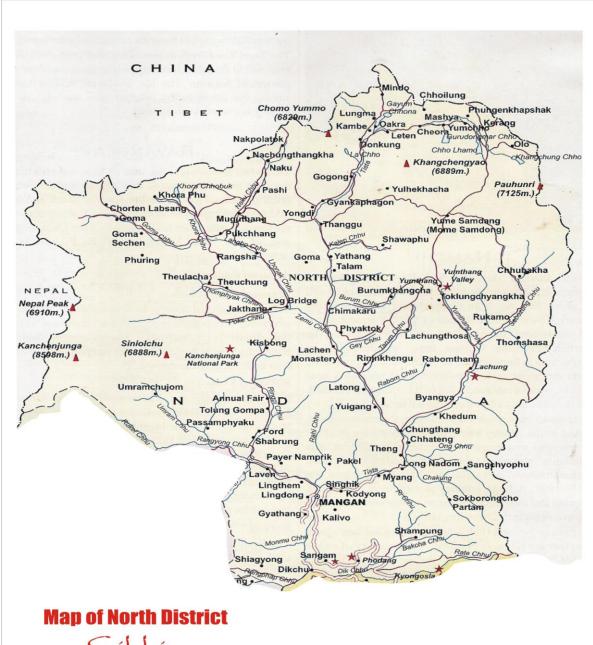
# District Disaster Management Plan

(2016 - 2017)



Name of the District: Mangan, North Sikkim

Contact No.03592-234856



Sikkim

# PREFACE

North district is a land of rivers, rivulets, drainages and agriculture is its predominant occupation. This district has been experiencing Natural Calamities since times immemorial. Hailstorms, Inundation of land by flash floods and severe landslides during monsoon season and earthquake are common features of this district. Besides, continuous torrential rain coupled with thunder storms add to the miseries of the people. There is constant worry at all levels to fight against these adversities.

As it is said that prevention is better than cure, certain remedial measures have been spelt out in this booklet of planning for the guidance of all concerned. The problems have been discussed in details this plan to grapple with the probable contingencies arising out of landslides, heavy rainfalls etc, from time to time. The basic objective of this action plan is to ensure safety of the lives and properties of the people and domestic animals during disasters. The **District Disaster Management Plan** (DDMP) which outlines the measures to be taken in the event of any natural or man-made disaster during the year 2016-17 has been prepared on the past experiences. The Plan deals with Risk Assessment and Vulnerability Analysis, Identification of Disaster Prone Areas, Response Structures, Inventory of Resources, Standard Operating Procedures, Directory of Institutions and Key Individuals, etc. The Plan is prepared to help the Collector & District Magistrate and the District Administration focus quickly on the essentials and crucial aspects of both Preparedness and Response

It is hoped that all concerned will rise to the occasion to ensure that lives and livelihoods, during Natural Calamities like earthquake/landslides/Flash Flood/heavy rainfall, get adequate assistance to get rid of their sufferings and also to ensure that precautionary measures are taken so that people feel safe.

Shri. Karma R. Bonpo, IAS Collector-cum-District Magistrate North District, Mangan

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ANNEXTURE I School Building as Safe Shelter

ANNEXTURE II POLICE STATION along with wireless system

ANNEXTURE III

Public Distribution System, Traders, List of NGOs, Financial Institutes

#### **CHAPTER-I**

### **MULTI-HAZARD DISASTER MANAGEMENT & RESPONSE PLAN**

### 1.1 Introduction:

At the very outset, disaster refers to a serious disruption of the functioning of a society, causing widespread human, material, or environmental loss, which exceeds the ability of the affected society to cope using its own resources. To put it in other words, it is the occurrence of a sudden mishap/calamity/grave occurrence that disrupts the basic fabric and normal functioning of a society (or community).

Types of Disasters: Natural Man Made

Earthquake Road Accident Flood Rasta Roka

Heavy Rain Communal Violence

Drought Riots

Landslides

Pollution Forest Fire

Chemical

Avalanches Railway Accidents

Pest Infection Heat Wave Hailstorm

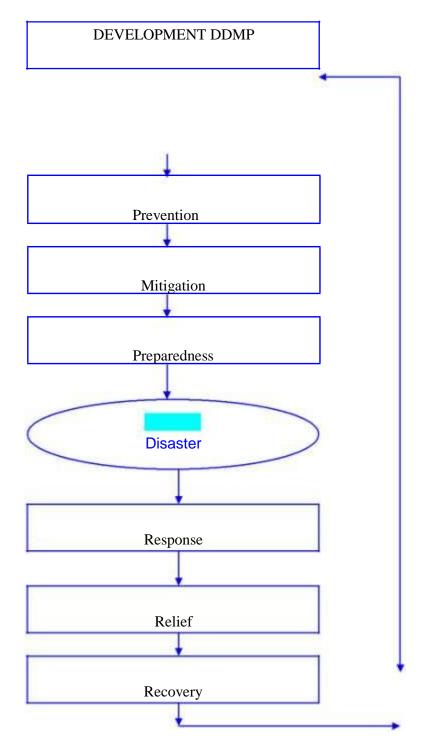
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#### 1.2Vision

North District, situated in the womb of Mount Kanchandzanga has always been at the centre stage of natural calamities like Landslides, Earthquakes, Avalanche, Flash floods, Heavy Rainfall, etc. Keeping in mind these frequent disastrous happenings in the district that causes major setbacks to lives, livelihoods and property (both movable and immovable), the District Administration felt the urgency of the need of staying prepared to face these adverse situations well in advance. The devastation caused by floods and cyclones has posed a challenge before the administration to rethink and redefine the preparedness and the mitigation strategies to analyze each and every decision making process to gear up the rescue and restoration during such situations as well as building up the capacity to face further calamities in future. The District Administration has realized the necessity to compile a plan to prevent/minimize the loss and also to facilitate faster recovery during an emergency of all kind. This booklet is more of a guidebook, which can help the administration, remains better prepared for disasters to safeguard lives, livelihoods and property.

In broadest terms, the vision of the plan will be - good communication, authentic and accurate database, documented and rehearsed to be activated in the shortest possible time with minimum simple orders and procedures ensuring active participation by the administration, communities and volunteers at all levels, making optimal utilization of human and material resources with no gaps or no overlaps to prevent/minimize loss to lives and property and to ensure fastest restoration of the situation.

# **Chart Representation of the DDMP:**



#### 1.3 Rationale

North District, Mangan lies in proximity to the hilly terrain, it is mostly affected by the Landslides, Earthquake Hail-storm, Flash flood, Drought and Whirl wind etc. Nevertheless the peculiar traditional Housing structures especially in rural areas are more vulnerable to landslide during rainy season. Keeping in mind these frequent disastrous happenings in the district that cause major setbacks to lives, livelihoods and property (both movable and immovable), the District Administration felt the urgency of the need of staying prepared to face these adverse situations well in advance. The devastation caused by various disasters has posed a challenge before the administration to rethink and redefine the preparedness and the mitigation strategies to analyze each and every decision making process to gear up the rescue and restoration during such situations as well as building up the capacity to face further calamities in future. The District Administration has realized the necessity to compile a plan to prevent/minimize the loss and also to facilitate faster recovery during an emergency of all kind. This booklet is more of a guidebook, which can help the administration, remains better prepared for landslide and earthquake to safeguard lives, livelihoods and property. Based on the past experiences, to combat natural disasters, the rationale of an effective and realistic District Disaster Management Plan was felt. A comprehensive DDMP will strengthen the efforts of the District Administration.

# 1.4 Objectives

The objectives behind the preparation of the District Disaster Management Plan is

- □ To mitigate impact of natural and man-made disasters through preparedness at District, Block, Gram Panchayat and Village level.
- □ To provide effective support and resources to all the concerned individuals, groups and departments in disaster.
- □ To assist the line departments, block administration, communities in developing compatible skills for disaster preparedness and management.
- □ To disseminate factual information in a timely, accurate and tactful manner while maintaining necessary confidentiality.
- □ To develop immediate and long-term support plans for vulnerable people in/during disasters.
- To create awareness among the people about hazard occurrence and increase their participation in preparedness, prevention, development, relief, rehabilitation and reconstruction process
- ☐ To have response system in place to face any eventuality
- □ To affect or elicit the least possible disruption to the normal life process when dealing with individuals in disaster
- □ To ensure active participation by the government administration, communities, NGOs, CBOs and volunteers at all levels making optimal utilization of human and material resources at the time of disaster.

## 1.5 Perspective

A formal plan for managing disaster would include:

- Pre planning a proper sequence of response actions
- Allocation of responsibilities to the participant agencies
- Developing codes and standards operating procedures for various departments and relief agencies involved
- Inventory of existing facilities and resources
- Mechanism for effective management of resources
- Coordination of all relief activities including those of NGOs to ensure a coordinated and effective response
- Coordinating with the state response machinery for appropriate support
- Testing the plan including mock drills
- Defining levels of acceptable risk
- Monitoring and evaluation of actions taken during relief and rehabilitation

# 1.6 Strategy

The preparation of a Disaster Preparedness Plan involves the following steps:

Steps	What is to be	Who are to be involved	How it is to be done	
	done			
Ι	Review and Analysis	Collector, ADM, ADC (Dev), SDM BDO, RDA,  Panchayat Presidents,	<ul> <li>Past history of disasters to be discussed and documented</li> <li>Extent of severity and damage to be recorded</li> </ul>	
		Village community, NGOs/CBOs, Community/Village level workers	<ul> <li>The nature of the Warning issued to be analyzed</li> <li>The nature and extent of the rescue and restoration done, to be revisited</li> </ul>	
II	Situation Analysis	BDO, RDA, Field functionaries, Panchayat Presidents, Village community, NGOs/CBOs, Community/Village level workers	<ul> <li>Mapping the geography and topography of the risk prone areas, block-wise, GP-wise and village-wise</li> <li>Demographic details to be recorded</li> <li>Mapping of the habitation in the concerned areas</li> <li>The natural resources to be marked on the maps</li> <li>Listing all the livelihoods and properties</li> <li>The existing risk prone/ safe infrastructure to be marked on the map</li> </ul>	
III	Hazard Analysis	-do-	<ul> <li>Identification of all possible hazards in the area based on past experience and available records</li> <li>Identification of the most vulnerable areas with relation to threat to life, livelihoods and</li> </ul>	

			property
IV	Vulnerability Assessment	-do-	<ul> <li>Locations of the vulnerable areas are to be mapped separately</li> <li>Identification of the vulnerable people such as, the elderly, the disabled, children and pregnant women, families living in thatched houses, fishermen at sea (if any), ailing people, etc.</li> <li>Identification of property or assets which are likely to be affected, such as, cattle and other livestocks, kachcha houses, weak structures and other installations, crops, horticulture and plantations, etc.</li> <li>Identification of weak points on embankments (if any)</li> <li>Marking the drainage system in the concerned area</li> </ul>
V	Opportunity Analysis	-do-	<ul> <li>Identification of the existing resources which may help to reduce risks to life and property</li> <li>Identification of the safe houses and buildings for shelter and storage</li> <li>Listing the existing flood/cyclone shelters, if any</li> <li>Identification of the elevated and up-lands which can act as natural barriers to protect livestock</li> <li>Listing of the existing health and sanitation facilities</li> <li>Identification of safe routes for evacuation</li> <li>Identification of the sources of funds to carry out the preparedness activities</li> </ul>

### 1.7 Role of the District Administration

In anticipation of any disaster, the district administration has taken various precautionary measures. Functioning of the Emergency Operating Centre, Closure of past breaches in river and canal embankments and guarding of weak points, rain recording and submission of rainfall report, communication of Gauge reading, deployment of power, installation of temporary VHF stations, arrangement for keeping telephone and telegraph lines in order, storage of food stuff, arrangement for keeping drainage clear, agricultural/health/veterinary measures, selection of shelters, etc. have been properly planned. The government officials of different departments have been apprised of their duties for pre, during and post disaster periods. The BDOs, Panchayat Presidents, Executive Officers of Municipalities, Executive Engineers of Water Resources and River Development Department, CDMO, SP, CDVO and CSO have been requested to take all precautionary and preparatory measures and to remain alert to face the challenge of any disasters. The other government officials have also been apprised of their roles and responsibilities to be played during predisaster arrangement and during/post-disaster management. Every possible kind of cooperation from all the line departments has been sought for by the district administration in combating the severe natural calamities that may occur anytime.

# CHAPTER -II

# **OVERVIEW OF THE DISTRICT**

# 2.1 Locations, Area and Administrative Division

North District lies in proximity to the hilly terrain and in the womb of Mount Kanchandzanga; it is bounded by small Himalayas. Its altitude above the sea level is 3950 feet and is 65 km away from the capital, Gangtok. It is one of the biggest district in terms of its area in Sikkim. Its boundary touches with all three districts of the state and also have border with China and Nepal.

# **General**

Geographical Area:	4226 sq. KM
Population (Census 2011):	41023 (Male=24513
	Female=18841)
Male to Female Ratio:	1000:769
Literacy:	77.39%
Number of Sub-Divisions:	4
Number of Revenue Blocks:	45
Number of Gram Panchayats:	20
Number of Dzumsa:	2
Number of Panchayat Wards:	101
Number of Assembly Seats:	3

# Educational Information

## **Schools**

Number of Sr. Sec. Schools:	3
Number of Sec. Schools.	10
Number of Upper Primary Schools:	13
Number of Primary Schools:	29
Number of Lower Primary Schools:	22
Pre-Primary Centres:	2
Monastic Schools:	<u>9</u>

# Total Number of Schools: 88

# **Teachers**

Post Graduate Teachers:	21
Graduate Teachers:	87
Primary Teachers:	253
Language Teachers (Lepcha):	48
Language Teachers (Bhutia):	56
Language Teachers (Limboo):	1
Total Teachers:	466

# Health Information

Hospitals:

Primary Health Centres:

Chungthang) 19 (Lachen, Lachung, Shep-Gyer, Primary health Sub-Centres: Naga, Namok, Ramthang, Tinchim, Phensang, Kabbi, Singhik, Lum, Gor, Heegyathang, Lingdong, Pentong, Lingdem, Lingthem, Tingbong, Salim Pakel) Number of Doctors Chief Medical Officer: 1 District Medical officer Gyane: 1 RCH Officer: 1 Sr. District Tuberculosis Officer: 1 Medical Officers: 8 (Phodong-2, Passingdong-1, Chungthang 1, Mangan-4) Dentist: 2(Mangan1, Chungthang-1) **Religions Buddhist:** Monasteries: 20 Mani Lhakhangs: 47 Lhakhangs And Tshamkhangs: 6 Hindu Mandirs (Temples): 6 Christian Church: 2 **Other Information** Number of Town (Notified): 1 Number of Consumer Cooperatives: 10 Number of Multipurpose Cooperative Societies: 5 Major Cash Crop: Cardamom Major Rivers: Tista, Lachung Chhu, Chakung ChhuUmram Chhu, Yumthang Chhu etc. Paddy, Apple, Potato, Other Agricultural Products: Cabbage, Corn Major Tourist Spots: Kabi, Phodong, Mangan, Chungthang, Lachen, Lachung, Yumthang,

1 (Mangan)

3 (Phodong, Passingdong,

# Helipads

- 1. Ringhim Helipad- Mangan.
- 2. Pegong Helipad 88° 38' 55" E

27° 35' 40" N

3. Fhopho Ground 88 °38' 40" E

27 °36' 1" N

# 2.2 Salient Physical features and Land Use Pattern

The entire district is covered with hilly terrain track and the coastal belt of rivers like Teesta is very fertile for land cultivation. It has a total of 18,883.441 hectares of cultivated area. The classification of the type of land are:

### **Land Utilization Information**

Land Type	Area (Hect.,
Paddy Field	1349.852
Dry Field	7098.424
Barren	953.325
Orchard	80.78
Cardamom	9401.06
Khasmal	20461.79
Total Nos. of Plots	52160
Total Nos. of Holding	5800

### 2.3Forests

North District is one of the largest district in Sikkim with very less population. 52% of the area is covered by forestland in north district; only 48% of land is covered by population and crops. Most part of north district fall under Kanchandzanga National Park belt.

## 2.4Climate and Rainfall

Climate of the district is generally moderate with less humidity. May is usually the hottest month. Occurrence of large number of landslides is the regular feature of the district during the summer season i.e. May to August. December and January is the coolest month of the year.

# Rain Recording Stations:

Lotal No. of Rain Recording stations in the District - 6 (Six)

Location of Rain Recording stations:

Sl no	Sub-division	GPU	Station	Tel. no.
1	Chungthang	Chungthang	Chungthang	
	-do-	Lachung Dzumsa	Lachung	
	-do-	Lachung Dzumsa	Yumthang	
2	Mangan	Singhik Sentam	Singhik	
	_do-	Ringhim Nampa	Mangan	
		Tam		

-do-	Lum-gor-Sangtok	Dikchu	

### 2.5 Socio-Economic Features

Agriculture and cardamom cultivation are the two major sources of income in the district of Mangan, North Sikkim. Few percentages of people have small business. Some people in the Govt. service and other town-areas have sound business of hotels and restaurants. The district has got many tourist spots and religious places:

Sl.No.	Place	Altitude In		Distance (KM) From
		Feet	Gangtok	Mangan
1	Kabi Lungtsok	4800	24	41
2	Phensang	4700	30	35
3	Phodong	4500	39	26
4	Mangan	3950	65	0
5	Chungthang	5,600	95	30
6	Lachen	9800	122	57
7	Lachung	8800	116	51
8	Yumthang	12000	140	75
9	Thangu	13,500	150	85
10	Gurudongmar.	18000	183	118
11	Cholamu	18000	192	127

These places attract tourists and picnickers round the year. Income generated from tourists is also quite encouraging.

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8	Yumthang	12000	140	75
9	Thangu	13,500	150	85
10	Gurudongmar.	18000	183	118
11	Cholamu	18000	192	127
12	Donkaila Pass	18400		
13	Yumey Samdong	15000		

These places attract tourists and picnickers round the year. Income generated from tourists is also quite encouraging.

## 2.6Agriculture and Cropping Pattern

Out of the total area of 18, 883.441 Hect. of cultivable area, cardamom area constitutes 9401.06 Hect. It clearly implies the cropping pattern of the district which is apparently dominated by cardamom and rest of the area, is reserve by paddy, cabbage, potato, corn, apple etc.

# 2.7 River Systems and Dams

Major Rivers: Tista, Lachung Chhu, Chakung ChhuUmram Chhu, Yumthang Chhu etc.

# 2.8 Power Stations and Electric installation Running Power Houses

Slno.	<b>Power Houses</b>	<b>Installed Capacity</b>	Yr.of
		(MW)	Commission
1.	Meyong Power House	4.0	1993
2.	Lachung power House	.2	1992
3.	Tserten Power House	.1	1988

## **Power Projects Under progress**

Stage	Location	Capacity
1. Teesta Stage III	Mangan-Monpu	1200MW
(	Global Tender Floated)	
2. Teesta Stage IV	Singhik-Sentam	520MW
(Bid evaluation under way)		
3. Teesta Stage V	Dikchu- Balu Tar	510 MW
4. Sneha	Dikchu	96 MW
5. Panam	Upper Dzongu	300MW
6. Rabom Power House	Lachen	3MW

# 7. Himagiri

Sikkim Engineers Pvt. Ltd.

### 2.9Transport and Communication Network

The Principal means of transport is by road as the National Highway 10 runs through the district. The District headquarter has got two alternative roads other then NH10 i.e. via Dikchu road and Dzongu road to connect with capital and also with the neighbouring districts. Yet many blocks and Gram Panchayat Unit are not connected with road and hence connected through village footpath as the alternate means of transport.

# 2.10 Industries and Mines

The small cottage industries are available in North District, namely Chungthang Cottage industry and Lingdong Cottage industry.

#### **CHAPTER-III**

# RISK ASSESSMENT AND VULNERABILITY ANALYSIS

# 3.1 Disaster Specific proneness to Various Types of Disasters

TYPE OF HAZARDS	TIME OF OCCURRENCE	POTENTIAL IMPACT	VULNERABLE AREAS
Landslides	May -August	Loss of life, livestock, crop and infrastructure	Entire District Major landslide area: Namok Khola, Dikchu, Pazingreet, Entire Mangan, Singhik, Lanthey Khola,
			Meyong and Ritchum
Avalanche	July-September	Loss of life, crop, infrastructure and animals	Lachen, Lachung, Thangu, Yumthang, Keshyung (Dzongu)
Drought	November-January	Crop Loss, Water scarcity	Entire District
Hail storm	March-May	Loss of Life	-do-
Epidemics	Anytime	Human techuman lifeuse	Entire District especially in
Accidents	November-January	damage	Lachen and Lachung Dzumsa
Earth Quake	Anytime	Loss of Life, Livestock and Infrastructure	-do-
Heavy rainfall	June-August	Loss of crops,	-do-
Flash Flood	June-August	Loss of crops, damage infrastructures, houses, bridges etc.	-do-
		bridges etc.	

# 3.2 Disaster Probability

## Flash Flood:

During rainy seasons, all the major rivers in the district carry gallons of water pose potential threat of flood. Things get worse as the flood devastates the crops in the affected area and is also a source of epidemics.

### **Fire Accidents:**

Fire accidents present a serious problem to the houses in Lachen and Lachung D'zumsa in the district. This is mostly due to the peculiar housing pattern adopted in the D'zumsa. These houses have generally built of wooden planks made out of timber, bamboo and straw. They spring up in clusters. Any occurrence of fire destroys houses and properties thereby causing serious damage to the affected people.

# **Draught:**

Sometimes want of rain at the proper time either defers commencement of agricultural operations or affects growth of crops. Occurrence of drought is not so frequent in North district as it lies on the coastal belt of Tista river and furthermore the rivers are always full of water. Past occurrences show that the entire district is prone to draught.

# Earth Quake:

Though North district has never experienced any earthquake causing damage to lives or infrastructure, the possibility can never be ruled out as it can happen any time.

Month

Name of											
Disaster	Jan	Feb Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Landslides				-			-				
Avalanche						-		-			
Drought	<b>←→</b>										
Hailstorm				_							
Fire Accident	<b>-</b>									-	
Earthquake	4					n				_	-
Flash Flood					-						
Heavy rainfall					-		-				
Epidemic	200		1	_							1

# 3.3Ranking and Probability of Disaster Episodes in the District

Based on the previous disasters experienced by the district in the past, probability of Landslide ranks first. Accordingly the occurrence of other disasters such as Heavy rainfall, Flash Flood, fire accident, Hailstorm, Avalanche, drought, epidemic and earthquake as mentioned.

# History of Disaster and Probability of Disaster episodes in the District.

Sl	Types of	Year of	Area affected	Human	Crop	Househol	Infrastruc	Animals
no.	hazard	occurrence			affected	d	ture	
1	Avalanche	15-6-1997	Thangu	20 death	_	_	Base camp	_
				1 injured			destroyed	
2	Flash	31-3-1998	Lachung	_	_	_	Main	_
	flood						bridge	
							washed	
2	Y 1.1° 1.	1.	Transaction	01	C - 1	1 1 1	away	
3	Landslide	_do_	Toong	2 people killed	Cardam om	1 kacha house	_	-
				Killeu	fields	nouse		
4	Landslides	23-6-1998	Peneng		Cardam	Cracked		
-	Landshdes	25-0-1776	1 cheng	_	om	School	_	_
					fields and	building		
					standing	& 1 house		
					crops			
5	Landslides	26-6-1998	Lachung	1 injured	Cabbage	1 kacha	_	_
					field	house		
6	Accident	5-8-1998	Naga	1 killed	_	_		_
7	Lightning	26-6-2000	Phudong	_	_	_	_	2 cattle
	& heavy							
8	rainfalls Landslides	2000	Dogasinadana		Cardam			
8	Landshdes	2000	Paqssingdang	_	om	_	_	_
					fields			
9	Landslides	2000	Lanthey		Cardam		Sanitation	
	Landshaes	2000	Lantiney	_	Om	_	source,	<del>-</del>
							electricity,	
							transportati	
							on road	
10	Landslides	2000	Tingchim	_	_	4 no. of		
						Houses		
11	Landslides	20-9-2001	Mangan	_	_	Houses	_	_
			bazaar			damage		
12	Landslides	2001	Thieng	_	Cardam	2 houses	Electricity	-
					om		line	
12	Tondell de	2001	I /Mom ==1-:11:		fields	1 no -f	disrupted	
13	Landslides	2001	L/Mangshilla	_	Cardam	4 no. of	_	-
1.4	Fire	2001	Tingohim		om field	houses		
14 15	Hail storm	2001 2001	Tingchim Kabi,	_	_ Cardam	1 house	_	_
13	11aii Stoiiil	2001	Phensang,	_	Om	_	_	_
			i nensang,	I	Om	<u> </u>		1

			Chewang Phudong, Tumlong		fields			
	Heavy storm	26-11-2002	Chungthang division	-	_	_	Damage of power station	-
17.	Landslides	2002	Phudong	_	Cardam om field	1 house	_	_
	Landslides	2002	Rongong	-		2 houses	_	2 pigs & 2 cows
19.	Landslides	2002	Tumlong	_	Cardam om field	_	_	_
20.	Fire	2002	Namok	-	_	1 house	_	_
21.	Landslides	2002	Phamtam	_	Cardam om field	_	_	_
22.	Landslides	2002	Ramthang	_	Cardam om field	_	_	_
23.	Landslides	2002	Tingvong	_	Cardam om field	-	Disrupted draining water, electricity, roads.	
24.	Fire	2002	Sakyung	_	_	1 house	_	
25.		2002	Lingdem	-	Cardam om fields	1 house	_	_
26.	Heavy rainfalls	2-5-2003	Gairi goan	_	Cardam om field	1 house cracked	_	_
	Whirl wind	3-5-2003	Ramthang	-	-	Houses cracked	_	_
28.	Fire	2003	Lachung	_		2 houses		
29.	Landslides	2003	Lachen		_	2 houses		_
30.	Earthquake	2011	Entire North	46				

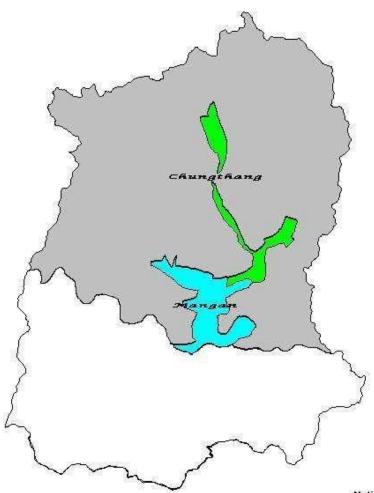
# **CHAPTER-IV**

# **MAPS**

# SIKKIM

# Map of North Sikkim showing its Sub-Divisions





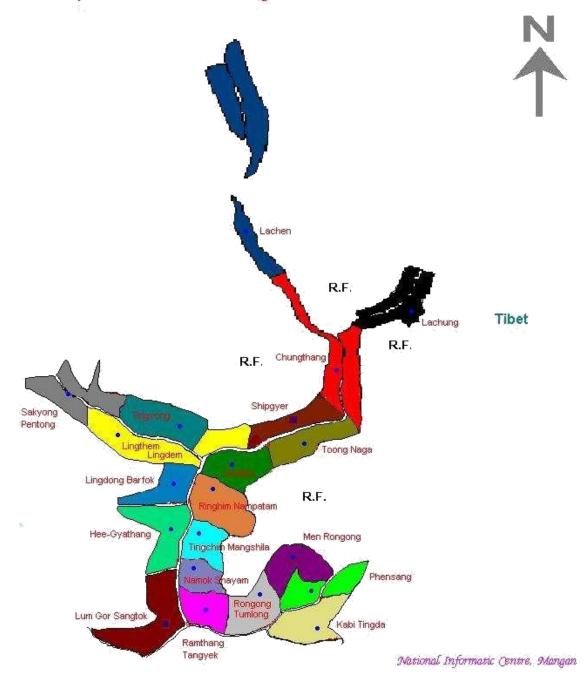
National Informatic Centre, Mangan



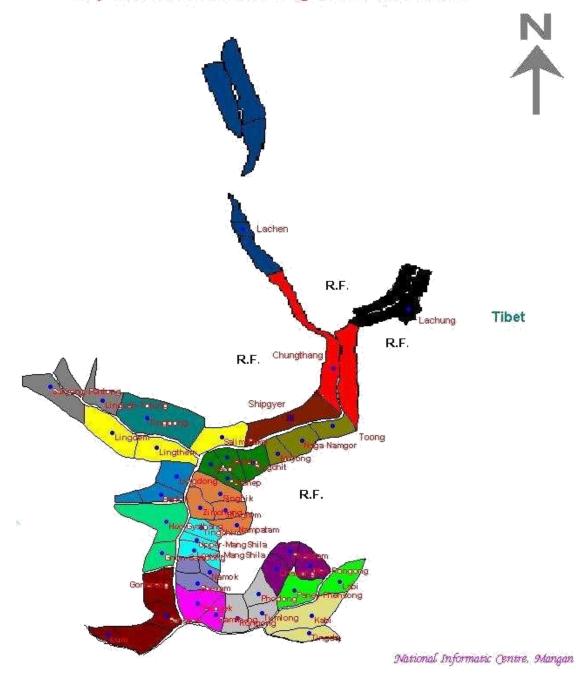


NIC, Mangan

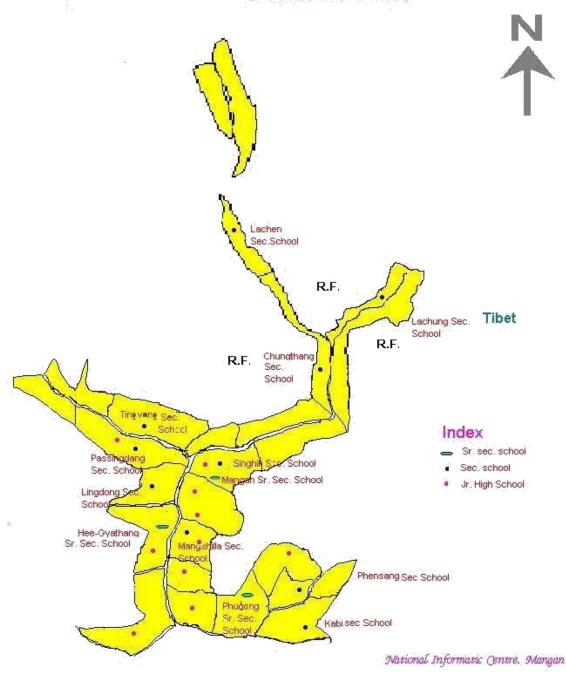
# Map of North Sikkim Showing GPU Wise Boundaries



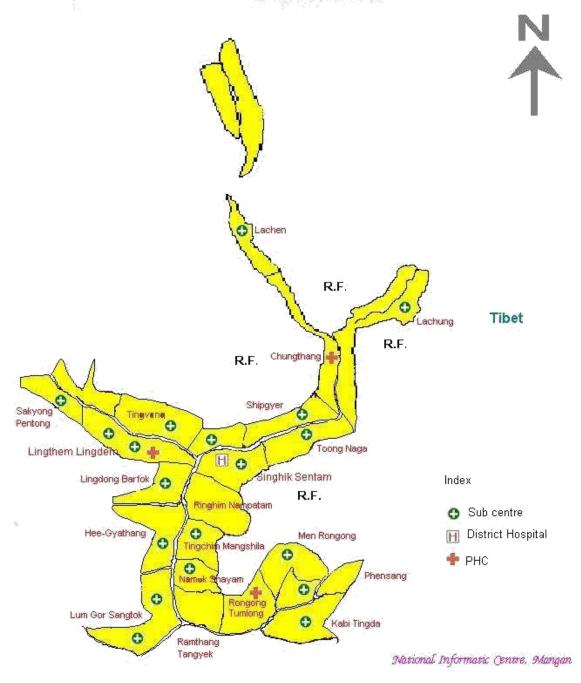
# **Map of North Sikkim Showing Blocks Boundaries**



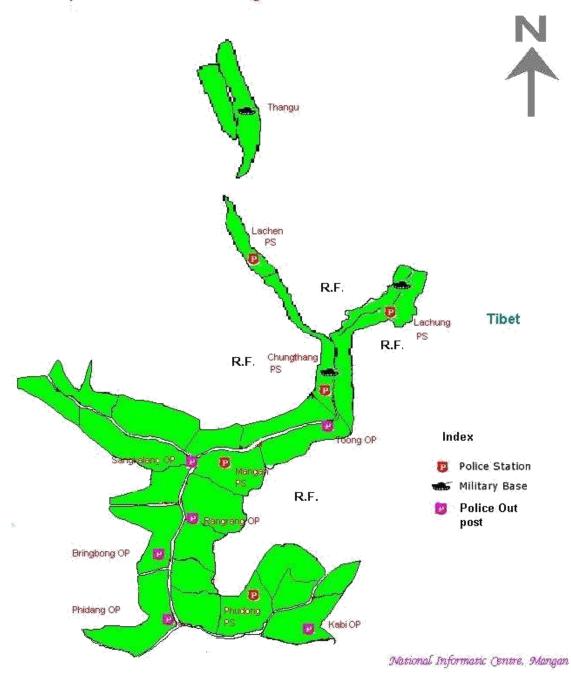
# Map of North Sikkim Showing Education Institutes



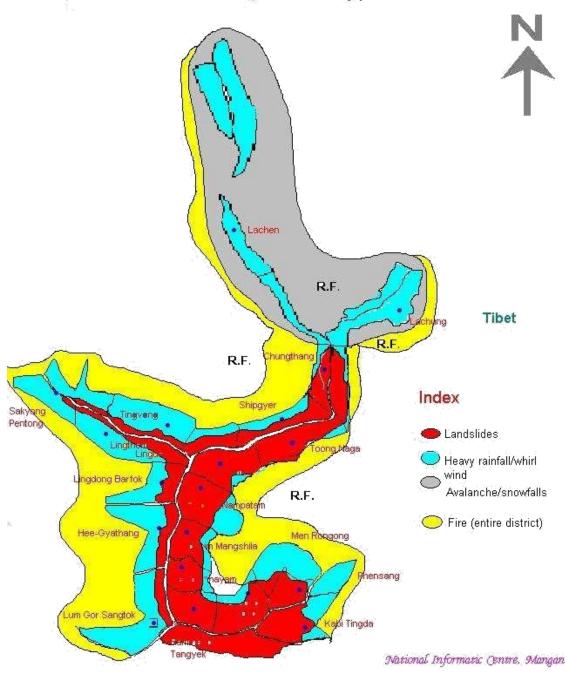
# Map of North Sikkim Showing Health Institues



# Map of North Sikkim Showing Public Infrastructure



# Map of North Sikkim Showing Vulnerability prone area



#### **CHAPTER-V**

# **CAPABILITY ANALYSIS**

### **5.1Inventories and Evaluation of Resources Analysis:**

Analysis and assessment of the resources and opportunities form the stepping-stone in the preparatory stage. Authentic assessments can make the planner aware of their tenacity and wants, so that they can equip themselves with all the required items and materials well in advance. The resources necessary for disaster preparedness and during and after disasters are listed below:

#### **5.1.1 Shelters:**

Accommodation for rescued/evacuated people has to be planned in advance. People living in low-lying areas have to be shifted to places at a higher elevation. Advance identification of such sites is an important element of disaster preparedness. Schools and other public buildings located at safe elevations should be inspected before the rainy season and strengthened. People are not prepared to move to distant locations away from their sources of livelihood. Institutions located at safe elevations have come in handy to provide shelter to people who have to be evacuated from danger risk prone areas. For this purpose there are altogether 9 shelters available in the district at the following places.

Name of the GPU	Name/Location of the Shelter
Ringhim	Community Center, Mangan
Nampatam	
	Power Guest House, Mangan
	Zilla Bhawan, Pentok
<b>Lachen Dzumsa</b>	Lachen Dzumsa Hall
<b>Lachung Dzumsa</b>	Lachung Dzumsa Hall
Chungthang	Gymnast Hall, Chungthang
SinghikSentam	Mangan Sr. Sec. School
Hee-Gyathang	Hee-Gyathang Sr. Sec. School
<b>Rongong Tumlong</b>	Phudong Sr. Sec. School

Apart from these, the secondary, JHS and other school buildings and forest guesthouse in different places can be used as temporary safe shelter.

## **5.1.2Storage ofFood**

Storage of food in accessible pockets is as vital as building shelters. All the Gram Panchayat Offices are used as storage points when need arises. The RDAs, Panchayat Secretaries and the storage agents in charge of the respective GP are the contact person for the G.P. offices. Adequate quantity of rice has been kept with each storage agent at each GP for distribution to the victims as immediate relief. These locations are used as storage locations for medicines, blankets. It has been decided to keep adequate stock of rice in the following places for distribution of emergent relief.

# Storage facilities with capacity:

Sl no	Type of storage structure	Location	Capacity	Contact person	Address	Contact No.
1	Food grain godown	Mangan bazaar	11,000 qtl.	Mr. Sonam Pintso Bhutia	Food godown Mangan.	9647875557
2	Food grain godown	Chungthang	500 qtl.	Mr. Palden Dzangpo	Food godown Chunghang.	9434179069
3	Food grain godown	Dikchu bazaar	500 qtl	Mr. Anil Khulal	Food godown Dikchu bazaar	9679009858
4	Sub food godown	Lachung	300 qtl	Mr. Palden Dzangpo	Food godown Chunghang.	9434179069
5	Sub food godown	Lachung	200 qtl	Mr. Palden Dzangpo	Food godown Chunghang.	9434179069

# **5.2** Capability Analysis of the Institutions/office in District:

All the departments at the Collectorate are connected with telephone (both external and internal), VHFs has to be installed at the Collectorate and at the Sub-Division offices. Disaster Warning System also has to be installed at various places in District. All the line departments have been directed to keep themselves ready as per the guidelines mentioned in this booklet. The NGOs and CBOs operating in the district have been asked for preparing area specific hazard plans and forming task groups involving local volunteers. Other institutional arrangements have been elaborated in the coming pages.

### **5.3 Communication and Media:**

Wireless and V.H.F. stations are the quickest means of communication of weather warning and other important messages on Disasters. Regular wireless, V.H.F. sets are available in all police stations. The list is given in ANNEXURE- II

## 5. 4 Administrative Preparedness for different Disasters

The following steps have been taken as a part of administrative preparedness to combat any eventualities during and immediately after the disaster:

- 1. Emergency Operating Centre is functioning round the clock in the district. ADM's Office, Offices of the CDMO, CDVO, District Agriculture, All Executive Engineers of Irrigation, R&B (PWD), RWSS, Rural Works Division, PHD.
- 2. Senior Level Officers from different departments will be assigned charges for all the disaster zones along with the RDAs of respective GPUs.
- 3. SDO Telegraphs / Telephones have been requested to keep the lines in order at the time of calamity
- 4. Rain recording stations installed in 6 particular areas in the district. Due to non-replacement of rain recording materials for last 6/7 years, proper measurement of rainfall could not be assessed in the district. Daily report of rainfall is being obtained from the Horticulture Department.
- 5. The Executive Engineers of Irrigation Department have been intimated to report Gauge reading of the rivers, daily during monsoon and to keep drainage clean
- 6. The Executive Engineers of Water Resource and River Development Department have been reported to repair all weak points/ breaches caused in the last flash flood and complete the left out work before the onset of monsoon, keep a close watch on the embankments passing through the habitations, remain alert with men and materials to face any eventualities
- 7. Executive Engineer, RWSS has been directed to repair / replace the defunct tube wells on war footing basis before the rainy season
- 8. The Superintendent of Police has been intimated to monitor the installation of Police Wireless Stations and make arrangements for army assistance.
- 9. Food & Civil Supply Officer have been directed by the Collector and District Magistrate to store adequate foodstuff at interior, vulnerable strategic and key areas for immediate relief.
- 10. NGOs have been identified GP wise and task force been formed in collaboration with the district administration to carry out relief operation, rescue and evacuation, etc.
- 11. CDMO has arranged Medical Relief Camps and doctors have been deployed for the purpose and the CDMO has been directed to keep the mobile medical team ready for the purpose.
- 12. Indent of different vaccines has been taken to protect animals against contagious diseases, medicines supplied to the field functionaries for routine treatment as part of veterinary measures.
- 13. HRDD and RM&D Department will remain in charge of safe Shelters
- 14. PWD Officer will look into the repairs of roads, bridges, concrete steel work and make other necessary arrangements as per requirement.
- 15. Review of pre-disaster arrangements has been carried out and the contingency plan for the district has been provided to all the head of the departments.

# 5.5 Disaster Specific Capability Analysis with the Human Resources and Skills

All the line departments such as Health, Veterinary, Irrigation, Police, Revenue, Electrical, PWD, RWSS, etc. are instructed to stay prepared with the equipments and manpower before the specified disaster seasons. They will give a list of their resources and requirements to the District Collector well in advance so that proper preparatory measures will be at place. The team leaders at district level have to prepare a list of task force for the rescue, evacuation and relief operation. Training should be conducted at the District, Block, GP and village levels to ensure that the awareness for disaster mitigation is built up among the communities. Mock drill should be conducted in anticipation of disasters to enhance the skills of the task force.

#### **CHAPTER-VI**

# PREVENTION AND RESPONSE STRATEGIES

Prevention is always better than cure. All the measures required to be taken before disaster (anticipatory stage), during the disaster (concurrent stage) and after disaster (post disaster stage) are incorporated into the integrated contingency plan which clearly specify details of the mechanism of coordination, monitoring and supervision of both prevention, rescue and relief operation. Analysis of vulnerability and classification of areas with reference to degrees of risks faced by the disasters areas are tasks which should precede the preparation of the Contingency Plan, which has to be tailored to meet the nature and magnitude of risk.

In the case of landslides, the management during the various phases falls within the purview of many Departments. These Departments are required to prepare a contingency plan spelling out clearly the arrangements for drafting additional personnel, their deployment, the chain of command, stock-pilling of supplies and monitoring. The landslides prone area has to be divided into convenient administrative units and the staff deployment and stocking of supplies and equipments has to be done with reference to those units.

Issue of landslides warning, protection of embankments guarding of weak and vulnerable points on various rivers and streams etc. are among the major strategies of the Water Resource and River development Department. Restoration of roads and salvaging of structures affected by flash floods have to be attended to by the Public Works Department, Public Health Department has to organize clearance of debris, disposal of corpses and carcasses. Its plan should also provide for prompt provision and repair of drinking water taps and supply of protected water to the people in the affected areas and also in the areas where temporary shelters are set up to accommodate people evacuated, rescued from landslide affected areas as well as in marooned areas.

People in the affected areas have to be immunized from water borne and other diseases. The water sources have to be disinfected. The person responsible for undertaking these works should be earmarked in advance and plans for constitution of mobile teams and establishment of field hospitals finalized.

The health of cattle in the affected areas is equally important. Provision of fodder, treatment of cattle and prophylactic measures are the important items that should figure in the Contingent Plan of the Animal Husbandry Department.

The immediate responsibility of Agriculture Department is to maintain necessary stocks of seeds and other imputes.

The tasks generally assigned to Revenue agencies include advance stocking of food grains and other essential consumer's articles and building materials etc. in areas, which are likely to be cut off by landslides. Positioning of power at strategic locations before the occurrence of disasters, selection of elevated sites and temporary shelters for accommodation of affected people who are to be evacuated or rescued and provisions of temporary shelters for these persons, supply of food, clothes, utensils etc. to landslides victims, assessment of house damages and distribution of grants for repair and reconstruction of houses and general assessment of the ever all damage.

The services of Police, Home Guards, National Cadet Corps and members of National Service scheme etc., are mobilized for rescue and relief operation. In the case of major disasters help of Army is available for rescue and relief operation. They have to be trained properly to stay ever ready for immediate response to such events

Training is also necessary for the people and local leaders so that they can respond to the disaster situation in an appropriate manner.

Following factors must be put together to minimize loss of lives, livelihood and property in disaster:

- 1. Event Prediction
- 2. Warning -
- 3. Risk Avoidance Action
- 4. Hardware -
- 5. Emergency Plan (District Disaster Management Plan or District Contingency Plan)
- 6. Activation of the Plan

## 6.1 Planning Assumptions based on Past Experiences

### **District Collector**

- Proper functioning of Emergency Operating Centre (District, Sub-Division) to be monitored
  - Areas will be cut off from the main route
  - Senior Level Officers should be deployed before the areas get cut off
  - Vehicles should be deployed
  - Installation of wireless systems and telephones to be ensured for communication
  - Storage of food (infant food, dry food) in vulnerable pockets to be monitored
  - Arrangements for keeping drainage clear to be made
  - Army assistance to be kept ready
  - Relief measures to be organized

### **Superintendent of Police**

- There will be communication problem
- There will be law and order situation in the affected areas
- Army and Civil Defense assistance will be required
- Routes might be blocked with carcasses
- There will be a traffic jam on the roads

### Revenue

- Local residents' workers or volunteers may initiate some search and rescue but will lack specialized techniques
- Spontaneous volunteers will require coordination
- Access to damage areas will be limited. Some sites may be accessible only through water or Air

### **CDMO**

- Outbreak of epidemic or medical emergency as secondary disaster
- Contamination of water and food, requirement of adequate drugs and medical accessories
- Unclean disaster affected site
- Disruption of communication and transport facilities
- Disruption of labs and hospital, urgent need for mental health crisis council for disaster victims
- Disruption of sanitation facilities
- Loss of power and missing people in shelters may increase disease and injury.

### **RWSS**

- Most of the water available will be unfit for drinking
- Existing storage bodies of water may be damaged and unusable
- There will be an alternative need (poly packs) of water to assist victims in rescue operation
- People to be informed of emergency supply of water
- Tankers and containers to be acquired for distribution of water
- Sources of possible water sources and unacceptable water sources to be identified
- Water to be distributed to camps and hospitals

Keeping in view all the past happenings and miseries a District Crisis Group has been formed with the following as members:

DISTRICT DISASTER MANAGEMENT COMMITTEE

Sl.No	Designation	Depart.	Phone Numb		Designation
1	Hon'ble Adakshya	Zilla Panchayat		9434030305	
2	DM/DC	LR&DM	234234 (O)	8116012999	Chairman
3	ADM/ADC	LR&DM		9933872873	Convener
4	SP	Police	234242	7797896219	Member
5	CMO	Health		9434117251	-do-
6	JD	HRDD	234203	9475544535	-do-
7	JD	Agriculture		9564857793	-do-
8	JD	Horticulture		9647879310	-do-
9	JD	Soil Cons.		7076737835	-do-
10	JD	AH&VS		9434179160	
11 12	DFO	Forest (T)		9494488499	-do-
13	DFO	Forest (L/U)			-do-
13	DFO	Forest (S/F)		9434127196	-do-
15	ACF	Forest (T)		9407182996	
16	ADC (Dev.)	RMDD			-do-
17	WO	Social Welfare.		7872886585	-do-
18	DPO	Zilla Panchayat		7872971552	-do-
19	DIO	IPR		9635821099	-do-
20	DIO	NIC	234215	9593746726	-do-
21	CDPO	ICDS		9434211733	-do-
22	DRCS	Co-operative		9494143983	-do-
23	DCSO	Food & civil Supplies		9474611141	-do-
24	AE	Buildings		9434117665	-do-
25	AE	Roads & Bridges		7872283433	-do-
26	AE	Power		9434184322	-do-
27	AE	RMDD		9002105167	-do-
28	AE	PHE		8967889988	-do-
29	AE	WR & RD		8159066257	
30	RTO	SNT		9474767859	-do-
31		Mtn Brigade			-do-
32		BRO		8509929942	-do-
33		UD&HD		9474352007	-do-

### **6.2Response Measures and Approaches**

- Guarding the Weak-points: There are some weak points in embankments, which require constant watch at the time of monsoon. The Engineers of WR & RD Department have been advised to take arrangement for deployment of their staff with required materials such sand bags, bamboo mats etc. to protect the weak points. The Supdt. Of Police, has been requested to issue suitable instructions to the Thana/OP Officers for deployment of Constables, Home Guards etc. at the weak points by obstruct cutting of embankments and roads by the miscreants. The Sub-Collectors should inspect important weak point, Panchayats well in advance who will offer their views about the adequacy of precautionary measures taken.
- **Keeping the drainage clean:** The Executive Engineer, WR & RD /Drainage Division, has been instructed for clearance of drainage channels/nalas for free flow of water before onset of monsoon
- **Health Measures:** For taking health measures in the event of disasters and any crisis the district has been divided in to 4 zones with 23 centers. District Medical Officer as well as other District Level Officers is kept in charge of each zone for effective supervision. A control room has been opened in the Office room of CDMO, Mangan. Advance disinfections of drinking water sources in the landslides, drought and epidemic prone areas and identification of drinking water sources in each village are in continues process.
- **Veterinary Measures:** The following arrangements have been made for preventive inoculation and treatment measures during disasters. The stock of life saving drugs and others equipments in the field centre/hospitals have been stocked sufficiently.
- **Agricultural Measures**: The Deputy Director, Agriculture has been communicated the guidelines in regard to Agriculture measure to be taken in advance for probable disasters. The guidelines in short is as follows: -

If damage is beyond 75% re-transplant the crop. Weeding and application of fertilizer are to be followed to maintain the growth of the crop as usual.

If partially damaged, do gap filling and follow recommendation. If completely damaged, re-transplant. Fertilize moderately wherever possible In lower tracts where there is possibility of further damage due to re-occurrence, do not transplant.

#### <u>Pests:</u>

Careful watch has to be ensured on pests and Diseases incidence on crop sown after any disasters. Advance stocking of pesticides and fungicides should be made in endemic areas with some sprayers and dusters for community approach to combat the rest & Diseases.

Field staffs should be kept alert during contingent situation to move about the affected areas, advise to farmers to protect the crop.

### 6.3Rescues and Relief

### 6.3.1 Rescue/Evacuation of marooned population

Rescue of people who are marooned in isolated patches poses a serious challenge during high folds. Rescue work is undertaken by the local Officers, Police force and local villagers and volunteers. At the time of major disasters, the help of army is also available.

# **6.3.2 Distribution of Emergency Relief**

When people are in acute distress due to severe natural calamities like high flood or strong cyclone, major landslides, it becomes impossible for the people to produce food. Their belongings are washed away and houses damaged. It becomes necessary to provide the affected people with fry dry food, clothing's, shelter and other necessities of life. This kind relief is categorized as Emergent Relief

Emergent relief is sanctioned irrespective of the consideration of status, caste or religion and at such a juncture have and have-nots are levelled down to the same position.

Emergent relief may include distribution of rice, dal, potato, salt, kerosene, match boxes and other bare necessaries of life including cooked food and clothing. It may include provision of improvised shelter with timber bamboo, tarpaulins, straw, polythene etc.

The Sub-Collectors have been authorized to sanction emergent relief for 3 days as per terms and conditions. Distribution of emergent relief for more than 3 days, he may seek order of Collector in the matter.

#### SCALE OFFER.

500 Grams per adult per day 250 Grams per minor per day

### SCALE OF FOOD STUFF OF COOKED FOOD (FREE KITCHEN)

		<u>Adult</u>	<u>Child</u>
Rice		300 Gms.	125 Gms.
Dal		50 Gms.	25 Gms.
Vegetable worth	Rs.	100.00	Rs.50.00
Fuel, condiments	Rs.	100.00	Rs.50.00
& Other expenses.			

### **FODDER**

Supply of fodder not exceeding one K.G. per animal per day up to maximum 3 days.

#### **6.3.3** Post disasters measures

It is necessary to take following post measures immediately after disaster subsides.

- ❖ Distribution of G.R. among old disable persons (proposal will be submitted by Sub-Collector after reviewing the situation.
- ❖ Distribution of house building grant after assessment of damage.
- ❖ Assessment of damage to public properties to be undertaken by different field officers.
- **!** It has to be examined if a special feeding programme is required to be undertaken.
- ❖ Immediate restoration of roads, are to be taken up immediately by different District Level Officers to normalize the day-to-day business of the people.
- ❖ It is to be examined if labour intensive works are required to be undertaken to provide labour in the affected pockets.
- ❖ The chief district veterinary officer will take immediate steps for disposal of carcasses to avoid epidemic in affected areas.
- ❖ The Chief Medical Officer will take immediate steps for disinfections of drinking water sources.
- ❖ Supply of pure drinking water to the people of affected areas is of great importance. Installation of temporary water taps at shelter points/camps supply of drinking water in marooned villages, shelter camps by tankers/disinfections of drinking water in rural areas.

### 6.4 Post-Disaster Evaluation and Measures

### 6.4.1 Assessment of Damage by other Department.

Any property if damaged by Natural Calamity. The Sub-Collector shall undertake assessment of damages with the help of District Level Officers. In case of other Deptts. having their own field officers, they should get the assessment done quickly by such officers. The assessment shall be done as speedily as possible soon after the abatement of Natural Calamity.

### 6.4.2 Assessment of Crop Damage

Dist. Agriculture Officers will have under take immediate survey of the damages as outlined below:

- a) Area covered under different groups and area damaged.
- b) Approximate loss of crops mainly cardamom, paddy, wheat and other major crops in quintals and value in rupees.
- c) Cropping pattern both for alternate crops *Rabi/Khariff*.
- d) Requirement of seeds, seedlings fertilizers pesticides etc. to be assessed.
- e) It is to be examined if seeds/seedlings can be supplied to the affected cultivators at subsidized rates.
- f) Availability of seeds, seeding etc. and procurement punch sets.
- g) Funds needed, funds available and not additional requirement thereof.

### 6.4.3Housing and Rehabilitation

- ➤ House damage in the wake of major disaster in the rural areas presents a serious problem. As these houses are generally mud built with thatched roof, the worst sufferers are the economically backward people who normally reside in vulnerable prone areas of these villages. Rehabilitations schemes are undertaken to provide housing to as many people as possible after a devastating disasters. Such houses are either to be located on the land allotted by the government or in their own safe land.
- ➤ The Panchayat President and the BDO of concern GP may visit the sites suitable for housing purposes in a village during normal times and if the people living in vulnerable prone areas are willing to shift to new sites proposed to be given under State Relief Code, they can obtain their willingness in writing and furnish such lists to the Sub-Collector and the Collector. A register for this purpose may be maintained for future use in office of all concerned Revenue Officers.
- The houses shall be built according to the requirement of beneficiaries and their pattern of living subject to financial limitation. The people must involve them selves in the housing programme.
- For this purpose, facilities available under Indira Awaas Yojana Schemes, REDRH etc.should be availed of.

#### 6.4.4 Restoration

### 6.4.4.1Restoration Programme

The restoration programme may involve two stages of works. In the first stage some repairs are immediately necessary to avoid further deterioration for making the works worthy for immediate use. Restoration of communication power supply, hospital facilities, water and sanitary arrangements are some of the programme, which may come under this category. The concerned Deptts. of Govt. may lay down priorities in the restoration programme having regard to the necessary and availability of funds.

# 6.4.4.2Restoration Work

After disaster the concerned Departments should take up restoration work on war footing to bring back normalcy in the affected areas. The concerned Departments will act as follows:

1.	Exe. Engr. of (R&B), Forest Department, RM&DD.	They will take steps for clearance of fallen trees and Departmental buildings from the roads for free movement of vehicles etc. Immediate repair of roads and bridges be taken up.
2.	Telephone Exchange Deptt.	Immediate restoration of Telephone and telegraph lines.
4.	Chief Dist. Vet. Officer	Removal and disposal of carcasses, vaccination, cattle treatment, supply of fodder etc.
5.	C.D.M.O.	Precaution should be taken that no epidemic is spread during disaster.
6.	Agriculture Deptt.	Treatment of saline inundation fields. Supply of seeds in area where crop has been damaged.
7.	R.W.S & S. Div.	Repair of damaged water source/ installation of damaged water pipeline.
8.	Power department	Immediate restoration of power lines and provide and

### 6.4.5House Building Grant

On receipt of the preliminary damage report from the Collector State Steering Committee meeting shall take steps for release of funds for payment as Ex-gratia grant to the eligible persons. The District collector has been authorized to sanction relief to the victims on the spot.

### **6.5 Submission of the Final Report:**

As per the State Relief Code the final report of the disaster shall be prepared by all line department and submit to the District Collector. All line officials as well as the Panchayat shall take immediate steps after the operation in providing the authentic information to facilitate the Emergency Operating Centre in preparing the final report. After the preparation of the final report, the EOC need to submit the same to Collector, ADM for necessary action and send the copy to SRC for record, future guide and preparedness. This report should contain all the information relating to losses, damages, restoration etc. This will help the district and the State Govt. in preparing proposal for developmental work to be undertaken in the affected areas and appraising different funding agent for granting fund for developmental works.

## **CHAPTER-VII**

# INSTITUTIONAL ARRANGEMENTS AT THE DISTRICT LEVEL

7.1 Responsibilities of the Collector, ADM, EO, SP, CDMO, CVDO and other Line Departments:

# 7.1.1 Roles and Responsibilities of the Collector and District Magistrate

		OTHER	DECOUDEE/
PHASE	ACTIVITIES	OTHER OFFICIALS TO	RESOURCES/ EQUIPMENTS TO
TIMBE	HOIIVIII	BE INVOLVED	BE PROCURRED
			FROM
Pre Disast er	system and arrangement of the temporary godo  Checking the Resources with other department such as Police, Fire, and of NSS/NCC/NYKS.  Preparing a list of vehicles/ambulance already deployed and/or to be deployed on hire	All District level officials.  All Sub collectors  Emergency Officer  All Panchayats. All RDA & field  functionaries DIPRO (District Information and Public Relation Officer.)  Dist. Fisheries Officer. Leading NGO/CBOs  NSS/NCC/NYK S Police,	
	during crisis.		

- Keep stock of road cleaning equipments and vehicles for relief operation.
- Assigning specific duties to different officers/Sr. Officers at Headquarters.
- Stay in constant touch with other line departments.
- Ensure proper functioning of warning systems & communication systems.
- Ensure Mock drill of the rescue and relief teams.
- Prepare a map showing the location of temporary shelter camps with accessibility.
- \* Identify Shelter/Temporary shelter in high elevated places and arrangement of tents etc
- Identify and mapping of Disaster (of all kinds)
   Prone areas
- Ensure formation of village level Disaster Management Committee through Block Development officers.

Dissemination of Warning:

- Receiving Warning from reliable sources and crosschecking them for authenticity.
- Disseminate warning to District level officials /Revenue field functionaries /PRIs & coordination with the Revenue control room
- Keep the EOC active round the clock.
- Distribute duties to the District level officials, Sub-collectors, Panchayats and Field functionaries.
- Arrange vehicles and public address systems for information dissemination.
- Establish coordination with the NGOs/CBOs and the village communities and assigning them duties
- Ask the people in the vulnerable areas to move to the shelters and to move their domesticated animals to safer places and to cooperate with the volunteers and other officials engaged in similar activities

🧩 Search, Rescue and Evacuation:

- To co-ordinate with NGOs/CBOs/Police for support.
- Arrangement & Deployment of vehicles etc. for evacuation
- Evacuate people from marooned areas and administer emergent relief.
- Organize trained task force members and Depute to marooned & Cut-off areas for evacuation.

All District level officials.
All Sub collectors.
All Panchayats DIPRO.
Dist. Fisheries Officer.
Leading NGOs.
Police.

VHF from the Police/ Mike-set /Batteries/Generato rs available in the district office/ from the Private parties on requisition

Police
Fire Brigade.
Leading NGO.
Panchayats,
field
functionaries
Programme Cocoordinators of
NSS/NCC

vehicle/rope/resc
ue kits and
trained resource
personnel from
SRC/SSC/Army
UNIT/Civil
Defense/ Hired
from the private
parties according
to the

During Disast er

	Deployment of police for maintain discipline and peace keeping during evacuation Mobilize people to move to safe shelters. Deployment of Police/Fire Brigade for search and rescue. Ensure proper utilization of the rescue materials. Provide Rescue kits at the affected areas		requirement
Dis	Keep a record of the affected area and people so as to account for the relief materials needed. Procure and transport of relief materials to affected areas Arrange free kitchen in the shelter camps & affected areas and assign responsibilities to officials for proper distribution  Coordinating with the NGOs/CBOs Encourage other voluntary organizations from outside for rescue and relief operation.  Distribute basic medicines and disinfectants to prevent epidemic  Ensure Health care activities by the CDMO in the shelter camps & through mobile  Units/Temporary Health in regular intervals  Ensure Cattle health activities by the  CDVO through Mobile units/Temporary Health camps in the affected areas  Ensure that there is enough storage of food and pure water in the shelters.  Monitor all the activities in the affected areas.	Sub-collectors. EO, CDMO, CDVO, ADC ( Dev.), Panchayats Field functionaries Medical Officers Police. PHD/RTO/ Leading NGO	FCI, Private stockiest, SRC, Director Health services, Director Animal Husbandry, UNICEF/ Other NGOs/INGOs

	<ul> <li>Short-term Measures:</li> <li>Formation of special task force with required equipments.</li> <li>Assign responsibilities for specific areas.</li> <li>Emergency cleaning of debris to enable reconnaissance.</li> <li>Remove fallen trees and branches from the roads to facilitate local relief work.</li> </ul>	All the district level officials /officers at district Headquarters/Pa nchayats, Field Functionaries.	Cranes, Road cleaning equipments, Water tankers, funds, vehicles, Gensets, Earth moving equipments, seeds, fertilizers, pump sets,
	• Form a work team and carry emergency tool		
Post-	<ul><li>kits.</li><li>Deployment of towing vehicles, earth moving</li></ul>		PHED,
Disaste	equipments, cranes,		RWSS, Deputy
r	<ul> <li>Construction of temporary roads.</li> </ul>		Director
	<ul> <li>Keep National &amp; other Highways clear from</li> </ul>		Agriculture.
	disaster effects - Assessment of damages.		
	<ul> <li>Temporary supply of food, drinking water and</li> </ul>		
	medicines to the shelters and affected areas		
	<ul><li>Arrange for safe shelter for animals.</li><li>Provide lighting facilities for shelter places.</li></ul>		
	1 Tovide lighting fuelfilles for sheller places.		
	<ul> <li>Deploy home guards and constables to</li> </ul>		
	maintain law and order <ul><li>Provide temporary arrangements for income</li></ul>		
	generation for the affected people		
	<ul> <li>Drought resistance short duration paddy seeds to</li> </ul>		
	<ul><li>be made available to farmers.</li><li>Encourage NGOs/INGOs to carry</li></ul>		
	out restoration and reconstruction works		
	<ul><li>Ensuring crop insurance</li></ul>		
	<ul><li>Supervise all the activities</li></ul>	CDC/D 11	Funds from all
	*Long Term Measures	SRC/Public Works	possible Sources
	Long Term Measures	Department/Wat	
	Immediate restoration of Road communication,. Irrigation system, Educational institutions, Govt. Institutions, Electrical installation, Drinking water supply, Construction of IAY/REDRH houses for the BPL families and massive plantation to maintain ecological balance.	er Resources /Education and youth services/PR Department/Fore st Department/Soci	
	<ul> <li>Meeting with district level officials /Officials at Head quarter and chalk out emergency plan with vulnerable areas and resource list</li> <li>Co-ordination meeting of NGOs /PRIs. &amp;Assignment of duties.</li> </ul>	al Forestry	

- Pre-positioning of staff in the likely cut off areas
- Arrange food and other basic requirement for emergency response.
- Collect information from different areas and to act accordingly.
- Co-ordination meeting with officials at Headquarters by 12 hours intervals and 24 hours intervals with the field officials.
- Regular collection of situation report of the risk and vulnerable areas from the officers assign for the purpose.
- Provision for administering emergent relief and the other basic needs
- Contact with SRC for supply of Temporary shelter materials.
- Keeping in touch with CSO for supply of food articles procuring from FCI/Whole sellers.
- Deputation of Volunteers to different probable affected areas.
- Helping the evacuees for returning to their houses.
- Immediate arrangement of free kitchen in the cut-off and inaccessible areas
- Relief distribution.
- Monitoring of Relief distribution.
- Provision of safe drinking water
- Provision of Medical facilities.
- Repair/Restoration of Roads and Bridges.
- Transportation of Relief and Human Resources

All District level officials/NGOs/C BOs/Sub-Collectors/ Officials of the District office/SRC Materials for
temporary shelter
procured
DFO/SRC/SSC/U
NDP/NGO etc.
Vehicles –
RTO/Private
agencies.
Medical
requirements from
CDMO
Cattle feed from
CDVO Volunteers

# 7.1.2 Roles and Responsibilities of the Additional District Magistrate (A.D.M)

PHASE	ACTIVITIES	OTHER OFFICIALS TO	RESOURCES/	REMARKS
		BE INVOLVED	EQUIPMENTS REQUIRED	
Pre Disaster	Preparedness:  Playing a second fiddle to the Collector in all aspects.	EO, POLICE, Field Functionaries, Panchayats	VHF, Telephone, HAM Internet	Comprehensiv e planning and proper situational
	Warning Dissemination:  Ensure proper dissemination of warning.  Ensure proper functioning of EOC.  Deployment of Office in charges of Collectorate in EOC round the clock basis.	Other officials of the dist office.	Connection	hazard analysis
During Disaster	Rescue and Evacuation:  Arrangement of Vehicles  Keep the Police and FirePersonnel ready.  Keep staffs at the EOC ready.  Deploy of additional staff if necessary  Distribution of Relief:  Proper allocation of relief materials to the affected areas	RTO/ POLICE, Field Functionaries, Panchayats Telecommunication, Other officials of the dist office.  NCC/NSS NGOs/CBOs	Vehicles, Police personnel, Other staffs VHF, Telephone, HAM Internet Connection	Things to be done on war footing and with careful monitoring

	<ul> <li>Allocation of officials for proper distribution of relief materials</li> <li>Supervision of relief distribution</li> </ul>		
Post- Disaster	Restoration:  Keep liaison with all line departments  Restoration of roads transport and communication systems  Collection of progress report or restoration and reporting to the Govt/SRC  Periodical visits to the affected areas to supervise the restoration works  Collecting the list of the affected people and property from the field functionaries, panchayats  Prepare a comprehensive damage report  Allotment of relief materials/financi al assistance  Monitor to make sure that everything is at its place	Reports on repairs/ restoration	Careful isting of beneficiaries and proper distribution

燕	
Coordination:	
<ul> <li>Coordination with line departments and civil society organizations</li> </ul>	
<ul> <li>Supervise     restoration     activities under     taken by different     voluntary     agencies.</li> </ul>	

# 7.1.3 Roles and Responsibilities of the CDMO

PHASE	ACTIVITIES	OTHER OFFICIALS TO BE INVOLVED	RESOURCES/ EQUIPMENTS TO BE PROCURRED FROM	REMAR KS
Pre- Disaster	<ul> <li>Preparedness and Warning Dissemination:         <ul> <li>Stock pilling of Life saving drugs/ORS packets/Halogen tablets on receipt of warning from the Collector/EOC</li> <li>Transmit messages to all PHCs to stock medicines and keep the medical staff ready</li> <li>Disease surveillance and transmit reports to the higher authorities on a daily basis.</li> <li>Vaccination.</li> <li>To obtain and transmit information on natural calamities from the EOC</li> <li>Ensuring distribution of areas of operation among the mobile team.</li> <li>Pre-distribution of basic medicines to the people who are likely to be affected</li> <li>Shift the patients who are in critical situation to the District Hospital</li> <li>Awareness messages to stop the outbreak of epidemics</li> <li>Conduct mock drills</li> </ul> </li> </ul>	CDVO SDMO SDVO Medical Officers of PHCs / CHCs. ICDS NGOs/CBOs Private Practitioners in the locality/First Aid Trainers	Medicines, Required medical equipments, First Aid kits Ambulances, Public Address systems, Mobile vans, Tents	

During Disaster	<ul> <li>Rescue and Evacuation</li> <li>Constitute mobile teams and visit the worst affected areas.</li> <li>Dis-infection of Drinking water sources.</li> <li>Opening of site operation camps</li> <li>Regular Health Check up at Shelter camp &amp; affected areas</li> <li>Assigning responsibilities to the ADMOs/ SDMOs for close monitoring of Health camps.</li> </ul>	-do- Rescue team, Volunteers at the Shelters, Police, Fire officers, Trained volunteers	-do-
Post- Disaste r	<ul> <li>♣ Restoration and Rehabilitation</li> <li>■ Organize Health Camps,</li> <li>■ Deploy mobile fully equipped and manned Medical vans</li> <li>■ Close monitoring of Health camps.</li> <li>■ Ensure adequate quantities of medicine/disinfectants</li> <li>■ Make sure that there is no out break of water borne diseases/Malnutrition</li> <li>■ Co-ordinate with the District Rehabilitation Committees, other line departments, NGOs /ICDS projects, village committee, PHD, RWSS, etc.</li> </ul>	-do-	-do-

# 7.1.4 Roles and Responsibilities of the SP

PHASE	ACTIVITIES	OTHER OFFICIALS TO BE	RESOURCES/ EQUIPMENTS TO BE PROCURRED	REMARKS
D	Dunandanas and Dissemination of	INVOLVED	FROM	
Pre-	* Preparedness and Dissemination of	Home Guard/ APR	VHF,	
Disaster	<ul> <li>Warning</li> <li>Receipt of Warning from the EOC</li> <li>Communication establishment with District and Sub-division/GP Control rooms and departmental offices within the division.</li> <li>Alert the team force for deployment at the time of calamity</li> <li>To issue directive to police field functionaries to co-operate with Rescue Teams.</li> </ul>	forces EO, SIs	Other improved telecommunication systems SP signal.	
During	Rescue and Evacuation:			No Scope
Disaster	<ul> <li>Clearance of roads and other means</li> </ul>			for

	of transportation			Complagana
	of transportation <ul><li>Traffic management and patrolling</li></ul>			Complacenc y
	of all highways and other access	-do-	-do-	3
	roads to disaster sites	NCC, NSS		
	<ul> <li>Make sure that discipline is</li> </ul>	Trained	Rescue kits,	
	maintained	Volunteers	Vehicles	
	<ul> <li>Assist district authorities for taking</li> </ul>	Local Youth	Equipments for	
	necessary action against hoarders,	NGOs/CBOs	clearance of roads	
	black marketers and those found		and other related	
	manipulating relief material		stuffs	
	<ul> <li>Co-ordinate with fire personnel.</li> </ul>			
	<ul> <li>Provision of security in transit camps/feeding centers/relief</li> </ul>			
	camps/cattle camps/cooperative			
	food stores and distribution centers			
	<ul> <li>Safe guarding of belongings of</li> </ul>			
	evacuees			
	START			
	* Distribution of Relief:			
	Maintain laws and order at the			
	Shelters and the relief camps			
	<ul> <li>Coordinate with military service personnel in the area</li> </ul>			
	<ul><li>Deploy officers/ police</li></ul>			
	personnel to record death cases			
	<ul> <li>Assist the community in</li> </ul>			
	organizing emergency transport			
	<ul> <li>Assist the District</li> </ul>			
	officials/NGOs in distribution of			
	relief materials.			
	<ul> <li>Provide escorts in transit of relief</li> </ul>			
	materials to the relief			
	camps/affected areas.			
Post-	*Short term Measures:		Vehicle	
Disaster	<ul> <li>FIR of the disasters, the damages</li> </ul>		communication	
	and the death cases.		systems.	
	<ul> <li>Assist in collecting damage</li> </ul>			
	statistics of private properties			
	and distribution of assistance			
	such as HB grant.			
	<ul><li>Maintain law and order</li></ul>			
	<b>☀</b> Long Term Measures:			
	<ul> <li>Close Coordination with district</li> </ul>			
	administration and local/external			
	NGOs in reconstruction and			
	rehabilitation process			
	<ul> <li>Assist the District authority</li> </ul>			
	whenever the need arises			
	<ul> <li>Periodical visits to the affected</li> </ul>			
	areas to ensure law and order			

# 7.1.5 Roles and Responsibilities of the District Emergency Officer

PHASE	ACTIVITIES	OTHER	RESOURC	REMARK
		OFFICIALS TO	ES	$\mathbf{S}$
D	- M 1		****	
Pre- Disast er	<ul> <li>Make sure that everything stays at place in the EOC.</li> <li>See to it that the DDMP and the contingency plan for disaster reach all the line departments.</li> <li>Disseminate the warning to the subdivision/GP offices and ask them to disseminate further to reach each and every household.</li> <li>Deploy staff of EOC round the clock</li> <li>Make sure that all the shelters receive enough water and food stocks in advance</li> <li>Establish contact with all the line deptts. Over phone, email, wireless, sat phone and VHF</li> <li>Procure all the required resources from all the possible sources.</li> <li>Regular update of information received from the blocks</li> </ul>	Field Functionaries, Panchayats, NGOs/CBOs, DCR Staff,	VHF from the Police/SS C HAM RADIO from SSC Mike-set /Batteries/ Generators available in the district office/ from the Private parties on requisition	
Durin g- Disast er	<ul> <li>Coordinate with all the line departments for rescue and evacuation.</li> <li>Check the stocks with the EOC and asking for more if needed.</li> <li>Distribute the relief materials to all the places.</li> <li>Check every bit of receipt and dispatch of relief items</li> <li>Establish round the clock contact with all the depts., Field Functionaries and Panchayats and with the shelters.</li> </ul>	Collector, ADM, SP, CDMO, CDVO, Field Functionaries, panchayats NGOs/CBOs, EOC Staff, NGOs, Community level	Food	
Post- Disast er	<ul> <li>Receive the list of beneficiaries from different Sub-division and GPs</li> <li>Crosschecking the list of beneficiaries to avoid fabrication</li> </ul>	Field Functionaries, panchayats, Beneficiaries		

# 7.1.6 Roles and Responsibilities of the Field Functionaries and Panchayats

PHASE	ACTIVITIES	OTHER	RESOURCES/	RRMA K
		OFFICIALS TO BE	EQUIPMENTS TO BE	
		INVOLVED	PROCURRED	
		11,102,122	FROM	
Pre Disaster	<ul> <li>Preparedness:</li> <li>Provide authentic information required by the EOC</li> <li>Prepare a record of previous disasters in the locality and analyzing the effects</li> <li>Prepare hazard maps of the GPs in minute details</li> <li>Map the cut off areas with alternate route map.</li> <li>Identify safe shelters in the maps</li> <li>Keep a List of storage Points &amp; facilities available, dealers of foodstuffs.</li> <li>Keep a list of vulnerable people and area and weak points on embankments (if applicable)</li> <li>Create a EOC at the respective level and assignment of duties to the staff.</li> <li>Pre-position of staff for site operation centers.</li> <li>Uninterrupted communication with the DCR</li> <li>Arrange alternative communication/generator sets, etc</li> <li>Form of GP/village level disaster committees and task forces</li> <li>Organize awareness camps at</li> </ul>	All the Field functionaries. Police/Fire personnel/RTO / Village/GP level task force/trained volunteers Local NGOs/CBOs	Vehicles, Police personnel, Other staffs VHF, Telephone, HAM Rescue kits Mobile Vans,	If possible prepare Contingenc y plan for all the Vulnerable GPs and Villages
	GP/village levels			

	<ul> <li>Crosscheck with the EOC for the authenticity of the warnings</li> <li>Arrange or requisite vehicle to disseminate received warning information's to the population of vulnerable / weak places</li> <li>Disseminate warning/coordinate with EOC</li> <li>Warn the people about probable affected areas</li> <li>Mobilize the people to leave for identified shelters with their domestic animals and personnel belongings.</li> </ul>			
During Disaster s	<ul> <li>▶ Rescue and Evacuation:</li> <li>Deploy Police/Fire Brigade for search and rescue.</li> <li>Co-ordinate with civil defense/NCC/NSS for rescue operation.</li> <li>Ensure availability of rescue materials.</li> <li>Guide the evacuees in the identified shelter places and arrange all common needs for them.</li> <li>Provide of rescue kits.</li> <li>Clearance of roads and water logging for restoring communication to affected GPs/Villages.</li> <li>Assist the District Team in every possible ways</li> <li>Coordinate with the NGOs/CBOs for rescue work</li> <li>Mobilize the local youth to help the rescue team</li> <li>★ Distribution of Relief:</li> <li>Keep the record of everything at the shelters</li> <li>Arrange of free kitchen in the shelter camps./worst affected areas.</li> </ul>	-do-	-do- Food stocks and other indispensable items	Things have be done or war footing and effectively

	<ul> <li>Deploy staff for proper distribution of relief materials</li> <li>Arrange communication system in the worst cut off areas.</li> <li>Ensure supply of safe drinking water &amp; health facilities in the affected areas/shelter camps.</li> <li>Coordinate with NGOs/Other voluntary organizations</li> <li>Restoration and Reconstruction:</li> </ul>			
Post Disaster	<ul> <li>Collect damage statistics of PR department properties /ICDS/school buildings etc.</li> <li>Ensure distribution of HB grants and other financial assistant</li> <li>Provide temporary income generation activities for the worst affected people</li> <li>Supervise Relief operation and restoration work in the affected areas.</li> <li>Restore the transport and educational institutions on high priority</li> <li>Help the local economic activities to come back to normalcy</li> <li>Provide of grants/loans for the local traders and shop-keepers</li> <li>Keep liaison with District administration and other line departments</li> <li>Ensure coordination with the RI and G.P/Village committee.</li> <li>Co-ordinate with NGOs/Civil society organization etc.</li> </ul>	-do-	-do-	Careful assessment to be done for facilitating the reconstruct ion and restoration works

# **7.1.**7 Responsibilities of other Line Departments:

DESIGNATI	DUTIES TO BE PERFORMED	DUTIES TO BE	DUTIES TO BE
ON OF THE OFFICER	IN NORMAL TIME.	PERFORMED AFTER RECEIVING 1ST WARNING	PERFORMED AFTER THE DISASTER.
Asst. Engineer, Electrical	He should see that the field staff checks the electrical line and replace old materials used in the power supply.	On receipt of the 1 <sup>st</sup> be communicated to all the subordinate staff.	Restoration of power 1.Hospital, Water supply 2.Control Room
	He should see that all had wiring in service connections are rectified.	He should see that all the vehicles under his control be kept in perfect	3.Live wires on ground should be removed promptly.
	He should enumerate the diesel sale available and his jurisdiction and keep it available.	Alert the entire staff to return their Head qtrs. and get	Damaged or felled electrical poles should be immediately replaced
	He should see that trees, branches etc. fall on electrical lines are out and removed.	in touch with immediate requirement.  They should give	and obstructions on roads should be got removed.
	The field staff should see that electrical supply in the places where landslides may be serve is cut off.	wide publicity that houses consumers should arrange lanterns and battery	
	The field staff should be in touch with local Panchayats and inform the situation at frequent intervals.	light for use in case of power is out off.	
	To provide Diesel generators to hospital water works. Control Room Collector's office in case of failure of powers.		
Assistance Engineer PHE	The branches to canal drain to be closed.  The Embankments should	1 <sup>st</sup> warning should be communicated to all the subordinate staff	Damages due to Hazards to Govt. properties lives of man and cattle etc.
	be Strengthened.  It should be checked whether the passage bridge and channels are in good condition.	and employees.  They should be alerted to check whether the canals and drains are in proper condition to	should be assessed and reported to Panchayats, Sub- Collector concerned immediately.
	The obstruction in the canals if any should be got removed immediately to be enabling free flow of water.	allow free flow of water.  The stations tour	

	The bocks and shutters of the canals are to be checked and satisfied that they are in good condition.  Water supply in to canals should be out off by closing the sluices.  The canals and drains should be free from obstruction	should take their duty places and be readily available.	
Fire officers	The Fire Engineers should alert and other vehicles should be kept in good working condition.  Materials required for use in emergency should be indented for and kept in reserve  Message received from public on disaster for help should be immediately attended.  Keep in touch with each of the other fire stations in the	The 1 <sup>st</sup> warning should be immediately communicated to fire stations.  The staff should be called on for duty. Full complement of the staff should be available for the vehicles should be obtained and kept in reserve.	Removal of collapsed houses, walls etc. should be attended  Persons involved in house collapsed should be promptly reserved.  Report on the relief activities, under taken should be promptly reported.
Executive engineer roads and buildings	Govt. buildings should be inspected and necessary repairs to be executed  Script for slides, pamphlets, and cultural programmers should be got prepared immediately.  Arrangements should be made to obtain poster and films by addressing the Director through the Collectors.	The 1 <sup>st</sup> warning should be communicated immediately to all subordinate officers.  Wide propaganda should be arranged.  The Sub-Divisional public relation officer should be available at their Head qtrs.& got	Photographs of damages should be taken. The field staff should convey formation regarding the quantum of disaster loss of property lives men and cattle.  They should be posted with up-to-date information and the information should be passed to

	Public address equipment should be obtained and kept ready.  The community Radio sets available in the villages	ready for disaster duty within short notice.  Ensures that all community Radio sets are in working condition.	the Collector immediately.
	The names of Hamlets where they are not available to be reported.  The public should be fully educated regarding the precautionary measures & after disaster through available media.  Specific duties should be assigned to the field staff.	Condition.	
	The field staff should proceed to the place of work allotted		
Regional Transport Officer	List of vehicles in condition to be requisitioned & kept ready.	Availability of petrol, oils should be ensured.	Electricity Deptt. for restoration.
Motor Vehicle Inspector  Civil Supplies Officers	The MVI/Asst. MVI will report before A.D.M. (Relief)  The Asst. Engineer & Jr. Engineers will remain alert.	The R.T.Os and M.V.Is should be asked to serve requisition orders on owners of vehicles for duty.	Roads and buildings for clearance.  Restoration of Telephone lines to EOC, Collector, Hospital, fire station S.P. and
Divisional Manager Telephone	Based on the experience on the previous disasters sufficient no. of vehicles should be procured and kept in District head quarters.	Soon after receipt of 1 <sup>st</sup> warning all the public call officers to be informed to instruct the village Panchayats	other offices as per the list appended.
	To contact all Sub-division Control Room and Collector's Office.	Volunteers for dissemination of warning in the villages.	

All telephone sets to be informed of disaster warning soon after the receiver is lifted from the Book as in the case of New years greetings and to request to telephone users to convey disaster warnings to other public.  Provision of vehicles.
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### 7.2 Disaster Management Committee at the District Level:

The District Disaster Management Committee (DDMC)/ is set up because of the frequent occurrence of disasters in the district. The primary aim of the committee is to have proper coordination among all the line departments. The Collector is the Chairman of of the DDMC. The District Disaster Management Committee exists to assist the Collector in

- o Reviewing the threats of disaster
- o Analyzing the vulnerability of the district to such disasters
- o Evaluating the preparedness and
- Considering suggestions for the improvement of the District Disaster Management Plan

### **7.2.1** RESPONSIBILITIES OF THE COMMITTEE

- ❖ To educate the public on different hazards and what protective steps should be taken
- ❖ To make arrangements for emergency action
- ❖ To effect evacuation from the vulnerable prone Villages when necessary
- \* Rescue and Rehabilitation
- Post disaster action and review

### **7.2.2** Timeline For Meeting and Membership:

The DDMC must meet at least once in six months i.e. in the month of April and September before the Disaster Season under the chairmanship of the District Collector to update the plan. For this one month's prior notice should be given to all concerned departments before convening the meeting. The President of the Zilla Parishad should be invited as a "Special Invitee" in the meeting of the DDMC. Collector should review the work of DDMC regularly. The Committee will meet almost daily till the emergency is over. The DDMC would consist of following functionaries:

Sl.No	Designation	Depart.	Phone Num	ber	Designation
1	DM/DC	LR&DM	234234 (O)	8116012999	Chairman
2	Adakshya	Zilla Panchayat		9434030305	Co-Chair
3 4	ADM/ADC	LR&DM		9933872873	Convener
5	SP	Police	234242	7797896219	Member
6	CMO	Health		9434179076	-do-
7	JD	HRDD			-do-
8	JD	Agriculture			-do-
9	JD	Horticulture			-do-
10	JD	Soil Cons.			-do-
11	JD	AH&VS			-do-
12	DFO	Forest (T)			-do-
13	DFO	Forest (L/U)			-do-
14	DFO	Forest (S/F)			-do-
15	DFO	Forest (W/L)			-do-
16	DDO	RDD			-do-
17	WO	Social Welfare.			-do-
18	DPO	Zilla Panchayat			-do-
19	DIO	IPR			-do-
20	DIO	NIC	234215		-do-
21	CDPO	ICDS		9434211733	-do-
22 23	DRCS	Co-operative			-do-
23	DCSO	Food & civil Supplies			-do-
25	AE	Buildings			-do-
26	AE	Roads& 7 Bridges			-do-
27	AE	Power			-do-
28	AE	RDD			-do-
29	AE	PHE			-do-
30	AE	Irrigation			-do-
31	RTO	SNT			-do-
32		Mtn Brigade			-do-
33		BRO			-do-
		UD&HD			-do-

The District Collector should include in the agenda of the District Coordination Meeting, the subject of updation of the district disaster management plan by incorporating the changes in names of officers, telephone numbers and addresses of the officers concerned. The District Collector should also take review of changes in other indicators pertaining to the district like creation of additional infrastructure, development projects, changes in inventories, etc. and incorporate these changes while updating the Plan. The members should substantiate/assist the Committee with all the updated information about their concerned areas of operation time to time.

## **7.3** Emergency Operating Centre (EOC)

This section is prepared to help the members of EOC to understand the structure and functioning of EOC. Following the important Three C's i.e. Command, Control and Communication for effective response in an emergency, it will be able to minimize the hardships of the community and improve the quality of the process of recovery. This control room will be able to provide timely, support and well thought —of interventions to the grass root staff as well as volunteers as it will be the hub of three C's.

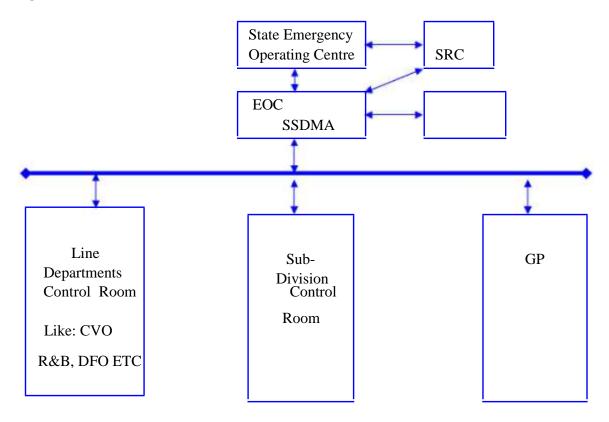
### 7.3.1 Purpose of the EOC

The Emergency Operating Centre under the control of District Collector will operate round the clock and will be the nerve center to

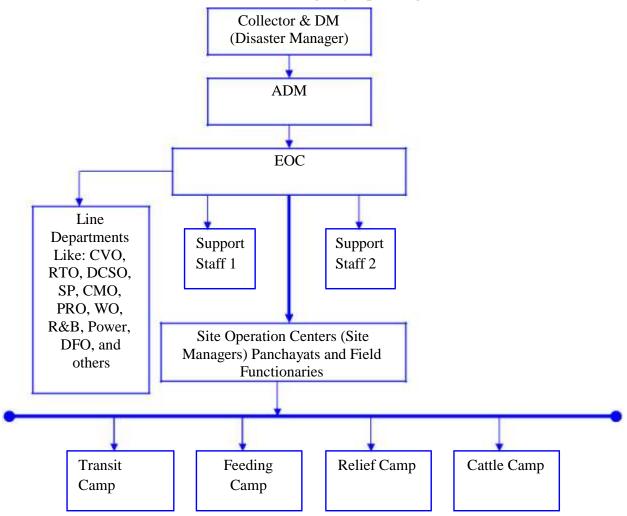
- Monitor
- Co-ordinate
- ❖ Implement the actions/activities for Disaster Management.

At a disaster time the EOC will operate under the central authority of the District Collector, exercising emergency power to issue directives to all departments to provide emergency response service. He will also co-ordination with the State Response Machinery like: State Relief Commissioner and Sikkim State Disaster Response Force for appropriate support and smooth flow of information. The EOC should be manned round the clock.

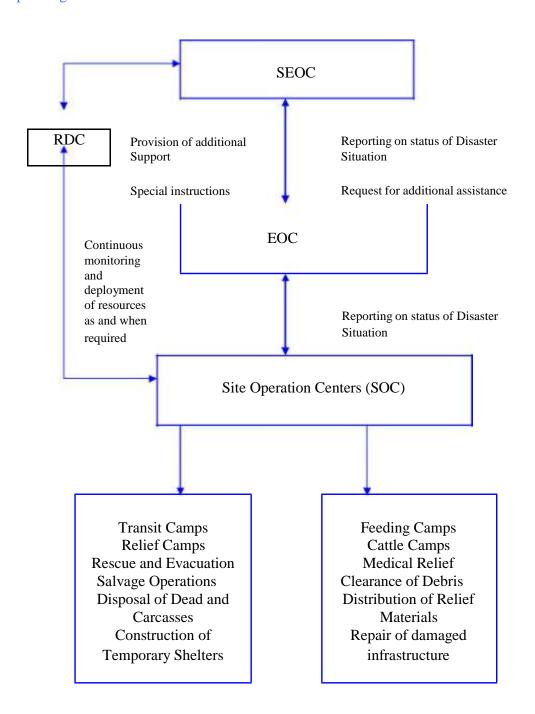
# **7.3.2 Information Flow Chart of the DCR**



# 7.3.3 Co-ordination Structure at District Emergency Operating Centtre



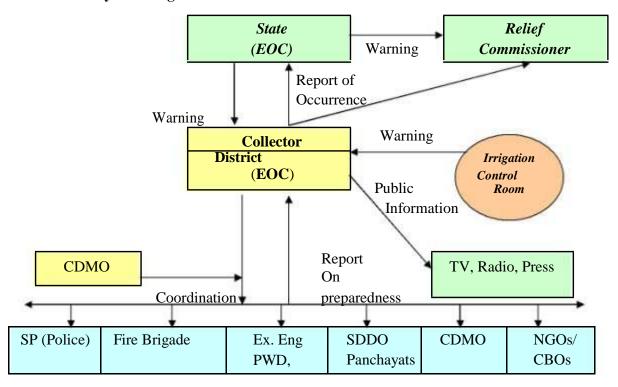
**7.3.4** Activity wise Flow of Information Among State Emergency Centre, District Emergency Operating centre and Site



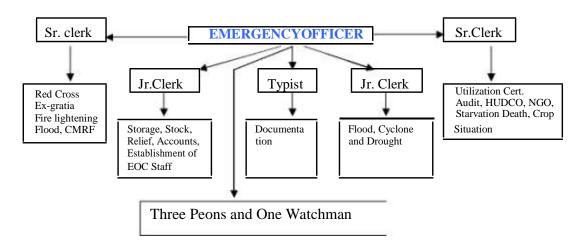
# **7.3.5** Scope of Work of the District Emergency Operating Centre

Time	Activities
Frame	
	• Ensure that all warning and communication systems, instructions are in
	working condition
	• Receive information on a routine and regular basis from the departments on
	the vulnerability of the various Gram panchayats and Villages to disaster
	• Receive reports on preparedness from the relevant district level departments
	and other departments, as per as the formats. Based on these reports, the DCR
	will forward the Preparedness Measures details on behalf of the Collector to
Time	the SEOC, Relief Commissioner and SSDMA
	<ul> <li>Upgrade and update DCP according to changing scenarios in the district</li> </ul>
Normal	update data bank and maintain an inventory of resources.
orr	<ul> <li>Update all information in the GIS.</li> </ul>
Z	<ul> <li>Inform SEOC, Relief Commissioner and SSDMA of</li> </ul>
	any changes including updating of data bank and annexure
	<ul> <li>Monitor preparedness measures including simulation exercises undertaken by</li> </ul>
	various departments.
	<ul> <li>Ensure proper dissemination of DCP at the district level, local level and</li> </ul>
	disaster prone areas.
	<ul> <li>Identify appropriate NGOs/Private Sector Organizations, which can be</li> </ul>
	assigned the task of community level preparedness.
	<ul> <li>Organize post-disaster evaluation and update DCP accordingly</li> </ul>
	<ul> <li>Prepare reports and documents on district level disaster events and submit the</li> </ul>
	same to SEOC, Relief Commissioner and SSDMA
ne	<ul> <li>Weather tracking and early warning dissemination</li> </ul>
Time	<ul> <li>To collect and transmit information regarding matter relating to natural</li> </ul>
	calamity.
er.	<ul> <li>Mapping of vulnerable areas</li> </ul>
Disaster	<ul> <li>Database on volunteers</li> </ul>
Dis	<ul> <li>Flow of information to SEOC in Relief Commissioner's</li> </ul>
, ,	office and SSDMA
	<ul> <li>District level training of officials and NGOs in emergency response</li> </ul>
	<ul> <li>Men and material management in emergencies with proper inventorization</li> </ul>

# 7.3.6 Early Warning Dissemination



### 7.3.7 Diagram of Responsibilities of the DCR Staff



# 7.3.8 Warning or Occurrence of Disaster

The warning or occurrence of disaster will be communicated to:

- → Chief Secretary, Relief Commissioner, Emergency Operation Centre
- → Office of the District Collector
- → All district level officials, DDMC, Municipality Chairman
- → The officials of the Central Government located within the district
- → Non officials namely Guardian Minister of the district, *Zilla Parishad* President, MPs and M.L.As from the district or affected area
- → Local units of the Defense Services

In the absence of the Collector, ADM or Sub-Collector will officiate and exercise all the powers and responsibilities of the District Disaster Manager.

On the receipt of warning, all community preparedness measures and counter-disaster measures would come into operation.

# 7.3.9 Suggested Performa for "In" Message

Date	Time	In	Receiv	Addre	Message	Copi	Mode	Instruction/	Rem
	of	Message	ed	ssed	transferre	es to	(WT/Tel/M	Follow up	arks
	receipt	Sr. No.	From	To	d to		essage of	to be done	
							receipt		

# 7.3.10 Suggested Performa for "Out" Message

Date	of	$\mathcal{C}$	d In	ssed From	Addresse d To	 `	Instruction/ Follow up to be done	Rem arks

### 7.3.11 Arrangements in District Emergency Operating Centre

The DEOC is equipped with

- Action Plans
- Vulnerability maps
- List of key contact persons during emergencies
- Database on resources of the district

During disaster provision will be made in the Collectorate for:-

- First aid and other basic medical relief for the staff
- A rest room with adequate facilities and
- A kitchen and lunch room

### 7.3.12Communication Room

The Communication facility is made in the room of next to the EOC that function as the Communication Room. The existing police VHF system continues to be in contact with the EOC.

In addition, the following facilities are available in the EOC

- Telephones
- Fax
- One PC with modem and printer
- Mechanical typewriter
- Generator
- Thermometer
- Fire Extinguisher
- A soft board to display information
- A hard board to note important information

# CHAPTER-VIII MITIGATION STRATEGIES FOR DIFFERENT HAZARDS

### **8.1 Short Term Measures**

When the disasters are inevitable, the only way is to mitigate its impact. This falls under the Short Term Measures like immediate relief, reducing the response time to avert any losses, provide the vulnerable and affected people with the basic needs, supply of minimum essential items to those who have lost their properties and movables, grant of long/short term loans at a concessional rate.

# **8.2 Long Term Measures**

The Long Term Measures to be followed include maintenance and repair of the embankments of the rivers and canals going through the district, construction of embankments, Protection of walls, Jhora Binding work, Plantations in landslides area, bank protection and watershed management, bio-mass production by the forest/horticulture department.

## 8.3 Sector wise Vulnerability Reduction Measures (Considering GP Plans)

Type of	Sub Sector	Mitigation Measures	Responsible	Time Frame
Sector			Deptt.	
	IEC Activities	Walling, posters, rallies, street plays, volunteers training, task force training	NGO selected by the DDMC	
	Road	Repair of vulnerable points identified by the	PWD, RD	
Infrastruct ure developme nt	Embankments	departments  Receiving the Height of the embankment points identified  Repair of Vulnerable points identified	Irrigation Department	
	Safe Shelters	Ensure maintenance of shelters	RM&D department, DI and CI of Schools	
	Communication	Ensure maintenance and good running condition of communication systems	Telecom and District Administration	
	Drinking water and sanitation	<ul> <li>Repair of the</li> <li>Damaged standpoints</li> <li>Check the</li> <li>Leakage of overhead tanks</li> <li>and pipes</li> </ul>	RWSS	
Health/ Animal Husbandry	IEC Activities	Walling, posters, rallies, street plays, volunteers training, task force training	NGO selected by the district and CDVO	

	Vaccination	Stock piling of vaccines	CDVO & CDMO	Normal time
	Training	Health care, sanitation, first aid	CDVO & CDMO	Normal time
Livelihood	Awareness	Walling, posters, rallies, street plays, volunteers training, task force training	NGO selected by the district and	
	Agriculture	<ul> <li>Drought         Resistant – short duration         paddy</li></ul>	Agriculture and horticulture department	Normal period
	Horticulture	<ul><li>Nursery raising</li><li>Insurance</li></ul>	Horticulture Department	Normal period
Insurance	IEC Activities	posters, rallies, street plays, volunteers training, task force training	NGO selected by the district and	During normal period
	Livelihood	Ensure insurance of livestock, crops, work sheds/workshops etc.	Agriculture, Cooperative Society	During normal period
	Life	Awareness	NGOs	During normal period

### 8.4Mock Drill

For the DDMP to be successful it is important that a mock drill of the plan be carried out under the in the presence of and under the observation of officer deputed from the other district and the District Collector. The mock drill should be enacted in the pre disaster season, twice a year after the District Meeting is convened. The mock rehearsal should start from the EOC. This will help in finding out the preparedness level of the district level functionaries.

### 8.5Plan Evaluation

The purpose of evaluation of DDMP is to determine

- The adequacy of resources
- Coordination between various agencies
- Community participation
- Partnership with NGOs

The ease of understanding and using the plan will also be important consideration. The plan will be updated when shortcomings are observed in:-

- Organizational structures
- Available Technologies
- Response mechanism following reports on drills or exercises

#### 8.6 Dissemination of DDMP

The responsibility for dissemination of the plan is vested with EOC at the Collectorate

In order for the DDMP to be effective it must be disseminated at two levels

- To the district authorities, government departments, NGOs and other agencies and institution within the district
- To general public

Effective dissemination of plan requires a well designed and focused training. Training activities are carried out under the guidance and direction of the Collector/Sikkim State Disaster Mitigation Authority (SSDMA).

#### 8.7 Post- Disaster Evaluation

A Post- disaster evaluation should be done after the withdrawal of relief and rehabilitation activities in order to assess

- The nature of state intervention and support,
- Suitability of the organizational structure,
- Institutional Arrangements,
- Adequacy of Operating Procedures,
- Monitoring mechanism,
- Information tools,
- Equipments,
- Communication System, etc.

The impact studies on the above operations for long term preventive and mitigation efforts are to be undertaken

Evaluation exercises may be undertaken to understand the perceptions about disaster response in terms of

- Adequacy of training
- Alert and warning system,
- EOC functions,
- Communication plans,
- Security,
- Containment,
- Recovery procedures,
- Monitoring.

#### 8.8 Plan Update

The DDMP is a "living document" and the Collector will update it every year before May, according to the format approved by SSDMA taking into consideration

- The resource requirements
- Updates on human resources
- Technology to be used
- Coordination issues

The soft copy of the District Contingency Plan or DDMP will be with the EOC, which will ease the process of updating the DDMP regularly. All the line departments at the district level should have a latest copy of the DDMP with them.

One day training programme on disaster preparedness would be organized by the Collector for the District Disaster Management Committee during the month of April/may every year

During Emergency Period distribution of area is done GP wise for checking shelter, go-down, communication and coordination

# CHAPTER-IX ROLE AND RESPONSIBILITIES IN PLANNING, RESPONSE, RECOVERY, TRAINING AND AWARENESS

	Planning	Preparedness	Response	Recovery	Training&
					Awareness
9.1 Zilla Parishad	*Meeting at regular intervals to update/modify the DDMP	* Following all the preparatory measures mentioned in the DDMP	*Helping the rescue team in all aspects	*Coordinating with the district/block/ GP level administration	Carrying out mock drills for the task force Walling posters and disseminating warning
9.2 NGOs/ CBOs/ Mahila Samitie s/ SHGs/ Youth Clubs	*Organizing NGOs according to their specialization to form response groups *Review and analyze past disasters *Prepare Community Contingency Plan in their area of operation	*Work closely with the community in identifying the risk population such as elderly and disabled, children, pregnant women, sick single womer and people residing on the seashore *Formation of Task Forces by involving their own volunteers and young boys and girls of the (17 to 25 years) village *Capacity building of the Task Forces	Force *Maintaining	with the District administration n and Sub-	loud speakers, etc. *Equipping the task force with proper training and providing them a contingenc y manual *Awarene ss building within the community * Mock drills for finding out the suitability / adequacy of preparedness

9.3 Religious Institutions  9.4 Public and private Corporations	_	*Staying aware of their responsibilities  *Keeping stocks for emergenc y needs	*Helping the district administration in relief activities  *Making the stocks available during emergency *Supplying the materials	*Coordination with the dist/Sub- division/GP level administration *Carrying out rehabilitation activities *Providing Counselling to morally distressed. *Direct contact with the Control room and the Shelters *Coordinate with district	Creating awareness among the people for preparedness
9.5 Home Guards/ NCC	Traffic control measures to be	*To assess and	to the Control Room  *To help the response groups in carrying out activities in a organized manner	Administration for rehabilitation *To help the District administration whenever needed	*Mock drills For finding out the suitability a adequacy of preparedness

facilities needed

#### **CHAPTER-X**

#### INFORMATION, EDUCATION AND COMMUNICATION

#### 10.1Plan Dissemination and Evaluation

The responsibility of plan dissemination is vested with the EOC, at the Collectorate. In order for the DDMP to be effective it must be disseminated at two levels:

- a. To the district authorities, government departments, NGOs and other agencies and institutions within the district and
- b. To general public

#### 10.2Dissemination of Other IEC Materials

The DI & PRO at the district level will carry on the dissemination of IEC materials and NGOs at the block and village level during normal time (selected during Post Natural Calamity Committee meeting, presided over by the ADM). The activities of these DI & PRO and NGOs would include

- → Walling.
- → Posters, Pamphlets and Brochure preparation and distribution
- → Rallies
- → Street plays,
- → Volunteers training,
- $\rightarrow$  Task force training, etc.

#### 10.3Training and Drills

The training programmes are organized for different levels of functionaries from district level officials, identified NGOs, Private Sector Organizations in order to equip them to extend training facilities to functionaries at blocks and village level as well as organize simulation exercises within the community.

The objective of full scale drill include evaluation of the following

- Practicality of the plan (structure and organization)
- ➤ Adequacy of communication and interactions among the agencies and the public
- > Emergency equipment effectiveness
- > Adequacy of first aid and rescue procedures
- Adequacy of emergency personnel response and training
- ➤ Public relation skills
- > Evacuation and count procedures
- ➤ Coordination with the CBOs / NGOs

#### 10.4Community Based Disaster Preparedness and Mock Drills

#### **Role of the Community**

- → First respond to disaster
- → Participate in preparedness programme
- → Sharing of disaster preparedness cost
- → Playingas pressure group / advocacy
- → Stockpiling and Coordination
- $\rightarrow$  Supporting communication System

The Community Based Disaster Preparedness should be done as per the following stages

- ⇒ Formation of Sub-Division Disaster Committee
- ⇒ Training of line department and volunteers
- ⇒ Formation of GP level Committee
- ⇒ Developing Community Contingency Plans in the Villages
- ⇒ Training of Task Forces
- ⇒ Periodic mock drills
- $\Rightarrow$  Updating

information

**Mock drills** are important in normal times as well as during the emergency. The mock drill and preparedness for disaster are considered as a part of police duty. Every six months, there should be a mock drill in all of the police stations of the district to make them alert / fit to cope with any situation. Similarly all police stations should have internal security scheme, based on which they should have mock drills and update it for safety measures as per requirement.

Besides a contingency drill should be enacted during the landslides/Heavy rainfall/Earthquake so that everyone knows what he/she should do and where he/she should go. It is advisable to have a mock drill at night during the rain, by cutting of the electricity in the village/ district (as per the time chosen for the mock drill at each level). This exercise will help learn possible problem that would be faced. These learned lessons could be utilized in preparing the contingency plan in a much-prepared manner.

#### 10.5 Setting Up of Disaster Volunteer Force – Identification and Training

An analysis of the situation of the village community forms the first task for preparedness. After analysis, the villagers would form different groups to carry on the activities for disaster preparedness. The motivated and willing male and female group members have to find out the roles and responsibilities of each group. The groups may be formed for warning, rescue and evacuation, water and sanitation, relief and food, damage assessment, shelter management, etc. This will form the **Disaster Management Teams.** For warning group, members could be young boys and girls of the village who will be trained to understand radio warnings and act fast to spread the warning throughout the village

The members for **Rescue And Evacuation Group** need to be physically strong (both men and women). This team can coordinate with the government to avail the facilities for rescue and evacuation, both in terms of rescue training, rescue infrastructure and equipment and ensuring the alertness of the rescue team of the government.

Both men and women members may look after the **Water And Sanitation** responsibilities at the shelters as well as outdoors

The members of the relief group collect, distribute relief materials such as food supply, utensils, clothes, kerosene, diesel, etc and coordinate all the relief requirements of the other action groups. Both men and women members have to be capable of interacting with the local authorities to ensure adequate supplies reach the village in time.

The members of shelter management group shall have more women members preferably SHG members and Anganwadi Workers (AWW). They will be at the shelters and safe houses looking after the evacuees' food, water and medication requirements. This group can also coordinate with the government authorities to ensure that health and sanitation facilities are available for extra vulnerable like women and children.

There can also be a First Aid and Medical Group, with equal numbers of men and women, those with some knowledge of nursing (such as trained dais and AWW/ANMs) will be preferable. The members have to go through intensive training and drills for first aid and medical responsibility.

Other such group might be the Patrolling group and the Liaison group.

#### **CHAPTER-XI**

#### **FOLLOW UP ACTIONS**

#### 11.1 STANDARD OPERATIONS PROCEDURE (SOP)

FOR DISTRICT EMERGENCY EOC, NORTH: 03592-234538 TELEPHONE/FAX: 91-03592-234234 COLLECTORATE. NORTH DISTRICT

START IMMEDIATELY ON RECEIVING WARNING OR INFORMATION ABOUT ANY OTHER EMERGENCY

- 1. **Officer in charge of EOC**: The EOC shall be in overall charge of the Collector. In the absence of Collector, ADM, SDM, SP, CDMO, ADC (Dev), Emergency officer or any other officer or staff on duty at that point of time shall remain in charge of EOC. The person in charge of EOC shall be personally responsible for implementing the SOP. He/She shall take all decisions as outlined below and sign for the Collector on all reports mentioned below. He/She shall not wait for orders from anybody.
- 2. **Officer and Staff in EOC**: Following staff and officers shall assemble in the EOC on getting any information from any source about any emergency. Apart from these, any other officer or staff who gets the information from any source will reach the EOC.
- 2.1. Collector, ADM, SDM, SP, CDMO, ADC (Dev.), Emergency Officer, Zilla parishad, DCSO, DIPRO and RTO, CDVO etc
- 2.2. All staffs of emergency section, representatives of development section, Stenos to Collector & ADMs.
  - 3. **Getting the EOC ready**: Following preparatory steps will be taken up for keeping the EOC functional during emergency.
    - 3.1. Shift two more phone lines to control room.
    - 3.2. Shift the police VHF of Collector's room to Control room.
    - 3.3. Keep a radio with new batteries ready.
    - 3.4. Hire 3 generator sets.
    - 3.5. Stock 2 barrels of Kerosene and Diesel for running the generator sets.
    - 3.6. Charge the battery of VHF set of control room and staff car.
    - 3.7. Charge the battery of inverter.
    - 3.8. Charge the satellite phone and test it.
  - 4. **Alert all field officers**: Field Functionaries, Panchayats, MOs, Police, Industries, Telephone, Agriculture, Forest, RWSS, R&B, ICDS, Irrigation, PHE, Municipality, MLAs, MPs, Station Director, All India Radio. DIPRO shall inform the media. Warning shall be issued in the following format:

Emerg	ency Warning Mes	ssage No. Dt.	
To:			
	(Space for	message)	
			Collector, North District

- 5. Call up the officers and ensure that they remain in headquarters.
- 6. Food and Kerosene:
  - 6.1. Check up availability of food and kerosene at GP Kendra, with storage agents and other inaccessible pockets.
  - 6.2. Direct the go-downs and FCI to remain open on all days, including Sundays and holidays, till situation gets back to normal.
  - 6.3. Start movement of food stock and K. Oil from district headquarters to GP headquarters.
- 7. **Health sector**: Make a rapid assessment of the following.
  - 7.1. Check up the stock of medicines, bleaching powder, and halogen tablets. If necessary, send immediate requisition.
  - 7.2. Start movement of medicines, bleaching powder, etc. to PHCs/CHCs.
  - 7.3. Ensure that medical officers are in place at the PHCs and CHCs through police stations.
  - 7.4. CDMO shall decide the locations of camps.
  - 7.5. All CDPOs shall be teamed up with the MO of PHC/ CHC with their vehicles and supervisors.
- 8. **Vehicles**: Requisition 2 small and 2 big vehicles immediately. Further requisition will be made as per need.
- 9. Close educational institutions after making an assessment of the seriousness of the emergency.
- 10. **Veterinary measures**: Immediately contact MD, tie up the supply of cattle feed. CDVO shall make assessment of vaccines and fodder availability.
- 11. **Air Dropping Zones**: Use the lat-long book for identifying the air dropping zones. Make an advance list of villages where air dropping may be needed.
- 12. Make a thorough assessment of relief items available in stock at different places.

13. **Functional distribution of work**: Following functional distribution of works shall be done. Each team will have staff and resources. The team leader will have full powers to take decisions

Transportation Management Team
Infrastructure Management Team
First Aid Management team

13.4. Information / and Office Documentation Team

Food and other relief items teamAnimal resource management Team

13.7. Search and Rescue Team

14. Message to public over All India radio should be specific. Apart from the warning, it should include the following three points.

14.1. Take shelter in nearest pucca building.

14.2. Keep cattle tied in open spaces.

14.3. Keep sufficient dry food.

- 15. Looking at the onset of emergency and after making quick preparations, convene Emergency meeting of important official and non-official agencies. Give them clear instructions.
- 16. Make a duty roster. Important officials cannot afford to break down together.

#### 11.2 General Advance Preparedness

### 11.2.1 Police Department

- Ensure functioning of the warning system.
- Formation of team
- Delegation of areas
- Formation of Zones/Sub-Zones

Carly Warning Dissemination	Yes	No
<ul> <li>Keeping close contact with EO</li> </ul>		
<ul> <li>Deploy personnel to guard vulnerable embankment points</li> </ul>		
<ul> <li>Alert Police officials to remain at the Head Quarter</li> </ul>		
Evacuation		
<ul> <li>Deployment of police staff at risk point</li> </ul>		
<ul> <li>Arrangement for the safety of property of the people</li> </ul>		
Arrange rescue kits		
<ul> <li>Support staff and volunteers during evacuation operation</li> </ul>		
<ul> <li>Assist fire brigade personnel in their efforts</li> </ul>		
Maintain law and order situation		
Search and Rescue		
Deployment of police staff at risk point		
<ul> <li>Arrangement for the safety of property of the people.</li> </ul>		
Arrange rescue kits.		
• Support GP staff and volunteers during evacuation operation		
<ul> <li>Assist fire brigade personnel in their efforts</li> </ul>		
<ul> <li>Maintain law and order situation</li> </ul>		
Relief Operation		
Giving escort or guard to the relief items stored or		
Transported		

# **Police Department**

#### **During Disaster**

Early Warning Dissemination	Yes	No
Collection of vital information		
<ul> <li>Inform EO after getting authentic message</li> </ul>	İ	
	İ	
Evacuation	i	
	İ	
Deployment of police staff at risk point	i	
Arrangement for the safety of property of the people	1	
Arrange rescue kits	i	
Support staff and volunteers during evacuation operation	i	
Assist fire brigade personnel in their efforts	i	
Maintain law and order situation	İ	
Search and Rescue	İ	
Search and Rescue	İ	
Deployment of police staff at risk point	İ	
<ul> <li>Arrangement for the safety of property of the people.</li> </ul>	İ	
<ul> <li>Arrange rescue kits.</li> </ul>	i	
<ul> <li>Support GP staff and volunteers during evacuation operation</li> </ul>	i	
<ul> <li>Assist fire brigade personnel in their efforts</li> </ul>	i	
Maintain law and order situation	i	
• Maintain law and order situation	İ	
Shelter Management	İ	
	İ	
Deploy Constables/ Home Guards to different shelters	İ	
Maintenance of law and order	i	
Arrangement of police personnel for the safeguard of the shifted marooned	İ	
families	İ	
	İ	
Relief Operation	İ	
	1	
Assist district administration in supply and distribution of relief materials.	1	
<ul> <li>Deploy police personnel near relief go-downs</li> </ul>	İ	
Escort relief carrier vehicle and personnel	1	
Maintain Law and order		

# 11.2.2 Revenue Department

- Holding of meeting in the month of May and October.
- Joint inspection.
- Formation of Zones/Sub-Zones.
- Review progress
- Provision/arrangement of rescue kit at risk prone area.
- Equipments to be ready
- Formation of team
- Delegation of areas

Early Warning Dissemination	Yes	No
Close contact with EO	_	
<ul> <li>Informing all concerned /public through revenue field</li> </ul>		
<ul> <li>Functionaries</li> </ul>		
Alert revenue officials to remain at the Head Quarter		
Evacuation	$\dashv$	
Propagation for evacuation		
<ul> <li>Arrangement for the safety of property of the people</li> </ul>		
<ul> <li>Arrange rescue kits</li> </ul>		
Search and Rescue		
Deployment of PRIs and other supporting staffs to assist in		
rescue operation		
<ul> <li>Propagation for evacuation</li> </ul>		
Arrange rescue kits		
	I	I

Revenue Department During Disaster

Early Warning Dissemination	Yes	No
Collection of on the spot inspection report from field functionaries		
Dissemination of day to day position about the disaster at all		
levels GP		
Evacuation		
<ul> <li>Search group go around to rescue the left over people in the risk</li> </ul>		
Areas		
Search and Rescue		
<ul> <li>Search group go around to rescue the left over people in the risk</li> </ul>		
areas		
<ul> <li>Reporting casualties/ missing persons</li> </ul>		
Maintenance of law and order being local magistrate		
Damage Assessment		
Assessment of houses collapsed		
Assessment of agricultural land		
Assessment of agriculture losses		

# 11.2.3 Health Department

- List out the staff with contact address
- Stock position of the sub-centre and PHC
- Prepare the plan and indent for stock
- Train paramedical staff/ ANMs / male health workers / volunteers/task forces/ Anganwadi workers for use and providing minimum health services to the community.
- Arrange for mobile health unit for inaccessible areas
- Health awareness campaign
- Re install telephone connection
- Arrangement of vehicle for uninterrupted mobility
- Repair of Sub Centers buildings
- Registration of Birth /Death and other vital events
- Dis-infections of Drinking water Sources thrice before flood season at least, one month before.

#### **Health Department**

#### **Pre Disaster**

Early Warning Dissemination	Yes	No
· c	168	NO
Medical and Paramedical staffs will be directed to join Head  Overtage in the least of the		
Quarter immediately		
• Settings of a Control Room and will be kept operational for 24		
hours		
<ul> <li>Delegation of duties /Area distribution</li> </ul>		
<ul> <li>Request CDMO and requisition of vehicle</li> </ul>		
<ul> <li>Meeting of Sector MO/Supervisors</li> </ul>		
Record keeping		
Evacuation		
Arrangement of medical help for the rescued/ injured persons		
Search and Rescue		
A		
Arrangement of medical help for the rescued /injured persons		
Medical Aid		
Deployment of staffs in their respective areas with medicines.		
Check the stock and collect the required stock from district		
office		
Arrange emergency room ready with all equipments and staff		
<ul> <li>Delegation of duty at PHC for 24 hours services</li> </ul>		
Meeting with the volunteers/ ANM/AWW and distribution of		
work as per the need		

# **Health Department**

# **During Disaster**

Shelter Management	Yes	No
Provision of medicine and deployment of paramedical staff		
<ul> <li>Provision of medical help to the needy</li> </ul>		
<ul> <li>Provision of chlorine Tablets and use of Disinfectants for the temporary latrines</li> </ul>		
Relief Operation		
Stock pilling of medicines /disinfectants in the risk prone areas		
<ul> <li>Maintenance of Stock Register</li> </ul>		
Health and Sanitation		
Disinfections of drinking water sources		
• IEC activities regarding safe drinking water, disposal of human and animal wastes		
<ul> <li>Check the stock and collect the required stock from district office</li> </ul>		
Arrange emergency room ready with all equipments and Staff		
Infrastructure Restoration		
Repair sub carters Buildings if necessary		

# **Health Department**

# **During Disaster**

Evacuation	Yes	No
<ul> <li>Arrangement of medical help for the rescued.</li> </ul>		
Inform to respective paramedical staff regarding evacuated		
people.		
Search and Rescue		
Arrangement of medical help for the rescued/injured persons		
Medical Aid		
Deployment of staffs in the cut off areas with medicine		
Check the stock and collect the required stock from district office		
<ul> <li>Delegation of duty at PHC for 24 hours services</li> </ul>		
<ul> <li>Meeting with the volunteers and distribution of work as per the need</li> </ul>		
Shelter Management		
Provision of medicine and deployment of paramedical staff		
<ul> <li>Provision of medical help to the needy</li> </ul>		
Carcass Disposal		
Registration of deaths and issuing of death certificates		
Distribution of disinfectants to the volunteers to dead bodies		
Relief Operation		
Provision of temporary medical relief centers		
<ul> <li>Distribution of medicines and halogen tablets</li> </ul>		
Treatment of the victims and daily report to PHC control room		
Health and Sanitation		
Disinfections of drinking water sources taking steps to check		
any possibility of spreading any epidemics in the community		
Infrastructure Restoration		
Report to CDMO of damaged health centers and supply of		
equipments		

#### **Health Department**

#### **Post Disaster**

Early Warning Dissemination	Yes	No
IEC activities regarding health and sanitation		
Medical aid		
Co-ordination deployment of outside medical/ paramedical staff and members of NGOs/ INGOs charitable organizations		
<ul> <li>Check the stock and collect the required from district office.</li> </ul>		
• Arrangement of medical help for the needy.		
Carcass Disposal		
Registration of deaths and issuing of death certificates		
<ul> <li>Distribution of disinfectants to the volunteers to dead bodies</li> </ul>		

# 11.2.4 Water Resources and River Department

- Holding of natural calamity meeting in the month of May and October
- Awareness generation
- Formation of Zones/Sub-zones
- Review progress
- Equipments to be ready
- Formation of team
- Arrangement of vehicle
- Delegation of areas

#### Water Resource and River Development Department

#### **Pre Disaster**

Early Warning Dissemination	Yes	No
<ul> <li>Suspension or cancellation of all leaves of instruction to the concerned person to join head quarter immediately.</li> <li>Arrangement of all-important telephone line and number in order</li> <li>Arrangement or requisition of Jeeps/ Trekkers to disseminate received warning information to the population of vulnerable/ weak places.</li> <li>Maintenance of record for information generation and dissemination.</li> <li>Co-ordinate with District Administration</li> <li>Deployment of concerned staff to update information regarding water level and velocity of flowing water in the rivers as well as about possible scorings, piping, seepages etc.</li> <li>Rain recording and submission of report to District Control Room.</li> </ul>		
Infrastructure Restoration  Identification of vulnerable points Repairing of vulnerable roads and embankments		

#### Water Resource and River Development Department

#### **During Disaster**

Infrastructure Restoration	Yes	No
Guarding vulnerable roads and embankments		
<ul> <li>Repairing piping and seepages found in vulnerable points.</li> </ul>		
Arrangement of materials for repair of roads and breaches in		
the embankment for post disaster operation		

# Water Resource and River Development Department

#### **Post Disaster**

Early Warning Dissemination	Yes	No
Damage assessment		
Identification of areas for clearance		
Delegation of team		
Monitoring of work		
Proposal to the government for repair and restoration		

# 11.2.5 RM&DD, R & B Department

- > Identification of weak-points
- Repair of weak roads/structures/canals before hazard season
- > Stockpiling of building material
- Arrangement of equipments for road clearance

RD & R & B Department

**Pre Disaster** 

Early Warning Dissemination	Yes	No
Suspension or cancellation of all leaves of instruction to the		
concerned persons to join head quarter immediately.		
<ul> <li>Arrangement of all-important telephone line and number in</li> </ul>		
order.		
Maintenance of record for information generation and		
dissemination		
Co-ordinate with District Administration		
<ul> <li>Clearance of roadside dead trees posing threat to</li> </ul>		
communication, life and electricity.		
Infrastructure Restoration		
Retrofitting and repairing of weak govt. buildings/structures		
• Repairing of road network		

#### RM&DD, R & B Department

**Post Disaster** 

Infrastructure Restoration	Yes	No
<ul> <li>Damage assessment and report preparation</li> </ul>		
<ul> <li>Repairing of affected/ damaged govt. building structure</li> </ul>		
<ul> <li>Clearance of debris to reinstall communication</li> </ul>		

# 11.2.5 PHE Department

- Site visit and report preparation
- Awareness generation for using bleaching
- Helping BDO during emergency
- Supply of drinking water during emergency
- Site selection and water test
- Collection and storing of K-018H2s test stripe, bottle, bleaching, halogen tablets,
- Area wise deployment of staff, fitter, Mason.

### **RWS & S Department**

#### **Pre Disaster**

Early Warning Dissemination	Yes	No
To inform all its staff members to report their respective		
headquarters		
Close contact with BDO		
Arrangement of water tankers		
<ul> <li>Procurement collection of water purifiers</li> </ul>		
<ul> <li>Stockpiling of accessories</li> </ul>		
Repairing the defunct tube-wells		
Shelter Management		
<ul> <li>Installation of emergency tube-well/tankers near the shelter sites</li> </ul>		
<ul> <li>Bleaching/disinfections of drinking water sources</li> </ul>		
<ul> <li>Supply of halogen tablets</li> </ul>		
Health and Sanitation		
Lab-testing of drinking water if necessary		
Bleaching of drinking water sources		
<ul> <li>Aware community regarding to use safe drinking water</li> </ul>		
Infrastructure Restoration		
Checking, repairing and construction of tube-wells		
Stock pilling of accessories		

#### **PHE Department**

#### **During Disaster**

Shelter Management	Yes	No
Supply of drinking water		
<ul> <li>Supply of poly pack containing safe drinking water</li> </ul>		
<ul> <li>Distribution of halogen tablets</li> </ul>		
<ul> <li>Informing community particularly the evacuees regarding use</li> </ul>		
of safe drinking water		
Health and Sanitation	_	
Lab-testing of drinking water if necessary		
<ul> <li>Sticking red and green stickers respectively for the polluted and safe drinking water sources especially tube wells</li> </ul>		
<ul> <li>Bleaching of drinking water sources</li> </ul>		
<ul> <li>Aware community regarding to use safe drinking water</li> </ul>		
Cattle Camps		
Supply of drinking water through installation of temporary		
provision of water tankers.		

#### **PHE Department**

#### **Post Disaster**

Shelter Management	Yes	No
Withdrawal of temporary water pipe installed near shelter		
sites		
Use of bleaching powder		
Infrastructure Restoration		
• Checking/washing/repairing of water pipe to put it back to		
its normal condition		
Cattle Camps	-	
Withdrawal of temporary water pipe		
• Use of bleaching powder		

# 11.2.6 Animal Husbandry &VS Department

- List out staff members with contact address Vaccination of cattle population
- Provision of supply of yearly medicines
- Arrangement of mobile health units in inaccessible areas Health awareness campaign
- Arrangement of vehicle for uninterrupted mobility

# AH & VS Department

#### **Pre Disaster**

Early Warning Dissemination	Yes	No
	168	NO
On receipt of warning ask all the staff to join duty immediately		
<ul> <li>Deployment of staff to the inaccessible areas</li> </ul>		
Regular maintenance of records		
<ul> <li>Co ordination with higher authorities</li> </ul>		
, and the second		
Evacuation		
Mobilize community to evacuate cattle population to the		
nearest elevated places with the help of the LI		
Search and Rescue		
Support villagers and farmers to help in rescuing trapped cattle		
<ul> <li>Provide first aid to the injured cattle</li> </ul>		
Health and Sanitation		
Distribution of disinfectants where cattle reside		

#### AH & VS Department

#### **During Disaster**

Early Warning Dissemination	Yes	No
Record keeping		
<ul> <li>Information dissemination to concerned quarters (Sub-</li> </ul>		
Divisional Vet. Officer)		
Maintenance of regular flow of information		
Search and Rescue		
Co-ordination with village volunteers and villagers to search		
and rescue trapped animals		
Medical Aid		
Provide first aid to the affected animals record keeping		
Cattle camps		
Supply of medicines and cattle feed record keeping		

#### **AH & VS Department**

#### **Post Disaster**

Medical Aid	Yes	No
<ul> <li>Vaccination immediately after the flood/cyclone and treatment to prevent epidemics</li> </ul>		
Carcass Disposal		
<ul><li>Collection and disposal of dead bodies</li><li>Maintenance of record</li></ul>		
<ul> <li>Issuing of certificates against dead animals insure</li> <li>Distribution of disinfectants, the place, where animals were buried or cremated</li> </ul>		
Medical Aid		
Provide first aid to the affected animals		
Record keeping		
Carcass Disposal		
• Issuing of death certificate for the insured livestock		
Health and Sanitation		
• Provision of vaccination, if possible.		
Record keeping		

# 11.2.7 Energy and Power Department

- Regular identification of faults
- Regular checking and repair of weak points/Transformers
- Stock piling of equipments/accessories
- Skill development training/orientation
- Precautions/protections near high voltage electric equipments installed
- Stopping illegal consumption of electricity

# **Energy and Power Department**

#### **Pre Disaster**

Early Warning Dissemination	Yes	No
<ul> <li>Alert all staff to get back to their respective head quarters</li> </ul>		
Retrofitting of weak points if found		
<ul> <li>Disconnection of electricity in the event of an emergency</li> </ul>		
<ul> <li>Arrangement of alternative energy sources such as generators</li> </ul>		
and fuel for generators		
Infrastructure Restoration		
Replacement of weak electric poles/wires		
<ul> <li>Checking and correcting private connections</li> </ul>		
<ul> <li>Stockpiling of necessary equipments and accessories</li> </ul>		

# **Power Department**

# **During Disaster**

Early Warning Dissemination	Yes	No
Disconnection of electricity to the affected areas	1	
	Ì	

# **Energy and Power Department**

# **Post Disaster**

Infrastructure Restoration	Yes	No
<ul> <li>Uninterrupted power supply to the Medical/GP Office and other Important institutes</li> </ul>		
Damage assessment and transmission of the same to higher authorities		
Quick installation/repair of damaged infrastructures		
Early restoration of power supply to the affected areas		

# 11.3 Checklist For Different Departments & Officers:

#### 11.3.1 Check List For DISTRICT COLLECTOR & DISTRICT MAGISTRATE:

PREPARED ACTION TAKEN	Y/N	REMARKS
Ensuring communication establishment of EOC with Sub-division		
Control Rooms / Line Dept. Control Rooms / Zones / Sub-Zones /		
Neighbouring District EOC / Police Control Rooms / SSDMA / SEOC /		
SRC.		
Test checking of receipt & transmission of messages.		
Ensuring Proper functioning of communication equipments or systems.		
Alternate communication arrangements in case of failure of one system.		
Training & Mock drill of officials designated for disseminating a		

disaster warning.	
Flow of information Up & Down as follows 1) EOC Sub-division CR G.P CR Villages	
2) Rev. Deptt. / SRC / Collector / DCR Line Dept C.R./ Police	
C.R / RTO. / CDMO / CDVO / DIPRO.	
Public address system to be kept ready along with vehicles.	
Highlighting Control Room Phone No's	
Preparing a database for Important Tel Nos. & Alternate Tel Nos.	
EOC to operate with shift (24 hours & 365 days).	
Battery/Charging sets to be kept charged with arrangements for stand by	
Battery sets.	
Detail report of the situation to be displayed for every ones information	
at DCR.	
Adequate warning mechanism to be ensured for evacuation.	
Officers at different control rooms to be designated as Nodal officer for	
evacuation.	
Co-ordination between Dist. Administration with NGOs / CBOs etc.	
Mapping of safe shelters serving Vulnerable villages.	
Identification of Mounds & Cattle sheds.	
Army assistance / Special task group to be pre prepared.	
Rescue groups to be Mock drilled.	
Co-ordination with Police force / Police arrangements / Fire brigade	
staff.	
Contact Person / Address / Telephone No. of different Private / Govt.	
Vehicle to be kept in advance.	
Organizing vehicles / ambulance for immediate assistance to the	
affected mass.	
Community assistance in road clearance.	
Passenger carrying buses / transportation etc. to be diverted away from	
Disaster sites.	
Areas to be identified & cordoned off.	
Public information centers activated.	
Gender / Old age issue must be taken care of.	
Ensuring advance stocking of resource for evacuation equipments like	
ladders, rope, petromax lights etc.	
Safe route / alternate route charts from / to weak & Vulnerable points.	
Evacuation routes not to be blocked for long time.	
Order of evacuation should be	
a) Seriously injured & sick	
b) Children, women, Handicapped, old age	
c) Able bodied.	
Petrol / Kerosene Oil / Diesel to be kept reserved in advance	
Ensuring supply of Food& Water	
An officer to be appointed as the relief officer.	
Provision for security in	
a) Relief receiving centers	
b) Transportation of relief	
c) Relief stored go-downs	
d) Distribution of relief	
e) Relief camps	
f) Free kitchen centers / Feeding centers	
g) Relief officials	
6/	

h) VIP's dealing with relief distribution	
i) Air dropping zones	
Order in advance for the requirements.	
Storage of materials in advance at the inaccessible pockets.	
Ensuring pre position of medical aids.	
Evaluating the depth of impact of disaster at different locations.	
Prioritizing the disaster sites depending upon the magnitude.	
Uninterrupted supply of relief materials to Relief camps / Multipurpose shelters.	
Provision for free kitchen / distribution of cooked food.	
Provision for transportation.	
Alternate route chart to reach the disaster sites / weak & vulnerable	
points.	
Arrangements for Trauma counselling facilities	
Initiating helps from local NGOs / CSOs / Anganwadi members	
Keeping an account of the list of private stockiest / Millers etc.	
Family pack should be made in advance.	
Type of relief materials to be finalized for different types of disasters,	
Ensuring MSL (minimum standard limit) at all the fair price shop /	
Wholesalers etc.	
Packed water to be pre stocked / Drinking water supply	
Public address system / Public information centre activated	
Precautionary measures through Leaf lets / Pamphlets.	
With SRC / SSDMA / RDC / Rev. Dept.	
With S.P. / CDMO / CDVO / DCSO / RTO	
With Irrigation / Line Departments.	
With Army Personnel's NCC / NSS etc.	
With Fire officer	
With Private Resource persons like Doctors / Engineers etc.	
With NGOs / CBOs / CSOs	
With neighbouring district HQ.	
With Student mass	
Road clearance.	
Eviction of Encroachments.	
Arrangements for alternate routes	
Identification of Causalities.	
Preparing reports on UD cases.	
Electricity restoration.	
Transportation / communication restoration.	
Water supply restoration.	
Normalcy restoration.	
Restoration of Educational Institutions.	
Weak & Vulnerable areas.	

# 11.3.2 Check List For S.P.

PREPARED ACTION TAKEN	Y/N	REMARKS
Ensuring communication establishment of Dist. Police H.Q. with P.S./		
O.P.s / DCR/Neighbouring Police H.Q's .		
Test checking of receipt of transmission of messages		
Ensuring Proper functioning of communication equipments or systems.		
Alternate communication arrangements in case of failure of one system.		
Flow of information Up & Down as follows		
EOCS.PP.S. / O.P's		
Public address system to be kept ready along with vehicles.		
Highlighting EOC Phone No's. & other important PH no's.		
Preparing a database for Important Telephone Numbers.		
Adequate warning mechanism to be ensured for evacuation.		
An officer to be designated as Nodal officer for evacuation.		
Community assistance in organizing emergency transport of seriously		
injured to the Medical centre.		
Antisocial elements identified and taken care of.		
Community assistance in road clearance.		
Traffic management, Patrolling on State/National High ways and roads		
leading to disaster sites.		
Roads to be identified to made		
a) One way		
b) To be blocked.		
Passenger carrying vehicles etc. to be diverted away from Disaster sites.		
Security provisions in		
a) Shelters		
b) Transit camps		
c) Hospitals & Medical centre.		
Areas to be identified & cordoned off.		
Public information centers activated.		
Co-ordination with Army personnel in rescue and evacuation.		
Ensuring advance stocking of resource for evacuation equipments like		
ladders, rope, petromax lights etc.		
Alternate route charts for weak & Vulnerable points.		
Provision for security in		
a) Relief receiving centers		
b) Transportation of relief		
c) Relief stored go-downs		
d) Distribution of relief		
e) Relief camps		
f) Free kitchen centers / Feeding centers		
g) Relief officials		
h) VIPs' dealing with relief distribution		
i) Air dropping zones		
Assisting Dist. Authorities for action against Hoarders, Black Marketers		
etc.		
Safe guarding the weak & Vulnerable points on river embankment.		
Taking the relief poaching to task.		
Safe guarding the public / Govt. properties.		
With EOC / Collector		
With CDMO / CDVO / CSO / RTO		
With Irrigation / Line Departments.		
With Army Personnel's.		
With Army Fersonner's.  With Fire officer / NCC / NSS etc.		
Road clearance.		
Eviction of Encroachments.		
Arrangements for alternate routes  Identification of Consolities		
Identification of Causalities.		

# 11.3.3 Check List For ADDITIONAL DISTRICT MAGISTRATE:

PREPARED ACTION TAKEN	Y/N REMARKS
Ensuring communication establishment of DCR with Sub-division	
control rooms / Line Dept. Control Rooms Neighbouring district	
control room / Police control rooms / SSDMA / State EOC / SRC.	
Test checking of receipt & transmission of messages.	
Ensuring Proper functioning of communication equipments or systems.	
Alternate communication arrangements in case of failure of one system.	
Flow of information Up & Down as follows	
1) EOC/ADM Sub-division CR G.P CR Villages	
2) Rev. Deptt. / SRC / Collector / EOC/ADM Line Dept C.R./	
Police C.R / RTO. / CDMO / CDVO / DIPRO.	
Public address system to be kept ready along with vehicles.	
Highlighting Control Room Phone No's.	
Preparing a database for Important Tel Nos. & Alternate Tel Nos.	
EOC to operate with shift (24 hours & 365 days).	
Battery/Charging sets to be kept charged with arrangements for stand by	
Battery sets.	
Detail report of the situation to be displayed for everyone's information	
at EOC	
Adequate warning mechanism to be ensured for evacuation.	
Officers at different control rooms to be designated as Nodal officer for	
evacuation.	
Co-ordination between Dist. Administration with NGOs / CBOs etc.	
Mapping of safe shelters serving Vulnerable villages.	
Identification of Mounds & Cattle sheds.	
Army assistance / Special task group to be pre prepared.	
Rescue groups to be Mock drilled.	
Co-ordination with Police force / Police arrangements / Fire brigade staff.	
Contact Person / Address / Telephone No. of different Private / Govt.	
Vehicle to be kept in advance.	
Organizing vehicles / ambulance for immediate assistance to the affected	
mass.	
Community assistance in road clearance.	
Passenger carrying vehicles / transportation etc. to be diverted away from	
Disaster sites.	
Areas to be identified & cordoned off.	
Public information centers activated.	
Gender / Old age issue must be taken care of.	
Ensuring advance stocking of resource for evacuation equipments like	
ladders, rope, petromaxlights etc.	
Safe route / alternate route charts from / to weak & Vulnerable points.	
Evacuation routes not to be blocked for long time.	
Order of evacuation should be a)	
Seriously injured & sick	

b) Children, women, Handicapped, old age	
c) Able bodied.	
Petrol / Kerosene Oil / Diesel to be kept reserved in advance	
Ensuring supply of Food & Water	
An officer to be appointed as the relief officer.	
Provision for security in	
a) Relief receiving centers b) Transportation of relief c) Relief stored	
go-downs d) Distribution of relief e) Relief camps f)Free kitchen centers /	
Feeding centers g) Relief officials h) VIP's dealing with relief distribution	
i) Air dropping zones	
Order in advance for the requirements.	
Storage of materials in advance at the inaccessible pockets.	
Ensuring pre position of medical aids.	
Evaluating the depth of impact of disaster at different locations.	
Prioritizing the disaster sites depending upon the magnitude.	
Uninterrupted supply of relief materials to Relief camps / Multipurpose	
shelters.	
Provision for free kitchen / distribution of cooked food.	
Provision for transportation.	
Alternate route chart to reach the disaster sites / weak & vulnerable points.	
Arrangements for Trauma counselling facilities	
Initiating helps from local NGOs / CSOs / Anganwadi members	
Keeping an account of the list of private stockiest / Millers etc.	
Family pack should be made in advance.	
Type of relief materials to be finalized for different types of disasters,	
Ensuring MSL (minimum standard limit) at all the fair price shop /	
Wholesalers etc.	
Packed water to be pre stocked / Drinking water supply	
Public address system / Public information centre activated	
Precautionary measures through Leaf lets / Pamphlets.	
With SRC / SSDMA / RDC / Rev. Dept.	
With Different official of the Collectorate.	
With S.P. / CDMO / CDVO /DCSO / RTO	
With Irrigation / Line Departments.	
With Army Personnel's NCC / NSS etc.	
With Fire officer	
With Private Resource persons like Doctors / Engineers etc.	
With NGOs / CBOs	
With neighbouring district HQ.	
With Student mass	
Road clearance.	
Eviction of Encroachments.	
Arrangements for alternate routes	
Identification of Causalities.	
Electricity restoration.	
Transportation / communication restoration.	
Water supply restoration.	
Normalcy restoration.	
Estimation of the loss.	
Estimaton of the 1999.	

# 11.3.4 Check List For C.D.M.O.

PREPARED ACTION TAKEN	Y/N REMARKS
Ensuring communication establishment with DCR, P.H.C.s, Medical	
Aid Centres & Sub Centres	
Test checking of receipt & transmission of messages.	
Ensuring Proper functioning of communication equipments or systems.	
Alternate communication arrangements in case of failure of one system.	
Flow of information To & Fro as follows	
Collector / EOCC.D.M.O M.O., P.H.Cs, C.H.Cs etc	
M.O, Sub Centres Medical Aid Centres.	
Public address system to be kept ready along with vehicles.	
Highlighting Medical Control Room Phone No's	
Preparing a database for Important Tel Nos. & Alternate Tel Nos.	
Control room to operate with shift Medical officers (24 hours & 365	
days).	
Battery/Charging sets to be kept charged with arrangements for stand by	
Battery sets.	
Detail Precautionary report of the situation to be displayed for everyone's	
information.	
Ensuring prevention of water born diseases.	
Placement of requirements of medicines etc.	
Adequate warning mechanism to be ensured for evacuation.	
Officers at different control rooms to be designated as Nodal officer for	
evacuation.	
Functioning of medical Aid Centres in the shelters / weak & Vulnerable	
areas.	
Adequate supply of Medicines etc required for treatment of people	
rescued.	
Ambulance to be kept in readiness.	
Formation of Mobile units & Deputing these mobile units with	
Medicines to accompany the rescue team.	
Preventive measures to stop spread of epidemics in the shelters / relief	
camps.	
Distribution of Leaf-lets / Pamphlets for Dos & Dont's.	
Special Attention for water sanitation.	
Uninterrupted supply of Medicines to the Relief camps / Sub Centres /	
Multipurpose shelters.	
An officer to be designated as relief medical officer.	
The following emergency medical equipment are stocked	
<ul> <li>Drugs used for treatment of cut and fractures, such as tetanus</li> </ul>	
toxin, analgesics and antibiotics.	
<ul> <li>Drugs used for the treatment of diarrheal, water-borne diseases</li> </ul>	
and flu (including oral dehydrating supplies).	
<ul> <li>Drugs required treating burns and fighting infections.</li> </ul>	
<ul> <li>Drugs needed for detoxification including breathing equipments.</li> </ul>	
Discharge of all ambulatory patients whose release does not pose a health	
risk to them.	
Non-ambulatory patients relocated within the hospital to safest areas.	
Equipment supplies such as candles, matches, lanterns and extra clothing	

provided for the comfort of the patients.	
Emergency Generator available.	
Adequate supplies of aesthetic gases for surgery cases available.	
The hospital water storage tanks were filled.	
An area of the hospital designated for receiving large number of	
casualties.	
Emergency admissions	
<ul> <li>Procedures developed.</li> </ul>	
<ul> <li>Records maintained.</li> </ul>	
<ul> <li>Work schedules to ensure availability of adequate staff.</li> </ul>	
In house emergency medical teams to ensure that adequate staff available	
at all times to handle emergency causalities.	
Emergency accommodations provided for, for medical personnel from	
outside the area.	
Security arrangements made at hospitals.	
Public address system / Public information centre activated at the	
hospital.	
Trauma counselling facilities.	
With Collector / EOC, S.P. PHD, RWSS & Line Dept.	
With NGOs / CBOs	
With Health Dept. /Red Cross	
With Private Ambulance / Nursing Homes / Doctors / Specialist.	
Water Sanitation while the normalcy restores.	
Safe Disposal of carcasses.	
More Medical Aid Camps at disaster sites / Rehabilitation sites.	
Protection against epidemics water born diseases & air born diseases.	
Supply of disaster specific medicines.	
Record mentioning the details of casualties.	
Trauma counselling system developed.	

# 11.3.8 CHECKLIST FOR FIRE OFFICER:

PREPARED ACTION TAKEN	Y/N	REMARKS
Communication established with		
Police, Dist. Control Room, CDMO office, Emergency operation centre		
Essential fire fighting equipments are stocked		
Vehicle in good condition, Fuel, Masks, ladders etc.		
Personnel are trained to fight out different fire disaster situation		
Personnel are trained in the evacuation work		
Phone lines are always in order and Community may be informed about		
the contact points.		
Regular staff assessment for 24 hours to meet emergency		
Fire prone zones identified		
Steps have taken to educate people		
Minimum emergency response time (in minutes)		
Operating procedure –preparedness, during fire and rehabilitation		
Local authority should be kept informed for assistance		
Rescue of life and property		
Aid for Medical services.		
Local bodies should see the fire hazards for water supply points		
Rush to the spot to combat the situation		
Police to control the crowd and to help in giving assistance for relief		
Communication equipments-VHF		
Informed the local bodies for water supply –available sources		
First aid training to all		
Revenue Department coordinate for relief rehabilitation		
Village volunteers should seek the help of GP for water supply		

# ${\it 11.3.9 \ Checklist \ For \ Water \ Resources \ and \ river \ Development \ :}$

PREPARED ACTION TAKEN	Y/N	REMARKS
Radio communications established with		
Emergency Operations Centre, and Departmental		
offices within the division		
An officer appointed as "Officer-in-Charge-Irrigation"		
Emergency tool kits for all technical assistants prepared.		
Water level gauges on minor tank structures not having level gauges		
marked.		
Repairs/under construction activities are well secured.		
Round the clock inspection and repair being carried out of		
Irrigation channels, Bridges, Culverts, Overflow channels as may be		
necessary.		
Round the clock inspection and repair being carried out of		
Pumps, Generators, Motor equipment and Station buildings.		
Level of impounding in the tanks reduced.		
Coordination of this action with other districts is done.		
Inlet and outlet to tanks are cleared.		

# 11.3.10 Checklist For AGRICULTURE DEPARTMENTS:

PREPARED ACTION TAKEN	Y/N	REMARKS
Communication link within the division established with		
District Collector, EOC, Agricultural colleges,		
Seed banks, Nurseries (private and public).		
The Superintending Agriculture Officer designated as "Officer-in-		
Charge-Agriculture		
Agricultural equipments, which may be required, stocked.		
Contact established with soil and water testing laboratories.		
Extent of damage assessed for		
Soil, Crop, Plantation, Micro-irrigation systems and Storage facilities		
Requirements for salvage or re-plantation assessed		
Information provided to all concerned about the disasters, likely		
damages to crops and plantations, and information about ways to		
protect the same.		
Actions coordinated with		
Irrigation Department		
Organized transport, storage and distribution of		
Seeds, Fertilizers, Pesticides and Labour		
Cleaning operations carried out to avoid water logging and salinity.		
Surveillance for pests and diseases being carried out.		
Public information centre established.		
NGOs and other relief organizations informed of the resources of the		
Farmers assisted to re-establish their contacts with agriculture produce		
Adequate facilities provided to field teams.		

# 11.3.11 Checklist For ANIMAL HUSBANDRY DEPARTMENT:

PREPARED ACTION TAKEN	Y/N	REMARKS
Radio Communication link established with		
District Collector, Emergency Operations Centre, Veterinary aid		
centers and Hospitals (including private practitioners) within the		
division.		
The District Animal Husbandry Officer designated as "Officer-in-		
Charge-Veterinary Services"		
Emergency medical equipments required are stocked.		
All veterinary hospitals and centers staff informed about the disasters,		
likely damages and effects, and ways to protect life, equipment and		
property.		
Emergency electrical generator arranged.		
Emergency supplies of anesthetic drugs arranged.		
Hospital water storage tanks filled		
An area of the hospital prepared for receiving large number of livestock		
Emergency admission procedures developed (with adequate record		
keeping).		
Transfer of seriously injured livestock from villages to veterinary aid		
centres and hospitals organized.		
Established at disaster sites		
Cattle camps, Additional veterinary aid centers.		
Adequate sanitary conditions maintained		
Cleaning operations being carried out		
Epidemiological surveillance is being undertaken		
Emergency accommodations available for veterinary staff from outside		
the area.		
Organized for cattle camps		
Water, Fodder and Animal feed.		
Public information centre established.		
The local police, and rescue groups informed of the resources of each		
Veterinary aid centers and hospital.		

# ${\it 11.3.12~Check list~For~Public~Work~Department:}$

PREPARED ACTION TAKEN	Y/N	REMARKS
Radio Communication link established with		
District Collector, Emergency Operations Centre, Departmental offices		
within the division.		
An officer appointed as "Officer-in-Charge-PWD"		
Extra transport vehicles dispatched from headquarters		
Work under construction secured		
Heavy equipment, such as front-end loaders, to be secured.		
All work teams issued two-way communication link.		
Inspection and emergency repairs, if necessary, carried out for all		
Roads, Roads bridges, Underwater inspection of foundations and piers,		
Concrete and steel works.		
Inspection and emergency repairs, if necessary, carried out for all		
buildings and structures of the state government (including hospital		
buildings)		
Emergency inspection by mechanical engineer of all plant and equipment		
in the District workshops carried out.		
Emergency tool kits assembled for each division		
Routes strategic to evacuation and relief marked		
Adequate road signs installed to guide and assist the drivers.		
Priority listing made for which roads to be opened first.		
Essential equipments such as		
Towing vehicles, Earth moving equipments, Cranes etc.		
Made available		
Begin clearing roads		
Community assistance mobilized for road clearing		
The following activities were undertaker		
Cleaning of ditches, Grass cutting, Burning or removal of debris and		
Cutting of dangerous trees along the roadside in the affected area.		
The following repair works were undertaker for		
All paved and unpaved road surfaces, Pothole patching and		
Any failure of surface foundations in the affected areas.		
Construction work undertaken for temporary roads to serve as access to		
Temporary transit camps, Relief camps and Medical centers.		
Construction work undertaken for temporary structures required for		
organizing relief work such as		
Relief camps, Feeding centers, Medical facilities, Cattle camps		
An up-to-date report of all damage and repairs kept in the district office		
report book.		

# 11.3.13 Checklist For Public Health Engineer:

PREPARED ACTION TAKEN	Y/N	REMARKS
Radio Communication link established with		
District Collector, Emergency Operations Centre, Departmental offices within the division.		
One officer appointed as "Officer-in-Charge-Water Supply"		
Ensured that the hospital storage tank is full and the hospital is		
conserving water.		
Informed people to store emergency supply of drinking water.		
Continuous monitoring carried out for Pumping stations, Buildings above ground, and the treatment plant		
Provision for standby water supply made.		
Procedures were established for the emergency distribution of water if		
existing supply was disrupted.		
Provisions to acquire tankers and establishing other temporary means of		
distributing water on an emergency basis carried out.		

Provisions to acquire containers and storage tanks required for storing	
water on an emergency basis carried out.	
Water distributed to all transit camps, Relief camps, Affected villages &	
Cattle camps	
Buffer stock of fuel for the motors acquired	
Emergency repairs of damages to water supply systems carried out	
Appropriate sources of potable water identified.	
Unacceptable water sources identified	
Necessary precautions taken to see that no water is accessed from such	
sources.	
Alternate water supply arranged in feeding centers, All transit camps,	
Relief camps, Cattle camps and the affected areas.	
Drinking water supply is disinfected as per the standards and procedures	
laid down.	
Emergency accommodations for staff from outside the area provided.	

# 11.4 Schedule for Updating Plans

Plans	Updating Time
District Disasters Management Plan	½ Yearly (MAY & NOV)
Line Departments Disasters Management	½ Yearly (MAY & NOV)
Plan	

#### CHAPTER- XII

# **OPERATIONAL GUIDELINES OF WHAT TO DO DURING DISASTERS**

# 12.1 Operational Guidelines of What to do in the event of a Cyclone

Do's	Don'ts
	2 212
Listen to the Radio/ TV / Public Addressing	Do not go outside or into a beach during a lull
System for advance information and advice.	in the storm.
Allow considerable margin for safety.	Be away of fallen power lines, damage bridges
	And structures.
A cyclone may change direction, speed or	Do Not go for side sight seeing
intensity within a few hours, so stay tuned to	
the radio / TV for updated information.	
Tape up large windows to prevent from	
shattering.	
Move to the nearest shelter or vacate the area if	
this is ordered by the appropriate government	
agency.	
Stay indoors and take shelter in the strongest	
part of the house / society.	
Open windows on the sheltered side of the	
house if the roof begins to lift.	
Find shelter if you are caught out in the open.	
If you have to evaporate, do not return until	
advice.	

# 12.2 Operational Guidelines of What to do in the event of a Flood

Do's	Don'ts
Listen to the Radio/TV/Public Addressing	Do not enter floodwaters on foot if you can
System for advance information and advice.	avoid it.
Disconnect all electrical appliances and move	Never wander around a flooded area.
all valuable personal and household goods and	
clothing out of reach of floodwater, if you are	
warned or if you suspect that floodwaters may	
reach the house.	
Move vehicles, Farm animals and Movable	Do not allow children's to play in, or near,
goods to the highest ground nearby.	floodwaters.
Turn off electricity, gas if you have to leave the	Do not drive into water or unknown death and
house.	current.
Lock all outside doors and windows if you have	Do not it food or drink water, which is affected
to leave the house.	by floodwater.
If you have to evaporate, do not return until	
advice.	

# 12.30perational Guidelines of What to do in the event of a Heat Wave

Do's	Don'ts	
Listen to the Radio/TV/Public Addressing System for advance	Avoid standing under direct sun.	
information and advice.		
Finish the work at the morning or leave it to the evening.	Avoid Long Drives.	
Drink Sufficient Water & take Food		
Keep your head away from the direct heat. Use Clothes, Cap,		
Umbrella or Glasses		
Keep Stock water with you		
Wear light dresses.		

# 12.4 Operational Guidelines of What to do in the event of a Drought Situation

Do's	Don'ts
Save Water & Stock Water	Stop disutility of Water
Arrange for alternate cropping	
Contact Nearest Agriculture Office	

# 12.5 Operational Guidelines of What to do in the event of a Earthquake

Do's	Don'ts
Listen to the Radio/ TV/ Public Addressing	Do not run and do not wander round the
System for advance information and	streets.
advice.	
Teach all members of your family how to	Keep away from buildings, walls, slopes,
turn off the electricity, water and gas	electricity wires and cables & stay in the
supply.	vehicle.
Protect yourself by staying under the lintel	Do not rush to the doors or exits, never use
of an inner door, in the corner of a room,	the lifts keep well away from windows,
under a table or even under a bed.	mirrors, chimneys and furniture.
Keep away from Old, Tall or ditched	Do not rush to the doors or exists, never

buildings, electricity wires, slopes and	use the lift.
walls, which are liable to collapsed.	
Stop the vehicle away from building, walls,	Avoid places where there is use electric
slopes, electricity wires and cables.	wires and do not touch any metal object in
	contact with them.
Live your badly damaged house.	Do not re-enter badly damaged buildings
	and do not go near damage structures.
Collect water containers, food items and	
ordinary and facial medicines.	

#### **Conclusion**

Humanity has been the victim of natural disaster from its very beginning. It has extracted a heavy toll of deaths and suffering to the human beings. Earthquake, Landslides, floods, cyclones, hurricanes, volcanic eruptions, wild fires and such other natural disasters have claimed millions of lives all over the world and have adversely affected billions of people. Disasters have multiplying effects as one type of disaster ends up in another. To exemplify a few floods may occur with cyclones and earthquakes simultaneously or in a sequential pattern, causing dam failures, landslides, destruction of roads and bridges. The character and extent of the disaster depends upon the nature of the elements involved and on the resistance of a man made environment to these elements.

"Natural Disaster" is a global phenomenon and it does not recognize any national boundary. But the worst sufferers are the developing countries, which are badly equipped to deal with such events. The South Asian countries can be cited as examples, which have economic dependence upon primary production and have primitive and have inadequate technological infrastructure. This results in substantial loss of human life and upheaval in the first instance, and the destruction and disruption of vital production structures and communications in the second. Disasters are thus, a significant obstacle to economic development, especially in lesser-developed parts of the world, India being no exception.

Ever since the dawn of human civilization, man has always been struggling to control nature and environment. In fact, the goal of human destiny is to gain complete mastery over nature. But despite technical advances in the field of structural and non-structural measures, the quantum of loss of life and damage to material assets is increasing. It may not be possible to prevent the occurrence of these natural phenomenon but the disastrous effects they generate can be avoided or at least reduced. In fact, it is not the phenomena themselves but their interaction with human settlements and land use that constitute disasters.

#### **ANNEXTURE**

#### List of important telephone number:

Chief Secretary - (03592) 202315

Addl. Chief Secretary- (03592) 202657

Director General of Police- (03592) 202747

Relief Commissioner- (03592) 201145, Fax No.- (03592) 201075.

State Control Room- (03592) 201145

**Emergency Operating Centre-**

1. North - (03592) 234538

2. East- (03592) 204995

3. West- (03595) 250633

4. South- (03595) 264442

Fire Control Room (Mangan)- (03592) 234266

Mangan District Hospital- (03592) 234244

Mangan Police Station- (03592) 234246/ 234276

# ANNEXTURE-II School Building as Safe Shelter

Sl	GPU name	Sr. Sec School	Sec. School	JH School
no				
1	Ringhim	-	-	Ringhim JHS
	Nampatam			
2	Singhik	Mangan Sr. Sec	-	-
	sentam	School		
3	Toong Naga	-	-	-
4	Shipgyer	-	-	-
5	Chungthang	-	Chungthang Sec,	-
			School	
6	Lachen	-	Lachen Sec. School	-
7	Lachung	-	Lachung Sec. School	-
8	Lingthem	-	Passingdang Sec.	-
	lingdem		School	
9	Lingdong	-	Lingdong Sec.	-
	barfok		School	
10	Lum gor	-	-	Gor JHS
	Sangtok			
11	Kabi Tingda	-	Kabi Sec. School	-
12	Phensang	-	Phensang Sec. School	-
13	Ramthang	-	-	
	Tanyek			
14	Men	-	-	Phamtam JHS
	Rongong			
15	Rongong-	Phudong Sr. Sec.	-	-
	Tumlong	School		
16	Tingchim	-	-	1.Tinchim JHS
	Mangshilla			2. Mangshilla JHS
17	Namok	-	Namok Sec. School	Soyem JHS
	Soyem			
18	Hee	Hee-Gyathang Sr.	-	
	gyathang	Sec. School		
19	Sakyung	-	-	Linzya JHS
	Pentong			
20	Tingvong	-	Tingvong Sec.	-
			School	

# ANNEXTURE-III

# POLICE STATION along with wireless system:

Name of Police Station	Name of GP (location)	Staff available
Mangan Police Station	Ringhim Napatam GPU	38
Chungthang police Station	Chungthang GPU	09
Phudong Police station	Rongong Tumlong GPU	20
Lachung Police station		09
Lachen Police station		12
Sangkalang OP	Lingdong barfok GPU	04
Rangrang OP	Ringhim Nampatam GPU	09
Bringbong OP	Hee Gyathang	04
Phidang OP	Lum Gor Sangtok GPU	07
Kabi OP	Kabi Tingda GPU	09

#### ANNEXTURE-IV

#### List of QRTs under District Collectorate, North

SI. No.	Name	Home Address	Place of Posting	Contact No.
1	Mr. Karma Hissey Bhutia	Chadey	SDM, Kabi	9733229973
2	Mr. Chozang Bhutia	Rongong	SDM, Kabi	9564522302
3	Mr. Thendup Bhutia	Swayam	DAC, Mangan	7797881588
4	Mr.Karma Tashi Bhutia	Mangshilla	SDM, D'Zongu	
5	Mr. Lalit Subba	Mangan	SDM, D'Zongu	
6	Mr. Pea Rinchen Bhutia	Lower Singhik	DAC, Mangan	9735022739
7	Mr. Saran Rai	Rongli	-do-	9832424447
8	Miss. Pema Diki Bhutia	Swayam	-do-	7872892332
9	Mr. Norpa Lepcha	Tingvong	-do-	8348160147
10	Mrs. Kessang Bhutia	Timchim	-do-	9609042956
11	Mr. Dawa Pintso Bhutia	Ambithang	-do-	9734502392
12	Mr. Sonam Tsering Lepcha	Ringhim	-do-	
13	Mr. Ongdup Lepcha	Chungthang	Chungthang SDM Office	
14	Miss. Kessang Lepcha	Chungthang	-do-	
15	Mr. Dupzor lepcha	Chungthang	-do-	
16	Mr. Sherap Palden Bhutia	Chungthang	-do-	

# ANNEXTURE V-List of NGOs.

Name of	Area of	Sector	Contact No.	Address
NGOs/CBO	operation			
MLAS	Dzongu	Social, culture &		Sangkalang/U. Dzongu
		environmental		
Northern's	Mangan	Cultural & Sports		Mangan Bazaar
Club				
Key-duk-	Namok	Social cultural & rural		Namok
Tsogpa		Development		
Nari Samaj	Mangshilla	Women's Development		Mangshilla
S.C.	Mangshilla	S.C. Development		Mangshilla
Welfare				
Association				
Wangdi	Mangan	Orphanage Hostel		Mangan
Faith				
Mission				
Sikkim	Lingdong	Educational & moral		Lingdong Busty
Kalyan				
Ashram				
Rep-Boum	Phidang	Social, culture &		Phidang, Lower
Raumtong		Environment.		Dzongu
Kurmom				
NYKS	Mangan			Mangan Bazaar

#### ANNEXTURE VI-

#### Traders:

Type of Traders	Contact person and address	Telephone Office/	Remarks
		Res.	
House building	Srinath Prasad	9614997797	
materials	Mangan Bazaar		
Groceries	Dipak Thakur	9434235139	
	Mangan Bazaar		
Medicine shop	Mahindra Malu		
	Mangan Old Bazaar		
Tents and Tarpaulins			
Hardware shops	Binod Chettri		
	Taxi stand, Mangan		
Rice mill	Pentok, Phudong		
Fuel wood	Manul		
Electrical	Petuk Kazi	7602721565	
Equipments	Mangan Bazar		
Restaurants	Suraj Hotel, Lachen valley,		
	Dynasty, Himalayan		
Farm inputs			

# ANNEXTURE VII-

# Financial Institutions:

SL NO.	NAME OF INSTITUTIONS	ADDRESS	TEL. NO.
1	SBI	SBI branch,	
		Mangan Bazaar,	
		North sikkim	
2	SBS	SBS Branch,	
		Mangan Old	
		Bazaar, N. Sikkim	
3.	SBI Branch,	Rongong Tumlong	
	Phudong	GPU	
4.	SBI Branch,	Kabi Tingda GPU	
	Kabi		
5.	IDBI	Mangan Bazaar,	
		North sikkim	
6.	Canara Bank	Mangan Bazaar,	
		North sikkim	
7.	Central bank	Mangan Bazaar,	
		North sikkim	
8.	SISCO	Mangan Bazaar,	
		North sikkim	

# ANNEXTURE VIII-List of Equipments in EOC (North):

SL. NO.	ITEMS (DC NORTH)	Quantity
1.	Bosch cutter big 400 mm, (mhe 172, 350 mm)	01
2.	Hydraulic jack 0.5T (Mithaico)	01
3.	Aluminium Ladder 44ft.	01
4.	Ascender (Zumar)	10
5.	Brick Hammer	05
6.	Carabineer (plain/Screw)	05
7.	Carbineer 9 (without lock)	05
8.	Chain saw petrol driven	01
9.	Dangree (full rescue suit)	05
10.	Flood light	02
11.	Generator (Honda 3U30) SKV	01
12.	Gloves (rescue/rappelling)	10
13.	Head Light (Battery operated)	10
14.	Helmet	10
15.	Log saw(fully developed & ready to use) AARI	02
16.	Mega phone	01
17.	Mountain climbing rope 10/12 mm	02
18.	Pulley double (heavy duty)	05
19.	QRT	04
20.	Rescue specialist litter (stretchers fibre)	02
21.	Ruck sack (60 to 70 ft)	02
22	Tower Light	01
23	Rescue Rope	02
24	Tent small	01
25	Rain Coat	05
26	Radio communication Set	01
27	Stretcher	05
28	Nylon Rope (big)	02

S. No.	NO. AND NAME OF GRAM PANCHAYAT UNIT	NO. & NAME OF SCHOOL		
1		1	Kalzang Gyatso SSS	
		2	Gaikhana PS	
		3	Gairee PS (SSA)	
	1/ KABI-TINGDA	4	Bakcha PS (SSA)	
	,	5	Lingchom PS	
		6	Tingda PS	
		7	Longbu PS	
2		1	Phensong SS	
		2	Phamtam JHS	
		3	Chawang PS	
	2/ PHENSONG	4	Labi Rangdem PS	
		5	Rarik PS	
		6	Shipthang PS (SSA)	
3		1	Men Rongong PS	
<u> </u>	3/ MEN RONGONG	2	Monlom PS (SSA)	
1		1	Phodong SSS	
4		2	Tumlong UPS	
	4/ RONGONG-TUMLONG	3	Phodong Gumpa PS	
		4		
			Tadong PS (SSA)	
5	5/ RAMTHANG-TANEK	1	Ramthang PS	
		2	Tanek PS	
6	6/ NAMOK-SWAYEM		Sawyam JHS	
		2	Namok JHS	
7		1	Mangshilla SSS	
		2	U. Mangshilla PS	
	7/ MANGSHILLA-TIBUK	3	L. Mangshilla PS	
		4	Thibuk JHS	
		5	Ralak JHS	
8	8/TINGCHIM-CHADEY	_ 1	Tingchim SS	
	5, 111 GE111 VI G117 BE1	2	Rang Rang JHS	
9		1	Mangan SSS	
	9/ RINGHIM-NAMPATAM	2	Ringhim SS	
	3) KINGTIIVI NAIVII ATAIVI	3	Malling PS	
		4	Nampatam PS	
10	10/ SINGHIK	1	Singhik SS	
	25/ 5/110/1110	2	Pakshep JHS	
11		1	Manul SS	
	11/ TOONG-NAGA	2	Naga JHS	
		3	Meyong PS (SSA)	
		4	Naday PS	
12		1	Tasa Tengay SS	
	12/ CHUNGTHANG	2	Munsithang PS (SSA)	
		3	Bop PS	
		4	Pegong PS	
13	13/ SHIPGYER	1	Shipgyers PS	

		2	Ramom PS
14		1	Lingthem JHS
	14/LINGTHEM LINGDEM	2	Lingdhem PS
	14/ LINGTHEM-LINGDEM	3	4th mile PS
		4	LAVEN PS
15	15/ PASSINGDANG-SAFFO	1	Passingdang SS
	13/ PASSINGDANG-SAFFO	2	Saffo-Salim Pakyel JHS
16		1	Tingvong SS
	16/ TINGVONG	2	Namprick UPS
		3	Lingkoo PS
17	17/ SAKYONG PENTONG	1	Lingzya JHS
	17/ SARTONG PENTONG	2	Pentong PS
18		1	Sona Choda Lepcha Memorial SS
	18/ BARFOK LINGDONG	2	Barfok PS
	·	3	Noam Panag PS
		4	Mangzing PS (SSA)
19		1	Hee Gyathang SSS
	40/LIFE CVATUANC	2	Gnon-Sangdong JHS
	19/ HEE GYATHANG	3	Gnon PS
		4	Bringbong PS (SSA)
20		1	Gor SS
		2	Sangtok JHS
	20/11INA COD CANICTOR	3	Lum PS
	20/ LUM GOR SANGTOK	4	Tarang PS
		5	Lingtyang PS
		6	Pheedang PS (SSA)
21	24 / LACHEN DZUNACA	1	Lachen SS
	21/ LACHEN DZUMSA	2	Chatten PS
22		1	Lachung SS
	22/ LACHUNG DZUMSA	2	Sarchok JHS
		3	Bitchu PS (SSA)

# **KABI TINGDA**

NO. & NAME OF GRAM PANCHAYAT UNIT	NO. & NAME OF GRAM PANCHAYAT WARD	NAME OF ELECTED PANCHAYAT	NAME OF POST WHICH ELECTED	CONTACT NO.
1	2	3	4	6
	1/Tingmoo Ghaikhana	Chey Lhamu Sherpa	Member	9593774914
	2/Rongpa	Pintso Tashi Bhutia	Sabhapati	9679917782
1/Kabi Tingda	3/Longbu	Tashi Lhendup Bhutia	Sachiva	9679900430
•	4/Lingchom	Tshering Sherpa	Member	9472183537
	5/Tingda	Kima Sherpa Nima Lhamoo	Up-Sabhapati	9733521687
	6/Gaiee	Sherpa	Member	9800780679
	1/Upper Panay Phensang	Pema Rinzing Lepcha	Member	8370997739
	2/Lower Panay Phensang	Norjeela Lepcha	Sabhapati	9434407928
2/Phensang	3/Gensol Phensang	Namday Lepcha Ugen Lhendup	Member	9476299232
	4/Safyong	Bhutia	Sachiva	9474352972
	5/Labi	Phurkey Lepcha	Member	9474980774
	6/Sardong	Chuzing Lepcha	Up-Sabhapati	9933458863
	7/ Tingshim	Doma Lepcha	Member	9593285509
	1/Men Rongong	Passang Pencho Lepcha	Sachiva	9475011329
	2/Rarik	Doma Yangzom Lepcha Dawa Doma	Up-Sabhapati	9679958434
	3/Phamtam	Lepcha	Sabhapati	9475302616
3/Men Rongong	4/Upper Chawang/Chawa ng Ani G.	Songmit Lepcha	Member	9800067607
	5/Lower Chawang	Pintso Lepcha	Member	9475078698
	6/Malam	Narim Lepcha	Member	8768439839
	1/Tumlong 2/Labrang/Labra	Zamyong Bhutia	Sachiva	7407184320
	ng Gumpa	Chomkee Bhutia	Member	9679260672
4/Rongong Tumlong	3/Upper Phodong 4/Lower	Gaki Bhutia	Sabhapati	7602676535
,, tongong runnong	Phodong/Phodon g K.Gumpa 5/Upper	Chittim Bhutia	Up-Sabhapati	9593269915
	Rongong 6/Lower	Dathik Bhutia Som Bahadur	Member	7872019641
	Rongong	Subba	Member	8348184094
	1/Ramthang Khyongu	Pem Chuki Bhutia	Sachiva	7407185506
	2/Ramthang Phyagu 3/ Ramthang	Marmit Lepcha	Up-Sabhapati	7872944210
5/Ramthang Tangyek	Ghongkha	Denthi Lepcha Pema Doma	Member	9635297516
	4/Tangyek	Lepcha	Member	9593779192
	5/Lungchok Sangam	Karma Gyaltsen Lepcha	Sabhapati	9775440327

	1/Lower Lingdong	Norgay Lepcha	Sachiva	9647851373
	2/Upper Lingdong	Gaymit Lepcha	Up- Sabhapati	9593288249
arfok Lingdong	3/ Lower Burfok	Lobzang Lepcha	Member	7872895746
	4/Upper Barfok	Chumit Lepcha	Sabhapati	9647872315
	5/Manzing	Phuchung Lepcha	Member	9474840713
	1/Sudur Bringbong	Tshering Doma Lepcha	Sachiva	9635709336
	2/Bringkatam Ravong	Sonam Gyatso Lepcha	Member	7797881505
19/Hee Gyathang	3/Mantyang Tungkyong	Kalzang Dorjee Lepcha	Member	9679742923
	4/Hee Gyathang	Samroo Ugen Palzor Lepcha	Sabhapati	9002463615
	5/Samdong	Lhakit Lepcha	Member	9593288752
	6/Gnon	Jeymoo Lepcha	Up- Sabhapati	9734721541
	1/Tarang/Gor T.Gompa	Passang Doma Lepcha	Member	8768431521
20/Lum Cor Sanatak	2/Gor	Chung Chung Lepcha	Sabhapati	9800065393
20/Lum Gor Sangtok	3/Sangtok	Lhamzay Lepcha	Member	9593971968
	4/Shagyong	Topgay Lepcha	Sachiva	9679895296
	5/Lum	Tshering Gyatso Lepcha	Up- Sabhapati	9800215041
		Palzor Lachenpa	Pipon-I	8372989038
21/Lachen Dzumsa	Lachen	Nawang Hissey Lachenpa	Pipon-II	9474840041
22/Lachung Dzumsa	Lachung	Lakpa Lachungpa	Pipon-I	8372868577
22/Laciturig D2umsa	Lacriting	Namgay Ongdi Lachungpa	Pipon-II	9434952297
	1/Pachey	Dawa Doma Lepcha	Sabhapati	9474058632
44/Navey Shotak	2/Navey	Ugen Tsh. Bhutia	Up- Sabhapati	7602025616
44/Navey Shotak	3/Shotak	Kazi Manger	Sachiva	9733176714
	4/Takchi	Paljor Bhutia	Member	9474650056
	5/Penlong	Sonam Tashi Bhutia	Member	9547250804
	1/Lingdok	Uma Chettri	Sabhapati	7797892207
	2/8th Mile Lingdok	Dorjee Eden Bhutia	Sachiva	8670670126
51/Lingdok-Nampoong	3/ Nechu	Khem Lall Sharma	Up- Sabhapati	9593889435
	4/Nampong	Bishnu Bhakta Sharma	Member	7407385075
	5/Ari	Phu Tsh. Lepcha	Member	8371870811
	6/Phangthang	Lakpee Bhutia	Member	7407181373