

DISASTER MANAGEMENT PLAN LEH DISTRICT



**DEPUTY COMMISSIONER OFFICE,
LEH**

FOREWORD

I have great pleasure to release the Leh District's Disaster Management Plan 2011-12. It is for the first time a full fledged Disaster Management Plan is prepared for Leh. It is the commitment of the District Administration to effectively deal with disaster in future so that loss of life and property is minimized to very minimum. The principle "well thoughtout plan is half work done" is very well followed in the preparation of this plan. In order to prepare the plan, inputs were taken from all the stake holders.

The role of a district administration always comes first during a crisis as it gets the first hand information. It has to react and respond during crisis and it has to initiate rescue, relief measures immediately with the available resources. As most of the disasters which struck the district came without warning and hence a comprehensive planning is essential. Eventhough, it is not possible to prevent some of the disasters, its magnitude can be reduced to the tolerable level. In the preparation of the Plan, utmost care has been taken to include each and every detail which can come handy during a crisis keeping the past experience in mind. The objective of the preparation of the plan was to develop a holistic, co-ordinated, proactive strategy for the management of disaster through a culture of prevention, mitigation and preparedness to generate a prompt and effective response in the event of an emergency. In the preparation of DDMP for leh district, the guidelines given in the National Disaster Management Policy, draft J&K State Disaster Management Policy, template provided by the NDMA is fully followed.

I am thankful to the team of officers, headed by DR. B. BALAJI, IFS who worked tirelessly in bringing about a comprehensive District Disaster Management Plan for Leh. The Draft is revised and re-revised before it is given a final shape. I take this opportunity to thank all the stakeholders who extended their willing support and cooperation to our efforts.

The present DDMP-Leh 2011-12 needs to be revised in the next year to update information and to make it more accurate.

Jai Hind

Leh
May 2011

Tsering Angchok, KAS
Chairman, District Disaster Management Authority
Deputy Commissioner,Leh/ CEO,LAHDC

ACKNOWLEDGEMENT

I am thankful to Shri. Tsering Angchok, Deputy Commissioner, Leh/Chairman, District Disaster Management Committee who gave the opportunity to prepare the District Disaster Management Plan (DDMP) and also provided me with a committee of enthusiastic officers as well as all kind of support for the successful preparation of the plan.

I am grateful to the members of the committee constituted for the preparation DDMP as without their whole hearted effort, preparation of District Disaster Management Plan in a short span of time is impossible task. I am particularly thankful to Sh. Tadbar Joldan, Asst. Labour Commissioner who took lot of efforts in collecting the required information from various departments. I am equally thankful to Sh. Moses Kunzang, PO, DRDA who lent considerable supporting hand in bringing about the comprehensive District Disaster Management Plan in a short span of time.

I am also thankful to heads of various departments, Sr. Superintendent of Police, Leh Army, ITBP, NHPC, HCC etc., for providing the valuable information in a short span of time.

The support of my department staff, staff of Deputy Commissioner's office as well as that of Project Officer, DRDA in collecting information, typing, correcting the text, is also gratefully acknowledged.

Leh
May 2011

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Abbreviations

ACR	Assistant Commissioner, Revenue
AD	Assistant Director
ADC	Additional Deputy Commissioner
BDO	Block Development Officer
CAHO	Chief Animal Husbandry Officer
CAO	Chief Agriculture Officer
CAPD	Consumer Affairs and Public Distribution
CEO	Chief Education Officer
CEO	Chief Executive Officer
CMO	Chief Medical Officer
DC	Deputy Commissioner
DCR	District Control Room
DFO	Divisional Forest Officer
DSAHO	District Sheep and Animal Husbandry Officer
ICS	Incident Command System
LAHDC	Ladakh Autonomous Hill Development Council
NDMA	National Disaster Management Authority
NIC	National Informatics Centre
PHE	Public Health Engineering
PWD	Public Works Department
SDM	Sub Divisional Magistrate
SDMA	State Disaster Management Authority
SNM	Sonam Norbu Memorial
SSP	Senior Superintendent of Police

EXECUTIVE SUMMARY

Leh district is one of the biggest district in India and it is the biggest district in J&K covering an area of 45,110 sq. km. It is also one of the remotest district in India. It has got land route connectivity only during summer whereas during winter because of heavy snow fall in Zozilla Pass and Rohtang pass, it remain cutoff from rest of the world with only aerial route available as connectivity. The climate of Leh district is also very harsh with prolonged winter and short summer which means very short working season. The agricultural productivity is also low and it is subsistence agriculture. Most of the materials has to come from outside the district which also makes the district very vulnerable.

Leh district experienced disaster in the form of cloud burst and flash flood and swelling of river due to snow mealt during summer. The cloud burst and the flash flood disaster of 2010 has taken away many lives and created huge damage to property as well. Leh is also vulnerable to Road blockade due to land slides, Snow avalanche, earth quake and Drought. With reqard to earth quake, it is in Zone IV of Damage Risk Zone as strike-slip fault is running along Zanskar and Ladkh ranges. As the district is very remote, it adds further complication as help may take some time before it reaches which was witnessed in the previous disaster. So there is need for a proper planning to deal with such disasters to avoid loss of life and property and also to get back to normality at the earliest possible.

The District Disaster Management Plan of Leh district has taken in to account all possible natural disasters. In the plan measures for prevention and control of various disasters is elaborated. A very elaborate at the same time crisp information about the district is given in district profile. An attempt has been made to study the capacity of various departments and the need for capacity addition to be prepared for a disaster is also given. Institutional mechanism is very well elaborated with roles and duties of different players is clearly mentioned. SOP during various stages of disaster is also given succinctly. Checklist which comes handy during a time of crisis is also developed for Deputy Commissioner, Addl. Deputy Commissioner, Sr. Superintendent of Police and SDMs/Tehsildars is given. Overall the DDMP of Leh is as per template provided by the National Disaster Management Authroity and as per guidelines provided in the Draft Jammu and Kashmir State Disaster Management Policy.

The present DDMP-Leh has to be reviewed in the year 2012 to improve the quality and to add new information and also to correct the short comings if any in the present plan.

INTRODUCTION

A disaster is an event of natural or man made causes that leads to sudden disruption of normalcy within society, causing damage to life and property to such an extent that normal social and economic mechanisms available are inadequate to restore normalcy. Leh district part of Ladakh region is the largest district with very low population density. Leh has extreme cold weather with very short summer. Leh district has also faced furry of the nature in the past. Flash floods, snow avalanche, road blockade due to land slides are very common occurrence in the past. It is also highly earthquake prone and it is placed in zone IV of Earth quake Damage Risk zone. There is need for pro-active approach in facing these disasters. A well made plan can help in preparedness, prevention and integrating disaster plan to developmental plan. A well prepared plan envisages the stakeholders with adequate responsibility and role to achieve goal of minimum losses to both life and property. A well prepared plan helps in handling the hazards in such a way that it does not turn into disastes.

The objective of DDMP shall be “to minimize the adverse effects of a hazard through effective precautionary actions, rehabilitation and recovery to ensure the timely, appropriate and effective organization and delivery of relief and assistance following a disaster”.

Major Objectives:

- To prevent loss of human lives and property-preparedness, prevention & mitigation of disasters.
- Development converging in addressing Preventive and Mitigation in Disaster Management.
- Training and awareness creation.
- To make the society able to act very fast to manage the loss caused by disaster.

The objectives can be achieved by taking various pre-disaster preparedness like establishing pre-disaster warning system, dissemination of information, training, rehearsal etc. and well thoughtout response plan, rescue plan during the disaster , linking disaster management plan with District plan for long term preparation, preparing and following standard operation procedure etc.

The preparation of the plan and revision and updation of the plan is the responsibility of district administration. The present plan is finalized by May 2011. Since there may be short comings and updation of information will be required, it will be revised in the year 2012.

3.1 DISTRICT PROFILE

Leh district part of Ladakh region spread over to 45,110 sq. km fall under cold desert region. Ladakh lies between 32° 17'N to 36°15' N lat; 75° 15' E to 80° 30' E long. The region is bounded in north and east by China and in the north west by the area under illegal occupation of Pakistan. The districts of Baramulla, Srinagar, Anantnag and Doda fall towards its west whereas the southern side is flanked by Punjab and HP. Zojila serves as only link between Ladakh and Kashmir. Ladakh is cut diagonally by Indus river forming a huge basin. The upper half of the basin constitute Leh district, the western portion of Skardu district the southern half the Kargil district. On the west of it Gilgit is located.

Major mountain systems commence from north west are Kunlun, Aghil, Karakorum, Kailash, Ladakh, Zaskar and Great Himalayan range. The ranges show distinct parallelism aligned in north west, south west direction. In between these mountain chains there are three great longitudinal valleys viz., Zaskar, Indus, Shyok and number of side valleys like Nubra, Drass, Pangong, Suru and a great table land. Nubra, Indus valley falls in Ladakh district. Among other natural resources, rivers are one of the life line of Ladakh. The Indus river and Shyok river and Hanle are the major source of irrigation and the Shyok and Hanle are tributaries of Indus. Apart from rivers there are number of lakes, out of which Pangong Tso, Tso-Rul, Tso-Morari, Tso-kar, are important lakes of Ladakh district which attracts tourist from throughout India.

Climate

It can be divided on the whole into two, main seasons winter and summer with short spring and autumn season; Winter: Nov-April, Spring: May-June, Summer: June-Aug, Autumn –Sep-October. Average annual rainfall is 40-70mm. Max. temp goes upto 33 and minimum goes down to -40°C. The growing season is restricted to May to October. Wind speed is very high particularly during the period of April-May. It may touch 50-60 km per hour. Wind speed increases in the afternoon. Humidity less than 40% for most part of the year. High wind speed combined with low humidity leads to increased water loss in the form of evaporation and transpiration which necessitates continuous irrigation to plantations for their survival

Leh District Profile

It is the one of the largest district in India and the largest district of Jammu and Kashmir State with 113 villages (112 inhabited and one uninhabited villages). Population of the district is 1,17,232 souls as per 2001 census with Buddhist as the biggest ethnic group followed by Muslim

➤ Topographic & Geographical Profile:		
a.	Latitude	32 to 36 degree north
b.	Longitude	75 to 80 degree each

c.	Terrain	Hilly	
d.	Forest Area	29.00 Sq. Kms	
e.	Climate	Dry and Cold	
f.	Average precipitation Rain/snow		
	Winter (Dec- May)	31.1 cm	
	Summer Monsoon(June-Aug)	26.9 mm	
g.	Monsoon Period	July to Sept	
h.	Average Temperatures	Min	Max
	Winter	-10.89	-18.00
	Summer	27.82	27.58

➤ Administrative Profile		
a.	Geographical Area	45110 Sq Km
b.	No & names of Tehsils	3- Leh, Nubra, Khaltse
c.	No & name of Blocks	9- Leh, Kharu, Chushot, Durbuk, Nyoma, Saspol, Khaltse, Diskit & panamik.
d.	No & names of Municipal Committees	1- Leh MAC
e.	No of Gram Panchayats	93
f.	Total No of Villages	113

Demographic Profile:			
SL No	Demography	As per 2001 census	Projection for 1 st Jan 2010
	Total Population	117232	148437
	Male	64306	81424
	Female	52926	67103
	Population Density	3 Person per SqKm	3 per SqKms
	Urban population & percentage	28639	35324,24%
	Rural Population & percentage	88593	113113,76%
	SC Population & Percentage	618	782,0.5%
	ST Population & Percentage	96174	12176,82%
	Total Number of Households	24147	
	Average size of household	5	5
	Demography of Towns		
	Total Population	28639	35324
	Male Population	17772	22503
	Female Population	10867	12821

➤ Socio Economic Profile				
j.	Literacy Rate			
		Male	Female	Total
	Urban	87.98	71.32	81.83
	Rural	70.64	47.89	59.89
	Total	75.60	52.70	65.34
k.	Sex Ratio			
		Male	Female	
	Urban	1000	611	
	Rural	1000	904	
	Total	1000	823	
l.	Working Population			
		Male	Female	Total
	Urban			
	Rural			
	Total			58125

	Temperature details	Min	Max
	Average Annual Temperatures		
	Month wise Highest & Lowest Temperature	Degree Celsius	
	Jan	0.40	-13.11
	Feb	3.98	-10.89
	March	8.47	-6.9
	April	13.78	-2.07
	May	17.82	2.05
	June	26.55	5.24
	July	25.00	11.02
	Aug	27.58	14.38
	Sep	20.83	6.64
	Oct	13.09	-1.06
	Nov	3.48	-11.02
	Dec	-0.29	-14.07

Meteorological Data at D.I.H.A.R., Leh (2010)

Month	Average Temperature °C		Temperature limits (°C)		Total Precipitation (mm/cm)
	Max	Min	Max	Min	
Jan 010	0.13	-15.39	4.5	-20.0	1.5 cm (Snowfall)

Feb 010	0.59	-10.68	7.5	-17.5	7.0 cm (Snowfall)
Mar 010	9.18	-2.26	14.5	-8.5	1.0 cm (Snowfall)
Apr 010	12.73	1.53	16.5	-3.5	1.0 cm (Snowfall) 32 mm (Rainfall)
May 010	15.58	4.66	20.0	2.5	19.6 mm(Rainfall)
Jun 010	18.27	6.85	24.0	2.0	35.5 mm Rainfall)
Jul 010	24.23	12.63	29.5	7.5	2.5 mm (Rainfall)
Aug 010	25.08	12.47	30.0	8.0	74.4mm (Rainfall)
Sep 010	20.07	7.82	27.5	2.0	12.5mm(Rainfall)
Oct 010	14.50	-1.85	21.0	-8.0	0.9 cm (Snowfall)
Nov 010	9.50	-7.92	13.0	-10.5	Nil
Dec 010	3.23	-12.97	8.0	-16.5	9.7cm (Snowfall)

Infrastructure Profile

Road Network			
		Name	Length In kms
	National Highway	Leh – Srinagar	434
		Leh - Manali	465
	PWD Roads		
	All weather Roads	-	968.92
	Fair-weather Roads	-	692.23
	Earthen Road	-	7.00
	Total Road Network	-	1668.15
	Villages connected with road		100
	Villages not connected with roads		12
	Proposed extension of road network during 08-09		-

Education			
		Govt	Private
	Degree Collages	1	-
	Higher Secondary Schools(10+2)	13	11
	High Schools	25	
	Middle Schools	129	13
	Primary Schools	183	10
	Other Schools	-	-
	ITI	1	-
	DIET	1	-
	No of Staff (inclusive permanent/casual/contractual/attached)	-	
	Teaching staff	2244	
	Non Teaching Staff		
	Total		
Health			
	District Hospital	1	
	Sub District Hospitals	1	

Emergency Hospital	-	
Sub centers (PHC)	14	
Allopathic Dispensaries	3	
Ayurvedic Dispensaries	40	
First Aid centres	99	
Private Health Centers	1	
Dental Clinics	2	
Nursing Homes	-	
Registered Medical Shops	15	
No of Staff (inclusive permanent/casual/contractual/attached)		
Rural Development Infrastructure		
Number of Community Halls		150
Number of Panchayat Ghars		93
Number of Community Information centers		5
Number of Panchayats		93
Number of Model Villages		5
Length of bridal Paths		-
Number of villages connected with bridal paths and tracks		
Number of villages not connected		12

Agriculture Infrastructure		
Total Cultivable area		10103Hects
Percentage of total area		22.36%
Single Crop		9690
Double Crop		413
Irrigated area		10103

Live Stock

S. No	Type of Live Stock	Magnitude (in Nos)
1.	Cattle	26231
2.	Dzo - Dzomo	9495
3.	Horses	5239
4.	Yak- Demo	13420
5.	Donkey	8474
6.	Poultry	6093
7.	Camel	164
8.	Others	3206

Block wise Sheep and Goats Population as on 31/3/2009 (Figs. In Nos)

Block/Year	Sheep	Goat		Others	Total
		Pashmina	Non-pashmina		
Leh	9421	3106	2234	1366	16127

Khaltsi	15556	4252	13232	-	33040
Nubra	26594	15955	34761	2237	79547
Nyoma	34939	127906	-	-	162845
Durbuk	8311	47322	-	-	55633
Kharu	3453	3052	4631	-	11136
Total	98274	201593	54858	3603	358328

Number of Medical Institutions

Year/Blocks	District Hospitals	Sub-distt. Hospitals	PHC	Dispensaries		Family Welfare Centres/ Sub-Centres	Medical Aid Centres.	Other Institutions	Total
				Allopathic	Ayurvedic				
Blockwise (2008-09)									
Leh	1	-	3	-	-	4	22	-	30
Khaltsi	-	1CHC	3	2	-	5	23	-	34
Nubra	-	1	4	-	-	4	19	-	28
Nyoma	-	-	1	1	-	4	17	-	23
Durbuk	-	-	2	-	-	3	9	-	14
Kharu	-	-	1	-	-	2	9	-	12
Total	1	2	14	3	-	22	99	-	141

Source: CMO Leh

Hospital Beds Available

Year/Blocks	Number of Beds Available in				
	Hospitals	Health Centres/ Sub Centres	Dispensaries	Others	Total
Blockwise (2008-09)					
Leh	150	30	-	-	180
Khaltsi	-	40	-	-	40
Nubra	-	70	-	-	70
Nyoma	-	10	-	-	10
Durbuk	-	20	-	-	20
Kharu	-	10	-	-	10
Total	150	180	-	-	330

Source: CMO Leh

Year/ Block	Doctors	Vaid/ Hakis/ Amchis	Nurses/ Sister	Compoun- ders	Sanitary Inspectors	Health Inspectors	Basic H Workers	Lady H Visitors	Auxulary Midwive s	Others						
										Dental Asstt	X-ray tech /Asstt	ophthalmic Asstt	Lab Tec/ Asstt.	BCG Tech.	Driver	Class IV
Blockwise (2008- 09)																
Leh	30	9	47	43	4	4	4	3	22	6	10	2	10	2	12	114
Kharu	3	-	2	11	-	-	-	-	11	1	1	-	1	-	1	16
Khaltsi	06	12	5	25	-	2	4	-	33	4	4	2	-	-	3	46
Nubra	07	2	6	28	1	1	8	-	35	5	5	1	-	-	2	55
Nyoma	02	14	2	17	-	1	3	-	20	1	1	1	-	-	2	27
Durbuk	02	3	2	10	-	2	3	-	17	2	2	1	-	-	2	17
Total	50	40	64	134	5	10	22	3	138	19	23	7	24	2	22	275

Medical Personnel Available

Source: CMO Leh

By the end of 2008-09, a network of 346 institutions of various categories are functioning which has an enrolment of 11009 students as per following details: -

S. No	Type of Institution	Magnitude	Enrolment	
			Total	Female
1	High/Higher secondary	38	3903	2304
2	Middle Schools	117	3954	2128
3	Primary schools	190	2871	1490

Coverage under Rural Water Supply Scheme

Year	As per census 2001		Coverage (Wholly/Partly)		Percentage Coverage	
	Inhabited Villages	Rural Population	Inhabited Villages	Rural Population	Inhabited Villages	Rural Population
Blockwise 2007-08						
Leh	24	32933	24	32933	100	100
Nobra	28	17367	28	17367	100	100
Khaltsi	23	17786	23	17786	100	100
Nyoma	17	8769	17	8769	100	100
Durbuk	5	4675	5	4675	100	100
Kharu	15	7063	15	7063	100	100
Total	112	88593	112	88593	100	100

Source: P.H.E. Division Leh

Social Welfare Schemes

(Amount in Lacs rupees)

Year/Blocks	Integrated Social Security Schemes (Old Age Pension)		National Family Benefit Schemes (Widows)	
	No. of Beneficiaries	Amount Disbursed	No. of Beneficiaries	Amount Disbursed
2008-09	551	10.252	441	8.994
Blockwise (2008-09)				
Leh	151	2.934	129	2.584
Kharu	101	1.864	83	1.862
Khaltsi	139	2.518	99	2.056
Nubra	67	1.228	60	1.166
Nyoma	56	1.026	47	0.882
Durbuk	37	0.682	23	0.444

Source: Social Welfare Deptt. Leh

4.HAZARD, RISK, VULNARABILITY AND CAPACITY ANALYSIS

Leh district has generally faced the following disasters and it is vulnerable to some of the natural disaster given below.

1. Cloud burst and Flood:
2. **Road Blockade due to landslides (cloud burst),Snow :**
3. Snow Avalanche
4. Earth Quake
5. Locust Menace/ Agriculture Drought

4.1 Cloud burst and Flood

Cloudburst is an extreme weather event in which very heavy rainfall occurs over a highly localised area in a very short time span. Cloudbursts in India occur during monsoon season over mountain regions in the Himalayas, north-eastern states and the Western Ghats. The associated convective clouds can extend up to 15km above the ground.

Ladakh is not known to be frequently affected by this type of phenomena but the expected period of occurrence is between June to September. Analysis by the India Metrological Department <http://www.imd.gov.in/> of satellite images for 4th – 6th August 2010 indicate that an intense convective system developed in the easterly current which is associated with the monsoon conditions over the region. The convective cloud band extended from the southeast to the northwest over Nepal and India during the afternoon of 5th August. It gradually intensified and moved west-northwest towards the Ladakh region. An intense convective cloud cluster developed to the east of Leh by 21:30 IST on 5th August.

Geologically, the region around Leh is made up of granites and loose sediments. The mountain slopes around Leh are covered in loose, unconsolidated deposits. Large fans of loose sediment, which are the product of several million years of erosion, can be observed in many locations along the banks of the Indus River. These sediments become dislodged and move rapidly when the surface layer becomes heavily saturated. The very heavy rainfall over Nimoo-Basgo and Leh on 4th – 6th August saturated the loose sediment, setting off mudslides and sand flows which travelled down-slope towards the Indus River. The destruction at locations throughout Leh district was due to the rapid movement of huge volumes of water charged with mud, boulders, trees, building debris and other objects swept up in the flow. At Choglamsar (among the worst affected areas), the debris flow travelled approximately 10km from the epicenter of the cloudburst (near Saboo), spreading up to 2km. In Leh, the debris flow travelled about 3km, from an elevation of 3800m to 3410m, confined to the catchments of Shaksaling stream. The flow destroyed settlements, the Bus Stand and the BSNL mobile communications hub, and damaged the Sonam Norboo Memorial Hospital and the radio station. The worst affected areas including Leh town are Choglamsar village, Tashi Gyatsal area of Choglamsar, Saboo village, Taru, Nimoo, Basgoo, Stakna, Shey, Arzoo Thiksay Kungam, Anlay, Nidder, Achinathang Lungba, Skurbuchan, Rezong Ulley, Tia Temisgam, Tyakshi in Turtuk area about 233 human life were lost, 424 people injured and about 79 people are still missing.

Vulnerable places:

As per past records and present study, the following villages/places are most vulnerable from cloud burst and flash flood.

6. Leh: - from Gabglies to Spituk along both side of Leh Nallah.

7. Saboo Village: - From Saboo Phoo to Choglamsar both side of Saboo Nallah.
8. Igoo-Village:- Khaspang village to Igoo Dhoo along both side of IgooNallah.
9. Phyang:- Phulung Phyang to Phey along both side of Phyang nallah.
10. Taru:- From head to tail of Taru Nallah.
11. Nimoo:- Along both side from Head to tail of Nimoo Nallah.
12. Ney/Basgoo: - Form Ney to Basgoo along both side of Ney Nallah.
13. Tia/Temisgam:-Both side along the Nallah.
14. Shila Wanla: - Along both side of Shila /Wanla Nallah.
15. Kungam: - Along both side of Kungam Nallah.
16. Anlay: - Along both side of Anlay Nallah.
17. Tingang: - Along both side of Tingang Nallah Diskit.
18. Trishi: - Along both side of Trishi Nallah Nobra.
19. Chamshen:- Along both side of chamshen Nallah.
20. Tyakshi.:- Along both side of Tyakshi Nallah.
21. Bogdang: - Bogdang Nallah Phoo to Dhoo.
22. Diskit: Along both side of Diskit Nallah at tail end.
23. Turtuk: - Along both side of Turtuk Nallah.
24. Hunder: - Along both side of Nallah.
25. Lungdo: - Along both side of Nallah.
26. Taksha: - Along both side of Taksha,
27. Nungstate/Along both side of Nallah Murgi.

4.2 Road Blockade due to landslides :

Landslides are simply defined as the mass movement of rock, debris or earth down a slope and have come to include a broad range of motions whereby falling, sliding and flowing under the influence of gravity dislodges earth material. They often take place in conjunction with earthquakes, floods and volcanoes. At times, prolonged rainfall causing heavy block the flow or river for quite some time. The formation of river blocks can cause havoc to the settlements downstream on it's bursting.

In the hilly terrain of India including the Himalayas, landslides have been a major and widely spread natural disaster the often strike life and property and occupy a position of major concern.

The two regions most vulnerable to landslides are the Himalayas and the Western Ghats. The Himalayas mountain belt comprise of tectonically unstable younger geological formations subjected to severe seismic activity. The Western Ghats and nilgiris are geologically stable but have uplifted plateau margins influenced by neo- tectonic activity. Compared to Western Ghats region, the slides in the Himalayas region are huge and massive and in most cases the overburden along with the underlying litho logy is displaced during sliding particularly due to the seismic factor.

The major parameters that call for evaluation are as follows:

- Slope-Magnitude, length and Direction
- Soil thickness
- Relative relief
- Land use
- Drainage- pattern and density
- Landslide affected population

Causes of Landslides

Landslides can be caused by poor ground conditions, geomorphic phenomena, and natural physical forces and quite often due to heavy spells of rainfall coupled with impeded drainage.

A Checklist of Causes of Landslides Ground Causes

- Weak, sensitivity, or weathered materials
- Adverse ground structure (joints, fissures etc.)
- Physical property variation (permeability, plasticity etc)

Morphological Causes

- Ground uplift (volcanic, tectonic etc)
- Erosion (wind, water)
- Scour4. Deposition loading in the slope crest5. Vegetation removal (by forest fire, drought etc)

Physical Causes

- Prolonged precipitation
- Rapid draw- down
- Earthquake
- Volcanic eruption
- Thawing
- Shrink and swell
- Artesian pressure

4.3 Snow Avalanche :

Snow cover on a slope tends to slide down the slope because of gravity. Conditions affecting stability include the gravitational force component of the snow and resisting forces, such as the frictional resistance of the slope or the anchoring effect of shrubs. In general, avalanches are caused when this balance is lost and when the forces exceed the resistance. Avalanches are rarely observed closely since they normally occur during a short time period of one or two minutes.

Major Causes - Major causes of avalanches can be classified into fixed (prime factors) and variable factors (exciting factors), such as weather conditions and the weight of the snow cover, Avalanches occur when these factors are combined. The types and scale of avalanches can differ depending on the combination of these various factors and their scale. Major prime factors and exciting factors are shown in the following table.

Major Causes of Snow Avalanches

Item	Description	Factor
Prime factors	Topographic factors	<ul style="list-style-type: none"> • Inclination of slope • Shape of slope • Location (ridge line or toe of slope) • Orientation of slope
	Vegetation factors	<ul style="list-style-type: none"> • Vegetation cover and height of trees • Vegetation cover and its thickness
Exciting factor	Weather factors	<ul style="list-style-type: none"> • Depth of snow cover • Depth of snowfall • Wind velocity • Atmospheric and snow temperatures
	Other factors	<ul style="list-style-type: none"> • Increase in weight of snow cover because of snow dropping from cornices or snow covers • Vibrations such as earthquake or the sound of gunfire

Factors Used for classification of Avalanches

Classification Factor	Classification Factor	Definition
Type of occurrence	Loose snow avalanche	Avalanches that flow rapidly, spreading widely from a point normally small in scale
	Slab avalanche	Avalanches that start to move suddenly over wide areas, normally large in scale.
Type of snow	Dry snow avalanche	Avalanches that contain no water.
	Wet snow avalanche	Avalanches that contain water.
Surface layer avalanche	Surface layer avalanche	Slip surface exists within the snow cover
	Full- depth avalanche	Slip surface occurs on the ground surface

Types of Damage

The following lists typical examples of damage to roads caused by avalanches. The scale of damage can differ depending on the scale and type of avalanche.

- Traffic blocked by snow deposited on road surface.
- Roads damaged by avalanches.
- Road structures, such as retaining walls, overturned.
- Structures damaged by an avalanche during construction of roads occur most frequently.

Types and Description of Avalanches

Dry, loose surface -layer snow avalanche	These often occur in low atmospheric temperature or during snowfalls. This type of avalanche is caused mainly by small masses of snow falling from snow cornices, tree branches or exposed rock. Dry snow moves down in loose layer.
Dry, slab surface -layer snow avalanche	These often occur when new snow with a depth of more than 10cm falls over existing snow cover during low atmospheric temperatures. Avalanches flow rapidly, taking the form of loose snow powder and often reach several kilometers down the foot of the mountain, causing serious disasters.
Dry, slab full-depth snow avalanche	Avalanche occurring in areas with low temperatures can have different mechanisms. In regions of relatively high temperatures, this type of avalanche occurs extensively when the weight of large quantity of snow falls quickly over existing snow deposits on slope at low temperatures. In cold regions, snow layers near the ground tend to become collapsible and can slide in a full depth if severe cold weather has continued for a long time. The dry new surface snow layers tend to slide in the form of snow powder and often reaches further down the foot of the mountain.
Wet, loose surface layer snow avalanche	These can be caused when a 20 to 30 cm layer of new snow layer starts to move, takes a wedge-shaped form and reduces in width. This avalanche flows smoothly as it advances.
Wet, slab surface layer snow avalanche	These can occur when temperature rises in fair weather after a snowfall when the slab snow surface layer contains water. Avalanches do not take the form of snow powder but move in a smooth flow.
Wet, slab full-depth snow avalanche	These can be caused when snow starts to melt in the early spring season and can also result if temperatures rise the winter season. It can occur either on a rainy day or on a warm day. These will not take the form of snow powder, and move in a smooth flow. This type of avalanche often causes serious disasters.

Characteristic Feature of Avalanche Movement

Powder avalanche	This type avalanche often reaches a depth of several tens of meters, taking the form of snow powder moving at a high speed. These most often occur during snowfalls at low temperature.
Flow avalanche	This type of avalanche appears to move as a flow of water over the snow surface. These are seen as full- depth avalanche occurring when atmospheric temperature increases.
Mixed avalanche	Powder type and flow avalanches occurring in combination. This type avalanche can occur quickly when large quantity of snow falls over unstable snow cover.

Estimation of Hazardous Slopes

The following actions are appropriate when avalanche hazard prone slopes are identified;

- Advise residents of avalanche risk areas using published maps.
- Afforestation programmes for areas where there is risk of avalanches.
- Trap avalanches by control measures.
- Dispose avalanche potential snow packs by artificial triggering.
- Predict occurrence of avalanches through stability analysis and issue warnings as and when necessary.
- Guide residents to emergency evacuation shelters.

There are three types of snow avalanche zones;

- Red Zone - The most dangerous zone where snow avalanches are most frequent and have an impact pressure of more than 3 tonnes per square metre.
- Blue Zone - Where the avalanche force is less than 3 tonnes per square metre and where living and other activities may be permitted with connection of safe design but such areas may have to be vacated on warning.
- Yellow Zone - Where snow avalanche occur only occasionally.

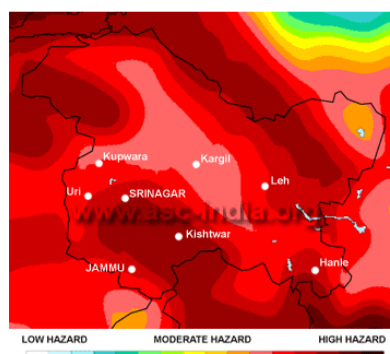
In case of Leh district there are several vulnerable areas for snow avalanche

1. Kardung La : This zone is very vulnerable as lot of snow accumulates during winter. Lot of tourists visit Nubra via kardung La from April to October. Most of the tourists visit Kardung La as through this Pass , world's highest motorable road passes. Vulnerable Period – April to June.
2. Chang La : This pass is enroute to the most famous Pongong Tso lake. Lot of tourists visit pongong from spring to autumn. Vulnerable period April to June.

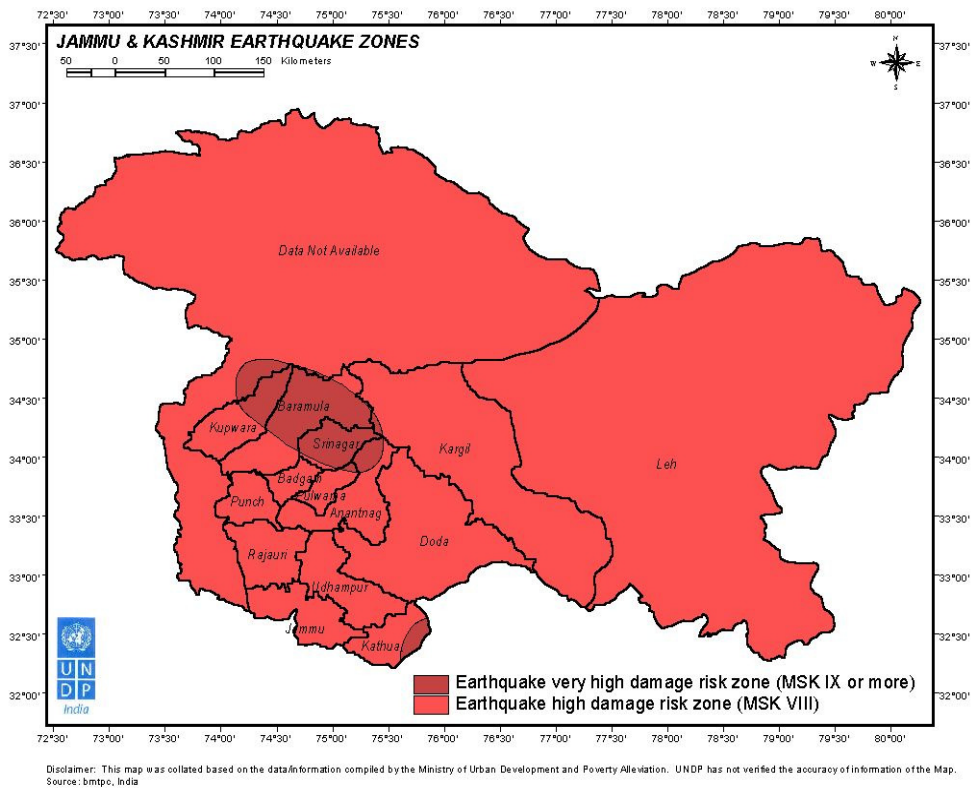
There are other zones enroute to Manali as well as Srinagar.

4.4 Earth Quake

The state of Jammu and Kashmir is in the most extension of Himalayan mountain range in comprises of Pir Panjal, Zaskar, Karakoram and ranges. The Main Bounary Thrust (MBT) the Pir Panjal range and is known as the Panjal the region. The Zaskar ranges which are part of Great Himalayan range are underlaid by the Thrust. Along the Zaskar and Ladakh ranges NW-SE trending strike-slip fault, the longest in Jammu and Kashmir area. Leh district falls in (Damage Risk Zone). However, it must be that proximity to faults does not necessarily translate into a higher hazard as compared to areas located further away, as damage from earthquakes depends on numerous factors such as sub-surface geology as well as adherence to the building codes. Eventhough, earth quake didn't strike in that past in leh district, since it is in zone IV all precautions are required to minimize the loss of life and property.



Western India. It Ladakh underlies thrust in the Zaskar runs a the zone IV stated



4.5 Drought and Locust Menace:

Drought is a temporary reduction in water or moisture availability significantly below the normal or expected amount for a specific period. This condition occurs either due to inadequacy of rainfall, or lack of irrigation facilities, under exploitation or deficient availability for meeting the normal crop requirements in the context of the agro climatic conditions prevailing in particular area. This has been scientifically computed as Moisture Index (MI). Drought, in this context, can be defined as adverse MI or adverse water balance which may be attributable not only to a prolonged dry spell due to lack or sufficient rainfall but also due to such other factors as excessive evapo-transpiration losses, high temperature, low soil holding capacity etc. The inadequacy is with reference to the prevailing agro climatic conditions in any particular area. Therefore there is a drought in Jaisalmer (Average rainfall 200mm) if rainfall is not sufficient to grow grass and paltry coarse grains, whereas in Koraput (Orissa-rainfall above 1000mm) there is drought if there is not enough rainfall for bringing the paddy crop to maturity.

Types of draught

There are three types of drought:

Meteorological Drought describes a situation where there is a reduction in rainfall for a specific period (days, months, season or year) below a specific amount (long term average for a specific time).

Hydrological Drought involves a reduction in water resources (stream flow, lake level, ground water, under ground aquifers) below a specified level for a given period of time.

Agricultural Drought is the impact of meteorological/hydrological drought on crop yield. The three drought types are completely different and not synonymous.

Agricultural drought is the common phenomenon in Leh district. It is particularly very well noticed in changthang region. In case of changthang drought situation is also caused by Locust Menace moving across the border from china. It eats away all the green parts of a plant resulting in death of plant and stuntedness and multiple branching from the base in case of tree plantation.

Man Made Disasters

Road Accident:

Melas: There are lot of melas conducted in various monasteries of Leh district. Prominent are Hemis Mela, Spituk Mela, Thicksay Mela etc. Atleast one Mela is conducted in each of the various monasteries. People congregate in huge numbers. Eventhough no incident has taken place in the past, it is very essential that precautions are to be taken to prevent the catastrophe. Presently, in these monasteries, because of huge crowd gathering and limited place to assemble people even sit in the flat tops where there is no hold. There are chances for stampede in case in there is need for sudden exit. There is need to put railings

4.6 Loss/Damage assessment during recent cloud burst/flood disaster 2010

Cloud burst disaster in the year 2010 and the damaged caused to life and property

The cloud burst happened in the intervening night between **4th-5th August 2010 at Ney, Nimoo and Basgo and** in the intervening night between **5th-6th August 2010,Leh, Choglamsar, Saboo and Phyang flash floods**

	Description	Numbers
	Number of Districts Affected	01 (Leh)
	Number of Villages Affected in Leh District	71
	Population Affected	9000 persons
2	LAND/AGRICULTURE DAMAGE	
	Total Land Area Affected	687 Hectares
	Total Cropped Area Affected	660 Hectares
	Area where crop damage was more than 50%	
3	ESTIMATED VALUES OF DAMAGE DUE TO FLOODS	
	Estimated value of damage to public properties	133.00 Cores
4	HOUSED DAMAGED IN THE FLOODS	
	Fully damaged kutcha houses	664
	Partly Damaged houses (kutcha and Pucca)	783
	Number of huts damaged	458
	Total Number of Houses Damaged	1447
	Total Number of non-residential houses	458
	Estimated Value of Damages to Houses	
5	LIVES LOST	
	Civilian Lives Lost (inclusive of foreigners)	224
	Army Personnel Lives Lost	31
	Foreigners Lives Lost	06
	Unidentified Dead Bodies	17
	Missing Bodies	29
	Number of persons with grievous injuries	195
	Number of persons with minor injuries	15
6	ANIMALS LOST	
	Number of Large Animals Lost	91
	Number of Small Animals Lost	311

Cloudburst affected 64 villages of the Leh District over the period of 4th to 6th August 2010)

- Heavy Damages to households, Government infrastructure, over 200 lives lost in Leh, Choglamsar, Saboo, Phyang
- Worst Affected Area: Tashi Gatsal, Choglamsar; Worst Affected Localities in Leh: Manetselding and Skampari
- Choglamsar Bridge on the Leh-Manali highway washed away
- 7 bridges on the National Highway washed away due to floods
- Telecommunication cut-off (BSNL Telecom washed away), internal roads heavily damaged, Water Supply heavily damaged, transmission and distribution lines damaged in 40% of the Leh area
- Hundreds of tourists stranded on the Skiu-Markha trekking route, Wanla and Rumste areas
- Visit by Hon'ble Chief Minister, Jenab Omar Abdullah to assess the situation

	Affected Area	Block/Area	Houses Damaged/ Affected
1	Skara	Leh Locality	4
2	Norgyasling	Leh Locality	6
3	Lower Skara	Leh Locality	7
4	Mistik Chulung	Leh Locality	24
5	Maney Tsermo	Leh Locality	19
6	Maney-Tsel-Ting	Leh Locality	83
7	Upper Leh/Changspa	Leh Locality	6
8	Ibex Colony	Leh Locality	3
9	Housing Colony	Leh Locality	22
10	New Leh	Leh Locality	16
11	Targyasling	Leh Locality	4
12	Nurbooling	Leh Locality	1
13	Chubi	Leh Locality	1
14	Skampari	Leh Locality	18
15	Choglamsar Village	Leh Block	36
16	Sonamling (Choglamsar)	Leh Block	38
17	Tashi Gatsal	Leh Block	233
18	Saboo	Leh Block	34
19	Phyang	Leh Block	60
20	Umla	Leh Block	1
21	Stakmo	Leh Block	2
22	Shey	Leh Block	29
23	Thiksey	Leh Block	1
24	Gya	Leh Block	1
25	Miroo	Leh Block	6
26	Spituk	Leh Block	16
27	Spang Spituk (Devachan Hotel)	Leh Block	20
28	Basgo	Leh Block	4
29	Nyemo	Leh Block	18
30	Taru	Leh Block	28
31	Skyu Kaya	Leh Block	3
32	Sumda Chenmo	Leh Block	0
33	Sumda Chugun	Leh Block	2

34	Markha	Leh Block	0
35	Ney	Leh Block	13
36	Matho	Leh Block	2
37	Rumste	Leh Block	0
38	Igoo	Leh Block	49
39	Photoksar	Khaltse Block	3
40	Urtsi	Khaltse Block	3
41	Skurbuchan	Khaltse Block	13
42	Bema	Khaltse Block	2
43	Hanu Yokma	Khaltse Block	2
44	Hanu Gongma	Khaltse Block	10
45	Kanji	Khaltse Block	7
46	Tia	Khaltse Block	9
47	Temisgam	Khaltse Block	2
48	Achinathang Longpa	Khaltse Block	10
49	Saspochey	Khaltse Block	3
50	Dipling	Khaltse Block	0
51	Hanu Patta	Khaltse Block	0
52	Lingshed	Khaltse Block	0
53	Nyiarags	Khaltse Block	0
54	Yulchung	Khaltse Block	0
55	Wanla	Khaltse Block	4
56	Skumbardo	Khaltse Block	11
57	Domkhar	Khaltse Block	8
58	Yangthang	Khaltse Block	3
59	Lamayuru	Khaltse Block	2
60	Waris-Sunudo	Nubra Block	4
61	Rongjuk-Khardong	Nubra Block	2
62	Tyakshi	Nubra Block	Property Damage
63	Turtuk	Nubra Block	Property Damage
64	Skuru	Nubra Block	Property Damage

Damage to roads and bridges

- major flood damage to 26 different roadways inclusive of link roads, airport road and internal roads
- 688.80 km damaged out of 1722 km roads (about 40%)
- 622.34 km totally under flood water, heavy sludge, slips/slides accompanied with heavy boulders
- Breaches at stretches of roads: 66.46 km
- 3 major link roads under PMGSY damaged
- 29 bridges damaged out of which 10 have been completely washed away
- 6 bailey bridges to be installed/launched at vulnerable sites on an emergency basis (Yurtung and Phyang Bridges have been installed)

Damage to irrigation systems

- Headworks of most Zamindari Khuls/Canals have been destroyed
- Heavy damages to irrigation khuls and footbridges under Rural Development Department
- Protection works on the banks of the Indus, Siachen, and Shayok Rivers are damaged

- Medium Irrigation Igoo-Phey Canal – sludge and boulders at stretches as well as damages at various sections
- Temporary restoration has been carried out, however funds are needed for permanent restoration

Damage to hospital and healthcare facilities

- Damages to Operation Theatre, Surgical Ward No. 1 and 2, Gynaecology Ward, Blood Bank, Medical Wards 1 and 2, Labour Room, OPD and C.T Scan at Sonam Norboo Memorial, Leh
- Heating system at Sonam Norboo Memorial Hospital destroyed
- DG (power) set destroyed
- Restoration of Health Department Buildings in villages and completion of E-Block at the SNM Hospital is urgently needed
- Cost of restoration of F-Block and completion of E-block estimated at Rs. 8.91 Crore
- Works being carried out by the PWD on a credit basis

Summary of compensation and funding for reconstruction and rehabilitation

For people:

- Hon'ble Prime Minister announced Rs. 1 Lakh each to the next-of-kin of the deceased and Rs. 0.5 Lakh to the seriously injured
- Hon'ble Chief Minister announced Rs. 1 Lakh each to the next-of-kin of the deceased, from the Chief Minister's Relief Fund (Rs. 1.00 Crore received in total)
- Rs. 1 Lakh also being paid out of CRF to the families of the deceased, injured being given relief as per scale laid down in CRF guidelines (Rs. 4 Crores received in total)
- Hon'ble Prime Minister's Package: Rs. 125 Crores – Rs. 2 Lakh each to the fully damaged houses and Rs. 1 Lakh to the partially damaged houses.

For reconstruction works:

- Funds for temporary restoration work: initially Rs. 3 Crore sanctioned by the State Government on 6th August under CRF; subsequently increased to Rs. 5 Crore on 9th August (released in favour of the PHE, PDD, PWD and SNM Hospital restoration works)
- Hon'ble Prime Minister's Package: Rs. 25 Crore announced out of this fund for restoration of water lifting schemes costing Rs. 7 Crores and Rs. 10 Crore for SNM Hospital (includes purchase of C.T. Scan in place of the damaged C.T. Scan; the remainder for the completion of the new E-Block; Rs. 8 Crore also allocated for purchase of DG Sets to augment the winter power supply)

4.7 CAPACITY ANALYSIS OF VARIOUS IMPORTANT DEPARTMENTS/ ORGANISATIONS

Identification of shelters:

In case of Leh district, in all the blocks there are community centres, schools and colleges, other government buildings will be utilized at the first instances in case of a disaster. People should rush to the nearest above said infrastructures in case of a disaster warning and also during disaster so that relief work will be very easier to carry out.

Alternative Building for Hospital

Since the present Hospital is in flood prone area, an earth quake safe building in the non-flood prone area has to be immediately identified and should be ready with generator, beds to evacuate patients from the present hospital and to treat the new patients etc. A theatre unit and 5 wards, emergency patient reception and first aid unit should be ready .

CAPACITY ANALYSIS OF VARIOUS IMPORTANT DEPARTMENTS

1. Health Department.

S.No	Name of the Sub-Div Block/Tehsil, Village	Category of Establishment (District Hos./PHC etc.	Official Manpower Available Doctors,Para-Medic. In each Est. area wise	Emergency Equipments/ Machinery/beds Available(within Location) Vehicles Fire Tenders, Med.Eqpts required during Emergency Wireless sets.	Stock((material/Med cines/Food items) available All the time In different go downs.	Place Where Tem. Hospitals during the occurrence of disaster can be est. such as schools, colleges community Halls(Sub-Div/Block/The/ village	Required in terms Eqp/Machinery and stocks for disaster Preparedness: Hospitals which ne to be reinforced for all type of disasters(Sub-Div/Block-Tehsil/Village)
1.	Nyoma Block	1 PHC	4 Doctor 10 Para Medics	Yes except Wireless set.(10 Beds)	Yes	Higher Sec.School Nyoma.	List enclosed
2.	23 vill. (Nyoma)	22 HC	66 Para-med	-do-	Yes	All the Community Hall	List enclosed.
3.	Tangtse Block	2 PHC	7 doctor 16 Para Med	-do- (10 Beds)	Yes	Higher sec. Schools	List enclosed
4.	Tangtse 15 vill.	13 HC	39 Para Med	-do-	Yes	All the Community Hall	List enclosed
5.	Khaltse	2 CHC	8 doctors	-do- 30 Beds	Yes	All the Community Hall	List enclosed
6.	39 vill.	2PHC 2AD 28 HC	6 doctors 90 Par-Med	-do- (10 Bed)	Yes	All the Community Hall	List enclosed
7.	Nubra Block Diskit	1 CHC	9 doctor 35 Par Med	-do- (30 Bed)	Yes	All the Community Hall	List enclosed
8.	42 Vill	4 PHC 34 HC	10 Doctor	-do- 10 Beds	Yes	All the Community Hall	List enclosed
9.	Leh/Khar u Block	1DH	25 doctor 120 Par Med	-do- 150 Beds	Yes	All the Community Hall	List enclosed
10.	43 Vill.	4 PHC	10 doctor	-do-	Yes	All the	List enclosed

		34 HC	96 Par Med	10 Beds		Community Hall	
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2. Fire and Emergency Service Station Leh-Ladakh.

S. No	Name of Sub division	Manpower available				Fire Tenders	Fire Engine	B.A sets	Wireless hand set.
		Sub Officer	Mech Driver	Fire man	Fireman				
1.	Leh	1	4	1	4	2	1	2	1

3. CO-OPERATIVE Department

S. No	Name of Sub division block	No. of Retail Sell Centers & Godown	Phone No. of the concerned person (in case of transfer frequent updating should be done)	Equip./ machinery available (with location)/ vehicles for delivery of food materials.	Stock (materials/ medicines / food items)	Requirements of additional stock vehicles in anticipation of crisis	Remarks
1.	Manager BDCS, Leh.	Four no. of Retail Sell & one Godown	251477	One vehicle is available at Leh & no any vehicle is available	All the time food items are available at every block.	No nay vehicle is available at block level during crisis.	Beside Sale Depot at blocks there are consumer sell store at village level in the Block.
2.	Coop. Con Store Nubra	One No. of Retail Sell & One Godown	220379				
3.	Cons. Store, Khaltsi	One No.of Retail Sell & One Godown	224059				
4.	Cons. Store, Nyoma	One No. of Retail Sell & One Godown	222051				
5.	Cons. Store Durbuk	One No. of Retail Sell & One Godown	Nil				

4. Consumer Affairs & Public Distributions.

S. No	Name of the sub division block villages	No. of retail sale centres & godowns	Phone No. of the concerned person (in case of transfer frequent updating should be done)	Equip./Machinery available (with locations)/ vehicles for delivery of food materials.	Stock (material/medicines/ food items/ available all the time in different godowns	Locations of godowns	Requirement of additional stock vehicle anticipation crisis.
1.	Leh block	S Centres 35 Godowns 7	01982-252376	1 Tanker 2 Swaraj	Stocks dispatched as per monthly requirement to the sale centres, besides buffer stocks available at godowns	One Skalzangling & one Phyang Leh	Additional blocks required in addition the actual requirement. Besides 2 Nos 407 load carrier & 01 K. Oil tanker needed for smooth dispatch of food grains & K. oil to the far flung areas.
2.	Nyoma block	S centres 25 Godown 01	01981-22113	Nil	Stock dispatched as per monthly requirement.	No FCI godown available	407 loading carrier needed for dispatch food grains.
3.	Khaltsi Block	S centres 38 Godown 02	01982-24061	Nil	Stock dispatched as per monthly requirement.	No FCI godown available	407 loading carrier needed for dispatch food grains.
4.	Nubra	S centres 25 Godowns 03	01980-220462	Nil	Stock dispatched as per requirement.	No FCI godown available	407 loading carrier needed for dispatch food grains.
5.	Kharu	S centres 15 Godowns Nil	_	Nil	Stock dispatched as per requirement.	No FCI godown available	407 loading carrier needed for dispatch food grains.
6.	Durbuk	S Centres 13 Godown 01	_	Nil	Stock dispatched as per requirement.	No FCI godown available	407 loading carrier needed for dispatch food grains.

5. Public Health Engineering.

S. No	Name of the Sub division, block villages	Official manpower available (area wise)	Manpower that could be made available with a short notice of one hour.	Equip/machinery available (with locations) i.e JCB, Dozers, Cranes, Buses/Vehicles, Fire, Tenders, Medical Equips required during Emergency wireless sets.	Stock (material/ medicines/ food items) available all the time in different godowns.	Temporary shelter during the occurrence of disaster such as School, Community Halls, Colleges, rest house, Gonp, Masjid, Church (Sub division/block/ Tehsil/ Village	Requirement in terms
1.	Nubra	1. Nubra AEE =1 JE=02 2. Leh/Khaltsi AEE=01 JE= 05 3. Durbuk/ Nyoma AEE=01 JE=02	Engagement of labour available in the area.	Nil	1. EC Bags 2. Craters 3. Pipe 4. Various dia	Govt. building available in the area.	1. JCB=2 Nos 2. Tipper=2 Nos 3. Pick up van=2" 4. Dewarting pump= 20 Nos 5. Generator portable=10 Nos 6. Pick axix & showel=1200 Nos 7. Search light=50 Nos 8. Gum Boot =100 Nos 9. Helmet=50 Nos 10. EC Bags. One lacs 11. Woven crate=500 Nos 12.Gabion=500 Nos

6. Animal Husbandry Department.

S. No	Name of Sub-Division Block, villages	Official manpower available (area-wise)	Manpower that could be made available within a short notice of one hour.	Equipments/machinery available (with locations) i.e JCB* Dozers* Cranes* Buses/ vehicles, fire tenders, medicals equipments required during emergency wireless sets.	Stock (Materials medicines food items) available all the time in different godowns.	Temporary shelter during the occurrence of disaster such as schools, community halls, colleges, rest houses, Gonpa, Masjit, Church (Subdivision / block tehsil/village).	Requirement of terms of equipment / machinery & stocks for disaster preparedness schools,colleges, community halls which need to be reinforced for type of disasters (sub-division/ block-tehsil/ village)
1.	Nyoma Block	1. Nyoma =4 2. Chumathang =2 3. Kungyam =2 4. Tukla =2	4 2 2 2	-	-	-	100 quintal cattle feed & 100 quintal fodder/medicine are required to meet during the disaster.
2.	Durbuk Block	1. Durbuk =2	2	-	-	-	-do-
3.	Khaltsi Block	1. Skurbuchan=2 2. Khaltsi =5 3. Tia =2 4. Temisgam =2 5. Nurla =2 6. Saspol =2	2 5 2 2 2 2	-	-	-	-do-
4.	Leh Block	1. Diseases invest. Section, Leh.=3 2. Taru =2 3. Liker =2 4. Phyang =2 5. Spituk =2 6. Gompa =2 7. Choglamsar =2 8. Saboo =2 9. Shey =2 10. Thiksay =2 11. Stakmo =2 12. Stok =2 13. Matho =2 14. Chuchot Shamma =2 15. Chuchot Yokm=2 16. Chuchot Gongma =2	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-	-	-	-do-
5.	Kharu Block	1. Martselang =2 2. Sakti =2 3. Chemday =2 4. Gya =2	2 2 2 2	-	-	-	-do-
6.	Nobra Block	1. Deskit =3 2. Terchey =2 3. Tirith =2 4. Largyab =2 5. Panamik =2 6. Sumoor =2	3 2 2 2 2 2	-	-	-	-do-

7. Agriculture Department

S. No	Name of the Block	Official manpower	Manpower available in emergency	Equipment etc. available	Stock/material available	Temporary shelter etc.	Equipment requirement
1.	Leh	9	9	Office Veh. (3) Tractor, vehicle	Nil	Farmer's hall (Agling)	Farmer's hostel, Minitruck (2Nos)
2.	Chuchot	4	4	Nil	Nil	Nil	Office building, Phone, Vehicle
3.	Khaltsi	9	Nil	Nil	Nil	Office building, Phone	Vehicle
4.	Saspol	2	2	Nil	Nil	Nil	-do-
5.	Deskrit	5	Nil	Tractor	Nil	Office building, Phone	Vehicle
6.	Panamik	2	Nil	Nil	Nil	Nil	Office building, Phone, Vehicle
7.	Nyoma	3	Nil	Nil	Nil	Office building, Phone	Vehicle
8.	Durbuk	2	Nil	Nil	Nil	Office building	Phone, Vehicle
9.	Kharu	9	5	Nil	Nil	Nil	Phone, Vehicle

8. NHPC Ltd. :Nimoo Basgo HE Project, Alchi

S. No	Name of the Sub Division Block village	Official manpower available	Manpower that could be made available within a short notice of one hour	Equipments/ Machinery available (with locations) Dosers, JCB, Cranes, Vehicle, Medical equipments required during emergency.	Stock (Material / Medical/food items) available all the time in the godowns.	Temporary shelter during the occurrence of disaster such as schools, community hall etc.	Requirement in terms of equipments / machinery and stocks etc for disaster etc.
1.	Khaltsi/ Alchi	50	25	Medical aid, i.e first aid & 5 nos of vehicle can be made available at the time of emergency.	Bar minimum	Temporary shelter for 50-60 people can be made available at the time of emergency	N/A

9. ITBP Department

S. No	Name of the unit/estt	Loc	Manpower available	Manpower could i.e made available within a short notice of one hour.	Eqpt/machinery available (with location) i.e job, cranes, buses, vehicle, fire tenders, medical eqpt required during emergency, communication facility available in each unit (phone/VHF sat phone. Etc).	Temporary shelters that can be spared during disaster	Requirements in terms of eqpt/machinery & stock for disaster preparedness
1.	5 th Bn	Leh	02 Coy	01 Coy	Eqpt-Gyanti, Balcha, Axes & Rops Med-ECG, X-Ray, Blood Test, Oxygen Cylinder & Medicines Veh-Bus/ Truck, Water Tanke, Ltd Veh.	Tentage Accommodation	Rescue/Sniffer dog, Collapsible ladder, Cutters, Rotary rescue saw.
2.	16 th Bn	Leh	200	70	Buses, Hvy Tpt vehs/Lt vehs & Amb fully eqpt & Comn facilities available i.e HF/VHF Sets.	Yes	N/A
3.	24 th Bn	Leh	200	70	Hvy Veh-02, Med Aid, First Aid, Fire Extinguisher, HF VHF Set, Working tools i.e Gainti, Belcha, Sabbal, Ice Cutter, Karabiners, Inflammable table for lighting, Water Tanker & Ropes	Tents for 80 Pers	None
4.	37 th Bn	Leh	50	30	Hvy Veh-01, M/Veh-01, VHF Sets-07, First Aid can be provided, 02 Oxygen Cylinders with medicines can be provided	Extendable Tent-17, Artic Med-04, Tent 180-04	-

10. Hindustan Construction Co. Ltd at Nimoo Basgo HEP, Alchi

S. No	Name of the Sub-Division	Official manpower available (Chalungkh, Digger, Hunder, Waris, Bogdang, Turtuk, Skuru, Terchey, Disket, Village)	Manpower that could be made available (Area Manpower available with in a short notice available as on 01/2011)	Equipments/machinery available (with locations) i.e JCB* Dozers* Cranes* Buses, Fire Engines, Fire Pumps, Fire Establishments/Plants, Medical Installations, Water points from different water sources (provided separate district Map with areas marked) (Sub-division/block/ Tehsil/Village)	Stock (material/medicines) Requirement in terms of Equipments, Machinery and goods for disaster preparedness (Nos of new establishments needed) (Sub-Division/block/ Village)	Temporary shelters during the occurrence of disaster (KVA DG set, trolley mounted, schools, community halls, colleges, TATA Mobile, Masjit, Church, Subdivision/ block- Tehsil/ Village)	Requirements in terms of DG set, trolley mounted, schools, community halls, colleges, TATA Mobile, Masjit, Church, Subdivision- block-tehsil/ Vilalge)
1.	M/s Hindustan Construction Co. Ltd Nimoo Basgo HEP	100 (Winter)	20	Wheel Loader -02, Dozer -02, Tower Cranes -03, Fusion Crane -1, Bus-02, Medical Equip. -01, Wireless sets-04,	02 Months	a) 40 KVA DG set trolley mounted = 1 No. b) ST Poles & other allied materials=200	
2.	M/s Hindustan Construction Co. Ltd Nimoo Basgo HEP	100 (Summer)	50	Wheel Loader -02, Dozer-02, Tower Cranes -03, Fusion Crane-01, Bus-02, Medical Equip.-01, Wireless sets-04.	02 Months	a) 40 KVA DG set trolley mounted= 1 No ST Poles & other allied materials=200	
3.	Leh	Rumbak, Spituk, Phyang, Ney, Basgo, Nimmo, Umla, Taru, Saboo, Choglamsar, Thiksay, Rambirpur, Stkna, Shey, Nang, Matho, Stock, Chuchot, Gongma, Shama, Yokma	26	22	-	-	a) 40 KVA DG set trolley mounted=3 Nos b) ST Poles & other allied materials=1000 c) Diesel Tanker= 1 No.
5.	Durbuk	Durbuk, Tangste	6	5	-	-	a) 40 KVA DG set trolley mounted=1 No b) ST Poles & other allied materials= 100
6.	Nubra	Chalungkh, Digger, Hunder, Waris, Bogdang, Turtuk, Skuru, Terchey, Disket,	16	10	-	-	a) 40 KVA DG set trolley mounted=1 No b) ST Poles & other allied materials=200 c) TATA Mobile= 1 No

N

7.	Panamik	Lakjung, Panamik, Chamshen, Sumoor KHEME	6	-	-	-	a) ST Poles with allied materials=100
8.	Nyoma	Chumathang, Kungyam, Teri, Anlay, Siktamang, Liktsay, Tukla, Mudh, Nyoma, Hemiya, Korzok	16	15	-	-	a) 40 KVA DG set Trolley mounted=1 No. b) ST Poles & other allied materials=200
9.	Kharu	Igoo, Shara, Gya, Upsi, Phuktsey, Che	18	16	-	-	a) ST Poles & other allied materials=200

11. Electric and M&RE DIV ISIO

		mray,Kharu,Sakti, Martselang,Chang a,Nang,Meru,Hemi s					
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12: Irrigation and Flood Control

S. No	Name of the Sub-Division block villages	Official manpower available (Area wise)	Manpower that could be made available with in a short notice of one hour	Equipments/machinery available (with locations) i.e JCB* Dozers* Cranes* buses/ Vehicles, Fire Tenders, Medical Equipments requirement during emergency, wireless sets.	Stock (material/medicines items) available all the time in different godowns	Temporary shelters during the occurrence of disaster such as schools, community halls, colleges, rest houses, Gonpa, Masjid, Church (Subdivision/block- Tehsil/ Village)	Requirements in terms of eqpt/machinery & stocks for disaster preparedness, Schools, Colleges, Community Halls which need to be Reinforced for all type of Disaster (Sub-division-block-tehsil/ Vilalge)
1	Nubra	1. Nubra AEE= 1 JE = 2 2. Leh/ Khaltsi AEE=1 JE = 5 3.Durbuk/ Nyoma AEE= 1 JE= 2	Engagement of labour available in the area	Nil	1. E.C Bags 2. Crates 3. Pipe 4. Various dia	Govt. building available in the area.	1. JCB = 2 Nos 2. Tipper = 2 Nos 3. Pick up Van= 2 Nos 4. Dewarting pump= 20 Nos 5. Generator portable=10 Nos 6. Pick Axis and Shovel – 1200 Nos 7. Search Light=50 Nos 8. Gum Boot =100 Nos 9. Helmet = 50 Nos 10. E.C Bags= 1 lacs 11. Woven Crates= 500 Nos 12. Gabion = 500 Nos

13: Municipal Committee, Leh

S. No	Name of the Sub-Division block villages	Official manpower available (Area wise)	Manpower that could be made available with in a short notice of one hour	Equipments/machinery available (with locations) i.e JCB* Dozers* Cranes* buses/ Vehicles, Fire Tenders, Medical Equipments requirement during emergency, wireless sets.	Stock (material/medicines items) available all the time in different godowns	Temporary shelters during the occurrence of disaster such as schools, community halls, colleges, rest houses, Gonpa, Masjid, Church (Subdivision/block- Tehsil/ Village)	Requirements in terms of equipments/ machinery and stocks of disaster.
1.	MC Leh	1. Office Staff=29 2. Field Staff=41 3. C/ Labour=42	All	1. JCB = 1 No 2. Loader = 1 No 3. Tipper = 4 Nos 4. Mini Tipper= 1 No 5. TATA 207 = 1 No 6. Tractor 7. Recovery 8. Gypsy	Tools and Plants 1. Shovels 2. Pick Axe 3. Jabal 4. Hand Crate 5. Wheel barrow		Funds for purchase of snow clearing/ cutter machine.

14: Army, GH, Leh

S. No	Name of the Sub-Division block villages	Category of Establishment (District Hospital / PHC etc.)	Official / manpower available Doctors Mid Wives in each establishment (area wise)	Emergency Equipments/machinery/beds available (with locations), vehicles, fire Tenders, Medical Equipments required during emergency wire less sets.	Stock (material/medicines items) available all the time in different godowns	Place where Temporary Hospitals during the occurrence of disaster such as schools, community halls, colleges, rest houses, Gonpa, Masjid, Church (Subdivision/ block- Tehsil/ Village)	Requirements in terms of equipments/ machinery and stocks of disaster preparedness hospitals which needs to be reinforced for all type of disasters (Sub division/ blocks / tehsil / village)
1.	Leh	153 General Hospital Distt. Leh (J&K)	Doctors = 15 Nursing Officer = 10 Ward Sahayaka = 5 Specialist:- Medicine = 1 Surgery = 1 Anae = 1 Radiologist = 1 ENT Spl. = 1 EYE Spl. = 1 Skin Spl. = 1	1. Bedds = 210 2. Crisis Bed = 170 Total Beds = 386 Emergency Equip/ Machinery 1. Suction Apparatus 2. Laryngoscope 3. Ambu Bag 4. Deffibrilator with Cardiac monitor 5. Pulse Oximeter 6. Nebulizar 7. Ventilator 8. BP Apparatus 9. X-Ray machine 10. Ultra Sonograph colour Doppler 11. CT Scan machine 12. O2 Concentrator 13. Various type Splint 14. Anaesthesia machine 15. Ambulance = 03 16. Wireless Sets = Nil 17. Fire Tenders = Nil	1. Medical Store 2. QM Stores (Ration Store)	1. Dhanvantry Hall 2. Crisis Ward	1. Ambulance = 6 Nos 2. Wireless Sets = 10 Nos 3. Generator = 4 Nos

15: Chief Education Office, Leh

S. No	Name of the Sub-Division block villages	Official / manpower available Doctors Mid Wives in each establishment (area wise)	Man power within Short notice of one hour nearest schools	Name of the nearest Schools	Remarks
1.	Education Zone Leh	760	100	1. Degree College, Leh 2. HSS Boys, Leh 3. HSS Girls, Leh 4. Chuchot Shamma 5. HSS Sakti 6. H/S Phyang 7. H/S Nimoo	The Schools building needs to be strengthened

2.	Education Zone, Khaltsi	421	50	1. HSS Khaltsi 2. HSS Temisgam 3. HSS Skurbuchan 4. H/S Domkhar	
3.	Educational Zone Nubra	340	50	1. HSS Diskit 2. HSS Turtuk 3. HSS Bogdang 4. HSS Sumoot 5. H/S Panamik 6. H/S Hunder	
4.	Educational Zone Nyoma	250	30	1. HSS Nyoma	
5.	Educational Zone Durbuk	123	20	1. HSS Tangtse 2. H/S Chushul	

16. PUBLIC HEALTH ENGINEERING DIVISION

S. No	Name of the Sub-Division block villages	Official manpower available (Area wise)	Manpower that could be made available with in a short notice of one hour	Equipments/machinery available (with locations) i.e JCB* Dozers* Cranes* buses/ Vehicles, Water tankers, Sintex Tanks etc.	Type of Temporary arrangement that can be made fro drinking water supply in each sub- division, Blocks, Village level.	Requirements in terms of eqpt/machinery (Water tanks, Sintex tank) and stocks for disaster preparedness (Sub –division/ blocks/ tehsils/village. level.
1.	PHE Sub Division Leh	AEE = 1 JE = 1 Lineman = 34	All	12 Nos (Water Tankers) 1 No Gypsy 1 No Tipper	Leh =9 Nos Tankers	3 Nos Water tankers
2.	PHE Khaltsi	AEE = 1 JE = 2 Lineman = 33	Nil		Khaltsi=1 No Tanker	3 Nos Water Tanker
3.	PHE Sub Division Nubra	AEE = 1 JE = 2 Lineman = 12	Nil		Nubra = 1 No Tanker	3 Nos Water Tanker
4.	PHE Sub Division Kharu	AEE = 1 JE = 2 Lineman = 7	Nil		Kharu = Nil	3 Nos Water Tanker
5.	PHE Sub Division (Mech)	AE = 1 JE = 3 Driver = 3 Optr = 3 Lineman = 4			Nyoma = 1 Tanker	3 Nos Water Tanker

17: District Police, Leh.

S. No	Name of the unit/ establishment	Location	Manpower available	Manpower that could be made available within short notice of one hour	Eqpt/machinery available) with location) i.e JCB, Dozers, Cranes, Buses/ Vehicle, Fire tenders, Medical Eqpt regarding during emergency, communication facility in each unit (Phone/ VHF/ Sat Phone, etc.	Temporary shelters that can be spared during disaster.	Requirements in terms of Eqpt / Machinery and for disaster preparedness	Remarks
1.	Distt. Police, Leh	District Police Lines Choglamsar	80 Personnels	30 Personnels	<p>Vehicle:</p> <ol style="list-style-type: none"> 1. Bus = 2 Nos 2. Trucks=2 Nos 3. Ruby Bus=4 Nos 4. Troop carriers (407)=4 Nos 5. Ambulance=1 No 6. Water Tanker= 1 No 7. M. Cycle-2 Nos 8. Gypsy=4 Nos <p>Eqpt:</p> <p>Shovels 15 Nos Pic Axe (Gainti)=20Nos Rope=160 Mtrs.</p> <p>Medical:</p> <p>One MI room with First Aid facility</p> <p>Communication:</p> <p>HF/VHF sets at P/S's Nyoma/ Nubra, P/P's Turtuk/Chushul/ Khaltsi/ PCP's Tangtse/ Upshi/ Kharu/ South Pollu/ North Pollu etc.</p>	<ol style="list-style-type: none"> 1. Tent 16X16= 11 sets. 2. Tent DF Big size= 02 Nos 	<ol style="list-style-type: none"> 1. JCB = 1 No 2. Dozer=1 No 3. Heavy Duty Steel cutter=1 No 4. Tent 16X16 = 20 Nos 5. Axe (Gainti) = 50 Nos. 6. Shovels = 5 Nos 	

4.8 Non-Governmental Organisations who assisted with post-flood relief operations in Ladakh

1. Indian Red Cross
2. CII
3. Ladakh Ecological Development Group (LEDeG)
4. Ladakh Environment and Health Organisation (LEHO)
5. Save the Children India
6. AIDMI
7. WWF India
8. Bond
9. CASA Mountain Forum Himalayas
10. Oxfam India and Rural Development and You
11. Medecins Sans Frontieres
12. Care Today
13. CENSFOOD
14. Centre for Environment and Education
15. EFICOR
16. Gaden Relief
17. GERES
18. Handicap International
19. Himalayan Cultural Heritage Foundation
20. INTACH
21. Ladakh Arts and Media Organisation
22. Ladakh Relief
23. Lutheran World Relief Service
24. PAGIR
25. People's Action Group for Inclusion and Rights
26. Pragya
27. SAMARPAN Foundation
28. SECMOL
29. SEEDS India
30. Snow Leopard Conservancy India Trust
31. Tibet Heritage Fund
32. Welthungerhilfe – Mahabodi International Meditation Centre

Additionally, CORDAID, Christian Aid, Plan India, World Vision, DCA, CRS and CARITAS – awaiting detailed assessments from partner agencies before intervention action.

5. INSTITUTIONAL MECHANISM

5.1 COMMITTEES AT DISTRICT, SUB-DIVISIONAL AND TEHSIL LEVEL

(5.1.1) DISTRICT LEVEL DISASTER MANAGEMENT COMMITTEE.

1. Deputy Commissioner, **Chairperson**
2. Additional Deputy Commissioner; **Chief Executive Officer**
3. Senior Superintendent of Police - Member
4. Divisional Forest Officer - Member
5. Superintending Engineer (PWD) - Member
6. Superintending Engineer (PDD) - Member
7. Superintending Engineer (PDC) - Member
8. Telephone District Manager- Member
9. Chief Medical Officer- Member
10. Administrator, Municipal Committee- Member
11. Chief Animal Husbandry Officer- Member
12. District Sheep Husbandry Officer - Member
13. Executive Engineer, Irrigation and Flood control- Member
14. Executive Engineer, Public Health Engineering- Member
15. Executive Engineer, Roads and Building- Member
16. Asst. Director, Consumer Affairs and Public Distribution- Member
17. Dy SP, Civil Defence - Member
18. Deputy Director, Motor Garages - Member
19. OC, Fire Services- Member
20. Dist. Youth Services and Sports- Member
21. Incharge, NSS, EJ Memorial Degree College- Member
22. Asst. Commissioner, Revenue- **Member Secretary.**

From ARMY and other Para-military Forces

23. Nodal Officer, representing Air force-- Member
24. Nodal Officer representing Army (14 Core) - Member
25. Nodal Officer, ITBP representing DIG- Member
26. Nodal Officer representing Chief Engineer Himank-- Member
27. DCO, CRPF- Member

NON-OFFICIAL MEMBERS.

- Elected representatives of the area.
- One member each from the NGOs.
- Five Prominent citizens of the District having no affiliation to any party

(5.1.2)SUB-DIVISIONAL LEVEL COMMITTEE.

1. Sub Divisional Magistrate -**Chairman**
2. Dy. Superintendent of Police - Member
3. Executive Engineer/AEE, R&B - Member
4. Sub Divisional Officer, Telecom- Member
5. Block Medical Officer- Member
6. Zonal Education Officer- Member
7. Asst Director, Co-operative Department- Member
8. AEE/JEE Irrigation and Flood control- Member
9. AEE/JEE Public Health Engineering- Member
10. Range Forest Officer - Member
11. Inspector, Consumer Affairs and Public Distribution- Member

12. Officer in-charge, Sheep and Animal Husbandry depts. – Member
13. Tehsildar/BDO- **Member Secretary**

From ARMY and other Para-military Forces

14. Representative of Brigade Command of the Sub-Division- Member
15. Nodal Officer, ITBP representing the Command Unit- Member
16. Representative of Road construction company (RCC) - Member

NON-OFFICIAL MEMBERS.

- Elected representatives of the area.
- One member each from the NGOs.

(5.1.3) Tehsil/Block Level Disaster Management Committee

1. Tehsildar – Chairman
2. SHO - Member
3. AEE/JEE, R&B - Member
4. Junior Telecom Engineer - Member
5. Medical Officer- Member
6. Zonal Education Officer- Member
7. AD, Co-operative Dept/Inspector- Member
8. AEE/JEE Irrigation and Flood control- Member
9. AEE/JEE Public Health Engineering- Member
10. Range Forest Officer - Member
11. Inspector, Consumer Affairs and Public Distribution- Member
12. Officer in-charge, Sheep and Animal Husbandry depts. – Member
13. Naib Tehsildar- **Member Secretary**

5.2 RESPONSIBILITIES OF INDIVIDUAL OFFICERS

DC/ADC

- ⊕ Assigning specific responsibilities different agencies.
- ⊕ Coordination with all line department & other army, para military and PSUs.
- ⊕ Establishment of Centralized control room with active communication facilities for liasioning with police, army, para military, SDMA, NDMA etc.
- ⊕ Have a list of Resources Inventory, Capacity analysis.
- ⊕ List of cut off areas with safe route map for communication.
- ⊕ List of storage facilities, dealers, of food.
- ⊕ Control room setup/assignment of control room duty.
- ⊕ Pre-posting of staff for site operation centers.
- ⊕ Arrangement of vehicles/boats for evacuation.
- ⊕ Arrangement of alternative communication/generator sets etc.

SUPERINTENDENT OF POLICE

- ❖ Communication establishment with District and Block/ Tehsil Control rooms and departmental offices within the division.
- ⊕ An officer to be appointed as nodal officer on his behalf.
- ⊕ Overall traffic management and patrolling of all highways and other access roads to disaster sites
- ⊕ Identification of antisocial elements and prevention of crime
- ⊕ Provision of security in transit camps/feeding centers/relief camps/cattle camps/cooperative food stores and distribution centres.
- ⊕ Providing assistance to district authorities for taking necessary action against hoarders, black marketers and those found manipulating relief material.
- ⊕ Coordination with military personnel in the area being carried out under relief operation

Providing assistance to the community in organizing emergency transport or injured

SE, PUBLIC WORKS DEPARTMENT

- ⊕ Communication establishment with District and Block/Tahsil Control Rooms and departmental offices within the division
- ⊕ An officer to be appointed as nodal officer
- ⊕ Arrangement of extra vehicle/ heavy equipments, such as front-end loaders/towing vehicles, earth moving equipments, cranes etc.
- ⊕ Inspection and emergency repair for roads/roads bridges/ underwater inspection/ piers/concrete and steel works.
- ⊕ Emergency inspection by mechanical engineer of all plant and equipments
- ⊕ Clearance of blocked roads
- ⊕ Community assistance mobilized for road clearing.
- ⊕ All staff informed about the disaster, likely damages and effect.
- ⊕

SE PDD

- ⊕ Communication establishment with District & Block /Tahsil control rooms and departmental offices within the division
- ⊕ An officer to be appointed as nodal officer

- ⊕ Standby arrangements for temporary electric supply or generators
- ⊕ Inspection and repair of high-tension lines/ substations / transformer / poles etc.
- ⊕ Clearing of damaged poles/salvaging of response operations.
- ⊕ All Staff informed in formed about the disaster, likely damage and effects

ADC/AD CA&PD

- ⊕ Identification of Block & District Head Quarter.
- ⊕ Keeping list of Whole sell traders of local market.
- ⊕ List of private persons having JCBs and other earth movers etc.,
- ⊕ List of storage agent's with quantity of monthly allotment & uptake.
- ⊕ Detailed data on beneficiary
- ⊕ List of Petrol pump dealer
- ⊕ List of Medical Shops.
- ⊕ List of traders dealing with temporary shelters materials
- ⊕ Division of essential commodities to affected pockets as & when requisition.

CMO

- ⊕ Communication establishment with District and Block/Tahsil control rooms and departmental officers within the division
- ⊕ An officer to be appointed as nodal officer
- ⊕ Stockpiling of live saving, anti-Diarrhoeal drugs, de-toxicants, anesthesia, adequate drinking water
- ⊕ Arrangement of ambulance/generators
- ⊕ In-house emergency medical teams to ensure that adequate staff available at all times to handle emergency casualties.
- ⊕ Listing of private health facilities
- ⊕ Strengthening of disease surveillance
- ⊕ Formation of mobile units and ensure communication with them.
- ⊕ Identification of sites in probable disaster areas for site operation areas
- ⊕ Awareness generation

- ⊕ All Staff informed about the disaster, likely damages and effects

CAHO/DSHO

- ⊕ Communication establishment with District and Block/ Tahsil Control Rooms and departmental offices within the division
- ⊕ An officer to be appointed as nodal officer
- ⊕ Listing of animal population with category
- ⊕ Stock pilling of emergency medicines and medical equipments
- ⊕ Arrangement of anesthetic drugs/vehicles for transport of injured animals
- ⊕ Identification of places for opening of operational sites
- ⊕ Stocking pilling of water, fodder, animal feed
- ⊕ All Staff informed about the disaster, likely damages and effects

Executive Engineer, PHE/ RURAL SANITATION

- ⊕ Communication establishment with District & Block control rooms and departmental offices within the division
- ⊕ An officer to be appointed as nodal officer
- ⊕ Arrangement of water tankers and other temporary means of distribution and storage water
- ⊕ Adequate arrangement to provide water to relief camps/affected villages, alternate water supply arrange in feeding centers/cattle camps etc.
- ⊕ Identification of appropriate potable water supply
- ⊕ All Staff informed about the disaster, likely damages and effects

Executive Engineer ,IRRIGATION & FLOOD CONTROL

- ⊕ Communication establishment with District and Block/Tahsil Control Rooms and departmental offices within the district.
- ⊕ An officer to be appointed as nodal officer.
- ⊕ Activation of flood monitoring mechanism
- ⊕ Methods/ Communication arrangement of altering officers on various sites established
- ⊕ Mechanism evolved for forewarning settlement in the down stream/ evacuation/ coordination with other dam authorities.
- ⊕ Identification of materials required for response operations.
- ⊕ Repairs/under construction activity are well secured

- ⊕ Watch and ward of weak embankments & stock piling of repair materials at vulnerable points
- ⊕ Guarding of weak embankments.
- ⊕ All staff informed about the disaster, likely damages and effects

BDOs/TEHSILDARS

- ⊕ Vulnerability map of the Block/ Tahsil.
- ⊕ List of cut off areas with safe route map.
- ⊕ List of Storage facilities, dealers of food.
- ⊕ Control room setup/assignment of control room duty
- ⊕ Pre-positioning of staff for site operation centers.
- ⊕ Arrangement of alternative communication / generators sets etc.
- ⊕ Arrangement of vehicles.
- ⊕ Dissemination of warning/ coordination with District control room.
- ⊕ Ensuring coordination with the Village committee.

CAO,AGRICULTURE

- ⊕ Communication establishment with District and Block/Tahsil Control Rooms and departmental offices within the division
- ⊕ An officer to be appointed as nodal officer
- ⊕ Information provided about the disaster and likely damages to cropland plantation
- ⊕ Organized transport , storage and distribution of seeds/fertilizers/pesticides
- ⊕ Surveillance for pests and diseases being carried out.
- ⊕ Identification of different areas to be affected by different hazard
- ⊕ Listening of irrigation sources with status.
- ⊕ All staff informed about the disaster, likely damages and effect.

TELECOMMUNICATION BSNL/Airtel/Aircell

- Communication establishment with District and Block/Tahsil Control Rooms and departmental offices within the division

- Providing immediate communication through various means like DSBT/Satellite Phone to control rooms etc.
- An officer to be appointed as nodal officer
- Standby arrangements for temporary electric supply or generators
- Inspection and repair of poles etc.
- Identification of materials required for response operations.
- All staff informed about the disaster, likely damages and effect.

5.3 Institutional Mechanism and SOP during various phases of Disaster

Cloud Burst/Flash Flood and River Swell

5.3.1 PRE DISASTER PERIOD

PREPARATION	OBJECTIVE	ACTION
Convening District level Committee on Natural Calamity – in the month of May-June	To suggest the least of Relief works to be undertaken, advise on the precautionary measures to be taken, for stocking of food articles in strategic or key points.	DC/ADC
Identification of vulnerable points	→Stocking of the sand bags →Altering people near Highly vulnerable pocket.	Main Actor ->SDMs [Reporting & Monitoring] Sub-Actors- Ex-Engg. Irrigation & Flood Control Tehsildars,
Identification & Indent of essential commodities the inaccessible/scarcity pockets	→Stocking of food grains in Block Head quarter.	Identification-SDMs & AD,CAPD,DR Co-ops.
Selection of shelters	Connection Road Maps, Served Villages with capacity, suitable management.	SDMs/BDOs to manage the shelters through local management. SE, PWD And CEO will co-ordinate
Requirement of medicine and life saving drugs, earmarking mobile teams, identifying probable epidemic area	Stocking of medicines	C..M.O. AND BMOs

Arrangement of Food and fodder for bovine population	Stocking of the same	CAHO.
Checking operation of already VHF systems		Dy SP, Communications
Monitoring	To take stock of overall situation	DC/ADC

5.3.2 IMMEDIATE PRE-DISASTER

PREPARATION	OBJECTIVE	ACTION
Receipt of information	→ Police Control Room. → Also from News Buellton of All India Radio & Doordarshan → From Internet Website	DCR
Dissemination of Information	→From DCR to All SDMs/Tehsildars/BDOs/ All Line Departments	DCR [Emergency] - Head of Line Departments, SDMs, Tahsildars, BDOs,
Immediate setting of Control Room round the clock & making it functional.	→All Line Departments, SDMs, Tahsildars, B.D.Os	DCR [Emergency], Head of Line Departments, Sub Collectors, Tahsildars, B.D.Os.,
Rescue and evacuation	→To evacuate vulnerable people to identified shelters for the time being and logistic arrangement for the shelters	Units: Police personal, Armed Forces, OC, Fire services, Volunteers of Civil Defence, ADC and SDMS.
Arrangement of Free kitchen	→To provide immediate fooding to the evacuees.	SDMs/BDOs.
Sanitation and medicine		CMO/Executive Engineers of PHE
Requisition of sufficient numbers of vehicle, Light/Medium/Heavy.	→To be kept in readiness with POL	DDMG/ARTO & SDMs
Immediate freezing of 75% stock of POL Bunkers in the district ,	POL is to be used during the time Disaster followed by scarcity	AD ,CA&PD
Arrangement of Road Cleaners/Power saw etc	To clean the road, cut the fallen and remove the garbage	SE ,PWD :to be arranged with mechanical division –.
Trucks loaded with the Generators	To move to the field immediately after the disaster is over	DDMG/RTO

5.3.3 DURING DISASTER

PREPARATION	OBJECTIVE	ACTION
Alertness & Remain in readiness to gear up in action immediately after the disaster is over	Listening to Radio, watch Television etc	All Actors in Disaster Management
Control Room to Functioning Day & Night		District Control Room, All Line Dept.. All SDMs, BDOs, Tehsildars
Monitoring	To stake of overall situation	DC at District level SDM at Sub-Division level

5.3.4 POST DISASTER

FOLLOW UP ACTION	OBJECTIVE	ACTION
Distribution of Relief / Emergent Relief as per the provision of centre/state guidelines	To provide immediate flooding to save affected people from starvation	SDMS, BDOs, Tehsildars Other Govt & non-Govt. agencies.
Assessment & enumeration of damage	To ascertain the exact loss for projection before Govt.	All line Department/ Tehsildars/BDOs Coordination
Monitoring Relief Operation organized by outside agencies /UN Agencies/ Red Cross/NGOs / PSUs / other states etc through District Administration.	To maintain uniformity of Relief administration.	DC at District level & SDMs at sub Divisional level
Restoration of Communication – Roads	For timely and prompt Delivery/transportation of relief articles/deployment of rescue team	Executive Engineer of R&B, Rural Works, ARMY, ARMY & Para Military Forces. Police Personnel

Restoration of Electronic communication system	To ensure proper coordination linkage	Tech. Director NIC, BSNL/ Police Signals
Immediate arrangement of free kitchen in the cut off /shelter camps and inaccessible areas.	To avoid starvation and further deterioration both health and environment	SDMs/BDOs/Religious Org /NGOs
Ensuring transportation of Relief Materials to affected pockets.	To reach immediately after abatement of calamity with helping hands for development of confidence among affected people.	SdmS/BDOs/ARTO
Ensuring safeguarding of belonging of the evacuees & maintenance of Law and Order.	To prevent anti-social activities	SSP
Ensuring safe availability of Drinking water. Provision of Medical facilities and Minimum sanitation.	To check health hazards especially during calamity	CMO/Executive Engineers of PHE
Removal of debris and disposal of carcasses.	For environmental equilibrium	Municipality/Police personnel/ NGOs
Helping the evacuees to return to their homes.	For settlement of the evacuees with their belongings after normalcy	SDMs/BDOs/NGOs
Special care to Children, Lactating Mothers, Old & infirm.	To prevent deterioration of health and multiple complicacy afterwards affecting humanity	SDMs/BMOs/DSWO/NGOs
Meeting Officers of both District level and Field level in every 24 hours to take stock of the situation.	For better coordination and cordial carrying of every kind of relief operation and to ascertain the progress thereof.	DC at District level and SDM in Sub Divisional level
Documentation of the entire event by Black & White/Audio & Video	Official record	
Collection of information by a core group of DCR and submission of daily situation report to Govt./SDMs/NDMA through DC keeping Liaison with field And state Govt. and interaction.	Functional linkage between Field, District and State Control Room and other bottlenecks for proper implementation of relief/restoration/rehabilitation programme	ADC/SDM/Tahsildars/BDOs/ DM & ADM Dist. Convener, NGOs

5.3.5 DRINKING WATER FOR PEOPLE

		Directly Responsible	Sub Division Monitor	District Monitor
Drinking Water for people	Repair within 48 hours of receiving of a complaints at Block/ PHD/RSWSS office	JE, PHE	SDM	Executive Engineer, PHE
Stand Post repair	Response must be prompt/immediate	Concerned AE/JE	SDM	Executive Engineer, PHE

Important Note: The EE of PHE should ensure drinking water supply through tankers in the scarcity pockets un interruptedly and the concerned

5.3.6 PUBLIC DISTRIBUTION SYSTEM

ISSUES		Directly responsible	Sub Division Monitor	District Monitor
Market rates	To keep close watch on rates of essential commodities and report deviations.	AD, CA&PD/Inspector of Supplies	SDM	ADC
Off take / Lifting	Inspector of Supplies of the Block must see off taking to retail	AD, CA&PD Inspector of Supplies	SDM	ADC
Rice, Wheat, Atta for Hat sale	Concerned Inspector of Supplies of the respective hat area will look this if situation demands	AD,CA&PD Inspector of Supplies.	SDM	A.D.M.

EPIDIMIC CONTROL AND ANIMAL DISEASES

	Directly responsible	Sub Division Monitor	District Monitor
In case of epidemic in a locality, the C..M.O. and his staff must get into action on war footing	Medical Officer	BMO.	CMO.
Animal diseases In case of epidemic of animals in the areas , the CAHO shall act on war footing	Vet. Officer	BMO	CMO

5.4 DISTRICT CONTROL ROOM & LINKAGES WITH OTHER CONTROL ROOMS

Co-ordination and linkage with District level officer and field officers

S. No	Time	Coordination Linkage
1	PREPAREDNESS	Considering the gravity of situation the Deputy Commissioner shall convene the district level National Calamity Meeting when ever required.
2	Pre-crisis After warning	<ul style="list-style-type: none"> • Meeting with district level officials/Officials at Head quarter and chock out emergency plan with vulnerable areas and resource list • Co-ordination meeting of NGOs/Rural institutions • Assignment of duties. • 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.
3	During crisis	<ul style="list-style-type: none"> • Co-ordination meeting with official 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 • Keep informing AD,CA&PD for supply of food articles /procuring from FCI/Whole sellers. • Deputation of Volunteers to different probable affected areas. • Keep regular link with Control Room
4	Post Crisis	<ul style="list-style-type: none"> • 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 drinking water. • Provision of Medical facilities. • Repair/Restoration of Roads. • Transportation of Relief and Human Resources. • Regular touch with State AuthoritiesSDMA,NDMA etc

ARRANGEMENTS IN THE DISTRICT CONTROL ROOM.

Ensure that the DCR is equipped with

- District Disaster management Plan.

- District maps showing identified School Building/Shelters
- School Building and High elevated places identified as shelters.
- List of Resources Persons with contact address.
- Data base on Resources & Inventory.
- First Aid & other basic medical assistance.
- One retiring room with adequate facilities.
- Generator sets./Emergency light /Candles etc.
- Telephone, Fax,Satellite phones, telephonic linkage with Army, Para-military like ITBP, CRPF etc.
- P.C. in order with Printer & Modem.
- Thermometer, Fire extinguisher, White Hard board & soft board.

NORMAL TIME ACTIVITY.

- Organizing IEC activity through walling, Poster, street plays, village task force/ Volunteers training.
- Emphasizing on insurance coverage of livestock / crops/industry/ works shop etc.
- Creating awareness among general public during normal time to insure human life.
- Strengthening of weak and vulnerable points in river/canal embankments’.
- Updating of Disaster Management Plan on the basis of past experience
- Inventory of resources to be updated
- Advance preparatory/mock drills through, Civil Defence Volunteers/Institutions/NGOs on management of Disaster
- Ensure proper functioning of electronic communication systems available
- Arranging meeting of Sectoral Departments/Police/Army/Para military/NGOs with specific assignment of responsibility in particular sector
- Updating District Disaster Management Plan with the help of NDMA/SDMA/IMPA
- Updating of Telephone numbers
- Collection of list eminent agencies for their involvement at the time of Disaster.
- Updating of Maps displayed in DCR with up-to date information
- Review of advance preparation undertaken at field level.

WARNING ON OCCURRENCE OF DISASTER

- Functioning of District Control Room [DCR] & other Sub-Divisional / Block / Tehsil / Line Department Control Rooms.

- Dissemination of Warning/Information.
- Meeting with officials at District Control Room in each 12 hours interval to take stock of the situation. *If possible* and apprising State Authorities,SDMA,NDMA,IMPA etc.
- Alerting CMO/RTO/CAHO/DSHO/FIELD OFFICERS (Dist. Admn/ Line Dept.) to remain in readiness to gear up into action immediately after abatement of crises.
- Immediate freezing of reasonable POL stock with different Petrol Pumps.
- Rescue operation/ Evacuation by teams (already identified) providing infrastructural facility and movement to Rescue shelters.
- Monitoring Disaster Management by ensuring a line of Control through Police & Paramilitary forces, Civil Defence, Fire services, Civilians, PSUS, NGOs and Essential Service Departments by Deputy Commissioner.
- Daily stock of the situation by Deputy Commissioner and Addl. Deputy Commissioner.
- Administration of Relief.
- Preparation of Daily Situation Report.

PREVENTION AND MITIGATION, RECOVERY AND RECONSTRUCTION STRATEGY FOR DIFFERENT HAZARDS.

6.1 Prevention and Control Measures to be adopted for various disasters.

6.1.1 CLOUD BURST/FLASH FLOOD:

- Early warning: Collaboration with IMD for early forecasting
- Evacuation of the people living in low lying areas to high reaches
- Construction of Checkdams/other structures
- Nallah training
- Not allowing plantations in the nallah bed, near nallah etc.

6.1.2 ROAD BLOCK

6.1.2.1 Mitigatory Measures

In general the chief mitigatory measures to be adopted for such areas are

- Drainage correction,
- Proper land use measures,
- Reforestation for the areas occupied by degraded vegetation and
- Creation of awareness among local population.

The most important triggering mechanism for mass movements is the water infiltrating into the overburden during heavy rains and consequent increase in pore pressure within the overburden. When this happens in steep slopes the safety factor of the slope material gets considerably reduced causing it to move down. Hence the natural way of preventing this situation is by reducing infiltration and allowing excess water to move down without hindrance. As such, the first and foremost mitigation measure is drainage correction. This involves maintenance of natural drainage channels both micro and macro in vulnerable slopes.

6.1.3 SNOW AVALANCHE

6.1.3.1 Control Measures

Types of control Measures

Avalanche control measures can roughly be classified into hardware and software types. Hardware measures are for the purpose of preventing avalanches or for blocking or deflecting avalanches with protective structures. Software measures provide safety by eliminating the probability of avalanches by removing snow deposits on slope with blasting and by predicting the occurrence of avalanches and recommending evacuation from hazardous areas.

Avalanche Control Structures

Avalanche control structures can be divided into two major types -

- Prevention Structures
- Protection Structures

6.1.3.1.1 Prevention Structures

Prevention structures are provided to prevent the occurrence of avalanches.

Major types are described below;

- **Planting** (Avalanche prevention Forest)
- **Stepped Terraces** - Stepped terraces are provided for stabilizing the snow cover on slope by reducing or dividing the sliding of the snow cover with steps cut into the slopes. Steps are easy to construct at a reasonable cost but are not effective in controlling surface layer avalanches.
- **Avalanche Control Piles** - Avalanche Control Piles are assemblies of single piles driven into slopes in avalanche zones to control surface layer avalanches. The type of snow should determine the spacing of piles or topographic features and an average spacing of 5 metres is normally used from past experience.
- **Avalanche Control Fence** - Avalanche Control Fence is installed on slopes of avalanche zones to prevent full depth or surface layer avalanches.
- **Suspended Fences** - These are used in steep slopes or in areas where foundations cannot be properly installed because of poor ground conditions and useful in small area.
- **Snow Cornice Control Structures** - These structures are installed at tops of mountain areas to prevent the development of snow cornices that can cause avalanches. There are two methods of prevention: one is a collector snow fence, which collects snow on the windward side of the top of the mountain, and the other is blower snow fence which controls the development of snow cornice by blocking winds on the ridge

6.1.4 EARTH QUAKE

6.1.4.1 Measures for Earthquake Risk Reduction

6.1.4.1.1 Long term measures-Various activities taken up as long term measures for earthquake disaster mitigation may include :

- RE-framing the building codes, guidelines, manuals and bye-laws and their
- Proper implementation. Stricter legislation for highly seismic areas, in the
- regard.
- In high risk areas, all building should incorporate earthquake resistant features.
- Public utilities like water supply system, communication network, electricity lines etc. must be earthquake proof to reduce damages to the infrastructure facilities, alternative arrangement for the same must be developed.
- Community buildings and buildings used for gathering of large number of persons, like school, dharamshalas, hospitals, prayer halls, etc must be made earthquake resistant in seismic zones of moderate to high intensities.
- Supporting R&D in various aspects of disaster mitigation, preparedness and prevention and post disaster management.
- Improving educational curricula in architecture and engineering institutions and
- Technical training in polytechnics and schools to include disaster related topics.

6.1.4.1.2 Medium term measures-The medium term measures for earthquake disaster mitigation may be listed as follows :

- Retrofitting of the weak structures in the highly seismic zones.
- Preparation of literature in local languages with do's and don'ts for the building constructions.
- Getting community involved in the process of disaster mitigation by providing them proper education and awareness. Supporting local technical institutions/colleges/school to organize research and to organize exhibitions etc for public awareness.
- Networking of local NGOs working in the area of disaster management.

6.1.4.2 Post disaster Preventive Measures.

6.1.4.2.1 Short term measures-The urgent measures to be undertaken in the aftermath of a damaging earthquake will include the following:

- Maintenance of law and order, prevention of trespassing, looting etc.
- Evacuation of people.
- Recovery of dead bodies and their disposal.
- Medical care for injured.
- Supply of food and drinking water.
- Temporary shelters like tents, metal sheds etc.
- Restoring lines of communication and information.
- Restoring transport routes.
- Quick assessment of damage and demarcation of damaged areas according to grade of damage.
- Cordoning off severely damaged structures that are liable to collapse during aftershocks.
- Co-ordination between various agencies involved in rescue and relief work is extremely important for success in avoiding gaps and duplication. Pre-disaster preparedness needs to be based on preparing likely damage scenario in probable earthquake occurrences and the estimate of extent of efforts required.

6.1.4.2.2 The following preparedness actions will be useful:

- Community should be trained in search, rescue and relief at the time of disaster in high-risk areas.
- An extensive programme of mass drills may be very helpful in high-risk areas for earthquake damage reduction
- Local NGOs should be trained and their capacity and capabilities should be strengthened.
- Introducing earthquake disaster safety do's and don'ts and drills in schools.
- To organize training to field personnel of the states in the science and art of carrying out post disaster damage surveys, (a) for urgent relief purposes, (b) for repair, reconstruction and retrofitting purposes.

6.1.4.2.3 Consolidation and reconstruction.

- An effort needs to be made in the emergency phase, to involve the affected people to the maximum extent so as to create a feeling of self-reliance. They need to be started as quickly as possible so that the period of relief is minimized.
- Detailed survey of building for assessment of damage and decision regarding repair, reconstruction and strengthening or demolition.
- Repair, reconstruction and seismic strengthening or demolition.
- Selection of sites for new settlements, if required
- Execution of the reconstruction programme
- Review of the existing seismic zoning maps and risk maps.
- Training of personnel , engineers, architects, builders and masons

- Statistical studies regarding the earth quake in the district needs to be initiated.

6.1.5 DROUGHT, LOCUST MENACE

6.1.5.1 Strategies

- Close monitoring of the emerging drought scenario so as to develop an advance warning system
- Relief measures required for providing immediate succor to the affected population and the upkeep of the cattle wealth, and if possible integrate it with long term objectives
- Hammering out an alternative crop strategy for maximum possible retrieval of the Kharif crop and a better ensuing Rabi crop.

6.1.5.2 Health & Public Health Measures

- The nutritional requirement of all the children, expectant mothers and nursing mothers should be taken care of.
- Care has to be taken to disinfect drinking water sources to prevent the spread of water-borne diseases and plans need to be drawn up to cope with likely epidemics.
- There is need for constant surveillance of public health measures including immunization to be undertaken.

6.1.5.3 Cattle care The cattle are the worst effected during a drought situation. Where it is not possible to supply fodder or take medical care of cattle, cattle camps are to be opened to take complete care of the cattle population. The following is a checklist of points for monitoring the fodder requirement in the difficult drought situation.

- Assessment of fodder requirement in drought affected districts and locate areas where shortages are likely to occur and arrange for supplies from outside.
- Monitoring the prices of fodder in selected places/markets.
- Arrange to procure fodder in selected outlets.
- Fodder cultivation to be encouraged wherever feasible.
- Ensure supply from molasses to cattle feed plants.
- Obtaining from premixed feed and urea-molasses bricks to the extent

6.2 ADMINISTRATIVE PREPAREDNESS FOR DIFFERENT HAZARDS.

6.2.1 EARLY WARNING DISSEMINATION

PREPAREDNESS

RESPONSIBILITY

- Setting up control room and manning of Control Room round the clock.
 - Assignment of duties to the District level officials and SDMs/Tehsildars/BDOs
 - Arrangement of vehicle and sound system for information dissemination.
 - NGO coordination and assignment of duty.
 - Proper record keeping and transmission of information to all the levels.
 - Holding of Natural calamity meeting.
 - Ensure functioning of warning system & communication systems.
 - Create awareness with the target groups.
 - Ensure Mock drill.
- ★ All District level officials.
 - All SDMs.
 - All Tehsildars.
 - All BDOs.
 - Leading NGOs.

6.2.2 EVACUATION

PREPAREDNESS

- To warn people about the impending danger & to leave for safer places

RESPONSIBILITY

- All SDMs.
- All Tehsildars.
- All BDOs

6.2.3 SEARCH AND RESCUE

PREPAREDNESS

- Development of Police/Fire Brigade for search and rescue
- Co-ordination with the NCC/NSS/Civil Defense/ etc. for rescue operation.
- Ensure availability of the rescue materials.
- Prepare inventory of shelter places and map indicating the shelter centers.
- Provide & arrange Rescue kit at risk areas

RESPONSIBILITY

- ★ Police
- ★ Fire Brigade.
- ★ SDMs.Leadng NGO.
- ★ Tehsildars.
- ★ BDOs.
- ★ NGOs
- ★ Programme Co-coordinators of NSS/NCC/.

6.2.4 MEDICAL AID

PREPAREDNESS

RESPONSIBILITY

- Stock pilling of Life saving drugs/ORS packets/Halogen tablets.
 - Treatment of the injured persons and Transmission of reports to the injured to hospitals.
 - Awareness messages to stop the outbreak of epidemics.
 - Disease surveillance and transmission of reports to the higher authorities on a daily basis.
 - Vaccination.
 - Constitute mobile teams and visit the worst affected areas.
 - Dis-infection of Drinking water sources.
 - Identification of site operation camps.
 - To obtain/transmit information on natural calamities to District Control Room.
 - Advance inoculation programme in the flood.
 - Arrangement of fodder/medicines for the animals.
- * Councilors
 - * CMO
 - * CAHO/DSHO
 - * BMO
 - * OC Animal and Sheep Husbandary at Block level
 - * MEDICAL OFFICERS OF PHCs
 - * ICDS
 - * Leading NGOs
 - * Village Nambardars

6.2.5 SHELTER MANAGEMENT PREPAREDNESS

- Identification of Shelter/Temporary shelter in high elevated places and arrangement of tents ect.
- Arrangement of Food/Drinking water/Medicine in the shelter places.
- Person's allocation for each shelter.
- Arrangement of transportation.
- Arrangement for safe shelter for animals.
- Providing the lighting facilities for shelter places
- Deployment of Police Personal
- Temporary supply of safe drinking water.

RESPONSIBILITY

- * SDMs.
- * Tehsildars
- * BDOs
- * Medical Officers
- * Paramilitary Forces
- * Police
- * Religious Org
- * DDMG/ARTO

6.2.6 EMERGENCY RELIEF/FREE KITCHEN OPERATION

PREPAREDNESS

- Deployment of vehicle.
- Procurement and transportation of Relief materials to affected pockets/areas.
- Arrangement of free kitchen in the shelter camps & affected areas.
- Assigning responsibilities to officials for distribution of emergent relief/running of free kitchen.
- Coordinating with the NGOs/Other voluntary organizations & PSUs/UNICEF/UNDO/REDCROSS./
- Monitoring.

RESPONSIBILITY

- SDMs
- Tehsildars
 - BDOs
 - Medical Officers
 - Paramilitary Forces
 - Police.
 - PHE
 - Religious Organisations
 - Leading NGO

6.2.7 HEALTH AND SANITATION RESPONSE STRUCTURE.

PREPAREDNESS

- List of the Medical staff members with contact address/telephone number.
- Stock position of medicines at District/Sub-division/PHC/CHC/AWC.
- Plan and indent position of stock.
- Trained voluntary staffs/task forces/Anganwadi workers on use and providing min.Health services to the community.
- Arrangement of Mobile Health unit for inaccessible pockets/Health awareness campaign.
- Stock position for medicine for animals.
- Ensuring supply safe drinking water arrangement for supply of safe drinking water.
 - Disinfectant for purification of water.

RESPONSIBILITY

- CMO
CAHO/DSHO
SDMs.
BMO
Tehsildars.
BDOs
Medical Officers
Paramilitary Forces.
Police.
- PHE/
RTO/District Garages

6.2.8 INFRASTRUCTURE RESTORATION.

PREPAREDNESS

- Formation of task force with specific equipments.
- Assigning responsibilities for specific areas.
- Emergency cleaning of debris to enable reconnaissance.
- Coordinate road-cleaning activities to assist local relief week.
- Begin clearing road, assemble casual labour provide a work team carrying emergency tool kits.
- Towing vehicles, Earth moving equipments, cranes, construct Temporary roads.
- Keep national & other Highways clear from disaster effects.
- Damage assessment
- Monitoring.

RESPONSIBILITY

- CE Himank
SE PWD
EE,R & B
Police.
EE, Mechanical Division.
ARTO/Earth Movers
Union.
All line departments
All Tehsildars.
All BDOs.



6.2.9 DISASTER MANAGEMENT PLAN FOR S.N.M HOSPITAL, LEH

Definition:-Disaster management is the *optimum utilisation* of the *hospital services* to deal with catastrophes such as major train accident, earthquake, an explosion or bomb blast riots etc.

sr. no	Name of district	Category of establishment	Manpower	Emergency equipments /machinery	Stock in godowns for disaster	Temporary establishment of hospitals	Requirements
<u>1</u>	<u>Leh(Ladakh)</u>	<u>District hospital</u>	<u>Doctors-32</u>		<u>nil</u>	<u>Nil</u>	<u>Make shift hospital in case of hospital disaster.</u>
			<u>Nurses-36</u>				
			<u>Paramedics-40</u>				
			<u>Nursing orderly-37</u>				
			<u>Safaiwala-28</u>				

PLAN SUMMARY

Code Blue, Phase O..... Disaster Warning

Code Blue, Phase IUp to 15 victims

Code Blue, Phase II 15 or more victims

Disaster Management Committee for the hospital (proposed)

Medical Superintendent-----9419178589
 Dy. Medical Superintendent-----9622744614
 General Surgeon-----9622966121
 Orthopedician-----9419178113
 Casualty Medical Officers-----01982-253629
 Matron-----01982-253629
 S.H.O of S.N.M Hospital Area-----01982-252018

STAGES OF DISASTER

- ▣ Warning stage:-Meterological, seismological, News,Media etc predictions (*Few minutes to hours*)
- ▣ Stages of impact:- When disaster actually strikes(*few minutes* like flash flood and earthquakes to *hours* like cyclones, fire out-breaks)
- ▣ Stage of rescue operation:- Actual rescue of victims and their evacuation (active intervention) (not more than 2-3 days even for worst disasters)
- ▣ Stages of Health and Medical Relief(most crucial stage of disaster) Mortality, morbidity and loss of property are inevitable part of disaster, it shall however be a further disaster if survivors succumb and suffer due to relief work not up to mark) It requires lot of foresight, planning, coordination.
- ▣ Rehabilitation stage: - Displaced persons to be rehabilitated, possible only if good political support. Poor rehabilitation results in exodus, refugees and creation of slums, unemployment and deprivation.

TRIAGE

Priority Location Color Code

I: Life Threatening Emergency	Surgical Department	Red
II: Urgent	Emergency medical department	Yellow
III: Non-Urgent	casualty -	Green
IV: Deceased	Morgue	Black

LOCATION OF FUNCTIONS, ETC.

Command Center:	Medical Superintendents office
Disaster Patient reception	Casualty ward
Discharged Disaster Victims:	SNM Medical shop
Communications Desk (News Media):	Medical Shop near the Main Gate
PBX = Public Address System or Operator:	Medical Shop near the Main Gate
Discharged In-House Patients:	Room Near SNM Medical shop
Families, Friends of Disaster Victims:	Hospital OPD/IPD Registration Counter, Main Hospital Lobby.
Patient Overflow ward	Surgical ward old block / Crisis ward
Operation Theater	F-Block operation theater
Post Anesthetic Recovery Unit(PARU)	F-Block surgical Ward

Phone communications along with police wireless used for Communications between Command Center, Post-Op Recovery Room, Ambulatory Clinic, OR, and Administrative Nursing Coordinator.

IMPORTANT PHONE NUMBERS IN THE HOSPITAL

S.no	Name	specialty	Landline	Mobile	other
	Casualty		01982-253629	Dr.katpa Dr.Rinchen chosdol Dr.Shamim	9622991203 9491978475
	Medical Superintendent Dr.P.Tsering	Adm	252014/01982-252360/	9419178589	202304
	Dy.Medical Superintendent Dr.Norboo Angchuk	Adm	202305	9622744614	
	Dr.Namgial(ENT)	ENT		9419178511	
	Dr.Thinlas(phy)	Medical		9906986655	
	Dr.Ghulam(phy)	Medical			
	Dr.Tashi Motup(Surgeon)	Surgery		9622966121	
	Dr.Tsewang Namgial	Surgery		9419811987	
	Dr.S.T Angchuk	Ophtho		9419778712	
	Dr.P.Wangchuk	Ophtho		9906988901	
	Dr.Tsewang Dorje	Ortho			
	Dr.Javaid	Ortho		9699224655	
	Dr.P.T Angchuk	Radio		9419178237	
	Dr.S.Angchuk	Radio		9419115180	
	Dr.Kunzes	Gyne		9419348103	
	Dr.Ayesha	Gyne			
	Dr.Stanzin Choeying	Dental		9419219875	
	Dr.Rinchen wangmo	Pediatric		9419370090	
	Dr.Spalchen	Pediatric		9491978459	

The Triage area and Emergency Department shall use different channel for communications. Specify telephone lines for calls into the main desk.

ABBREVIATIONS

1. ED = Emergency Department
2. PARU = Post Anesthesia Recovery Unit
3. OPD = Clinic
4. OR = Operating Room
5. LAB = Laboratory Incharge (Pathology)
6. RT = Respiratory Therapy
7. PBX = Public Address System or Operator

Section 1. Goals And Employee Obligation

A. Goal

1. To provide an efficient operation to ensure maximum flexibility for the delivery of optimum care to victims of a mass disaster, or unforeseen calamity, involving large numbers of people.

B. Employee Obligation

1. Each employee must be familiar with the Plan, and pay specific attention to his/her departmental plan, so that the best possible care can be provided when large and unexpected numbers of casualties arrive at any hospital.

2. Each employee must be ready to assume duties that may not fall into his/her particular area of employment.

Section 2. Activation Of Disaster Plan

1) When notification is received by the Emergency Department, via EMS or other means, that an emergency situation exists in the community which may result in more than five (5) victims coming to the Hospital,

2) The person receiving the information shall notify the nurse in charge of the Emergency Department (who shall notify the Senior AMO or EMS coordinator).

3) The Nurse in charge of the Emergency Department will also notify the EMS coordinator and/or backup emergency physician and

4) Also notify the Emergency Department Physician in Charge for that day.

5) On 10 AM - 4PM Shift, Monday through Saturday, the Medical Superintendent shall contact the Deputy Medical Superintendent and a joint decision shall be made concerning activation of the Disaster Plan with the emergency department physician in charge.

6) On weekends, holidays, 10 am to 4pm shift and 4pm to 10 am Night shift. The doctor in medical OPD/Physician/Surgeon, the casualty Medical officer respectively shall contact the Administrator on Call and a joint decision shall be made concerning activation of the Disaster Plan with the emergency department physician in charge.

7) Casualty Medical Officer shall then notify Medical Superintendent, Matron and others.

A. Communication

1. The Operator is notified by the Casualty Medical officer.

2. Public Address system in casualty will be activated and page the following, three times. "Attention all personnel, Code Blue", indicating Phase 0, Phase I or Phase II, report to your department for further instructions.

3. Operator will then SMS all on call duty residents, Respiratory Therapy, and ECG and Trauma staff including OT staff.

4. Calls to be made by the operator are listed under PBX Communications (only Phase I or II).

5. The PBX Operator, at the end of making calls, will inform Casualty Medical officer of those persons who could not be reached by phone.

Disaster Warning:

a. Phase O is a warning only of a potential disaster.

b. Under Phase O, all personnel should remain within their department unless otherwise instructed by their department head.

- c. Each department should prepare for implementing their disaster protocol and initiate the on-call list to department heads and additional personnel, if indicated or appropriate for the department.
- d. No hospital personnel, except individual department heads, may call the Emergency Department during the Phase O to request further disaster information.
- e. Assessment of critical care and overall patient bed and stretcher availability should be made at this time from each patient care area and information should be transmitted to the Indoor doctor on duty and Casualty M.O.
- f. Casualty N.Os, Ambulance assistants, ANMs Pharmacists, MOT Incharge and Technicians and Nurse Incharge of MOT and Nurse of Casualty and Nursing Supervisors of Casualty should assemble and prepare triage area to receive patients by retrieving stretchers from patient floors.

B. Communication with Patient-Care Areas

Public address system should be used for communication along with phone lines. Communications during a disaster drill/Code Blue response should be kept to a minimum to keep these lines open for communications between treatment areas that will directly affect patient management.

C. Communication with the Employees.

- 1. Employees who are not on duty will be notified by telephone as determined by the Casualty Medical Officer and will report to own department unless otherwise instructed.
- 2. When all communications are interrupted, the hospital must rely on personnel on duty, those who arrive without notification, and on volunteers.
 - a. Any nursing personnel or volunteer reporting for duty must report to the Casualty
 - b. All other personnel (non-nursing and non-physician) should report to their department for assignment.

D. Communication with the Medical Staff and Residents:

- 1. All in-house Doctors and specialists- with the exception of anesthesiologists as mentioned below - should report to the Emergency area in the Casualty once they hear the "Code Blue" alert on their SMS/Mobile or on the PBX system.
- 2. Anesthesiologists - all anesthesiologists should respond as follows:
 - a. The senior member of the Division of Anesthesiology should report to the EMS / OT, to assume control of PARU patient disposition as well as continued triage and treatment of victims referred to the PARU.
 - b. Additional anesthesiologists should report to the the EMS / OT for directions from the senior attending anesthesiologist.

E. Activation of Departments

- 1. All department heads or designees called shall inform the Casualty Medical Officer of their notification and report on the readiness of their departments.

2. Senior Staff nurses / Sister In Charges from clinical wards will assess bed availability and initiate immediate discharge of patients able to be sent home, if necessary to accommodate casualties.
3. Casualty Medical Officer will call for status of bed availability.

F. Activation of Community-

Wide Response In the event of a disaster that involves the entire community and/or a response that requires the resources of multiple hospitals, community-wide efforts of disaster response will be implemented along with other deans and Director Health Services and Deputy Commissioner of the District.

Section 3. Action Plan

A. Code Blue

To provide optimal care, a phased disaster program has been adopted.

1. Code Blue, Phase 0: High probability of disaster with multiple victims.
 - a. Warning only
 - b. All hospital personnel should remain in assigned department until further notice, unless instructed otherwise by department head/supervisor.
 - c. Announcement of Code Blue Phase I or termination/cancellation will be forthcoming.
2. Code Blue, Phase I: Up to 15 critical or acute victims.
3. Code Blue, Phase II: 15 or more critical or acute victims.
4. Less than 5 critical or acute victims will be handled in a routine manner.

B. Triage Procedure

1. Primary Triage Area

- The victim triage will be done in the Emergency Department's lobby after cordoning the area.
- Four Security personnel will be present. Persons assigned to the Primary Triage Area are the Casualty Medical Officer, designee (triage officer), an emergency nurse, and wardboys.
- All other persons are to remain away from this area, unless they are specifically assigned by the Triage Nurse.
- Transport personnel will be responsible for bringing all available stretchers,
- backboards and supplies to the triage area for exchange and rapid patient transfer with EMS personnel.

2. Triage Personnel

- a. Chief Triage Officer is the Casualty Medical Officer or designee.
- b. For a Phase II disaster (greater than 15 patients) a second triage officer will be assigned by the Medical Superintendent to assist in patient evaluation in the triage process.

3. Triage Rating System and Treatment Areas

Arm Tags

Priority I: Emergency Department - Life Threatening Red

Priority II: PARU - Urgent Yellow

Priority III: Outpatient Clinic 1B - Non-Urgent Green

Priority IV: The Morgue - Expectant Black

PRIORITY I: LIFE-THREATENING

1. Asphyxia
2. Respiratory obstruction
3. Sucking Chest wounds
4. Tension pneumothorax
5. Shock
6. Hemorrhage
7. Cardiac injuries
8. Severe burns
9. Major fractures
10. Major medical problems
11. Cerebral injuries
12. Spinal cord injuries
13. Other as applicable

PRIORITY II: URGENT

1. Vascular Injuries
2. Wounds of the genitourinary tract
3. Thoracic injuries
4. Burns
5. Fractures
6. Eye injuries
7. Others as applicable

PRIORITY III: NON-URGENT

1. Ambulatory
2. Non-critical
3. First-aid measures
4. Others as applicable

PRIORITY IV: EXPECTANT

1. Unsalvageable patients with lethal injuries
 2. Deceased
- a. Any Priority I victim may be taken to the Priority II area if the Emergency Department should become overloaded. Facilities are such that the same type of intensive care and treatment could be managed without delay or difficulty.
- b. *In a situation when hospital is full or damaged, the victims to be admitted will remain in the treatment areas or holding area until beds are created (by discharging other patients or opening new beds) in the hospital and/or arrangements made to transfer the patients to other area hospitals. In a situation where one of the treatment areas (Emergency Department, PARU, Casualty) is damaged then victims will be located in the next highest priority treatment area functioning (not damaged) at that time until they are stabilized and admitted or go to operating room or are discharged.*
- c. All patients transferred to casualty (low priority/green) should be transferred to surgical wards.

C. Information and Paper Flow

1. Papers and Forms used

a. Color-coded folder for each of the Treatment Areas

1. Contains form for Nursing Notes, Assessment form, Physician's Orders and Treatment, x-ray form, Lab form

2. Colors Are:

- a) Red=Emergency Department
- b) Yellow=Post Anesthesia Recovery Unit
- c) Green=Clinic
- d) Black=Morgue

3. Arm bands are the same color as the folders.

c. Victim Flow Log

- 1. One is used for each Treatment Area and maintained by clerical personnel.
- 2. Should be turned in to the Emergency Department at the conclusion of the disaster.
- 3. Purpose is to keep accurate account of all the disaster victims.

c. Disaster Chart

- 1. Affixed to the clipboard for each patient in each treatment area.
- 2. To be filled in by a deputy Medical superintendent, or a nurse if she has time. Physician will fill out his or her part. One copy with the patient and other with Casualty Medical Officer.
- 3. The number that is written on the Arm Band is to be transferred to the Disaster Chart and to all the papers that belong to the victim.

d. Arm Bands

1. Color coded:

Red = Emergency Department
Yellow = Post Anesthesia Recovery Unit
Green = Clinic
Black = Morgue

2. Identification Number and name, if possible, is written on the Arm Band.

- a. Transfer this number to the Disaster Chart, and to all appropriate papers belonging to the victim.
- b. This number must be placed on all requisition forms, i.e., lab, x-ray, etc.

3. If victim is unidentified, this number is used for identification of all lab specimens and x-rays, etc. A photo will be taken in the Triage area by artist department for purposes of future identification.

4. Any clinical information and ancillary tests ordered will also be placed on armband.

D. Supplies- Deputy medical Superintendent will ensure that all necessary supplies reach the EMS.

1. Disaster

a. Central Supply

- 1. Maintain Trolleys containing dressings, trays, suction catheters, towels, IV Tray, etc.
- 2. Trolleys will be taken to the post op recovery room (PARU) or ambulatory clinic immediately with back up cart transported to Emergency Department.

b. Respiratory Therapy

1. Maintain Trolley containing Ambu bags, oxygen tubing, extension tubing, Endotracheal tubes, masks, etc.

c. Transport Team (Ward boys from casualty, ambulance, Varanda)

1. At the Phase 0 (disaster warning stage) Transport Team will begin to move all available stretchers to the triage area.
2. Will take supply boxes to triage area for pick up and exchange with EMS personnel, i.e., IV fluids, tubing, angiocaths, meds, etc.

Section 4. Medical Direction

A. Medical Personnel

1. The Deputy Medical Superintendent will serve as Coordinator of Medical Personnel.
2. Until the arrival of the Deputy Medical Superintendent, a physician designated by the physician in charge of the Emergency Department will serve as coordinator.
 - a. The Deputy Medical Superintendent may designate, after his/her arrival that the designated doctor remain at the main lobby as the coordinator.
3. The coordinator shall assess current resources and assign appropriate personnel to treatment areas as needed.
4. PARU Director will be the senior Anesthesiologist.
5. Casualty will be directed by casualty medical officer.

B. Medical Staff Personnel

Physician Staff (except anesthesiologists as mentioned above in Section 2 C.) and residents doctors shall report to the Command Center for assignments.

C. Transport Personnel

All Trainee students will report to the main lobby and will be assigned primarily as transport personnel, and may be assigned to act as escorts and take victims to x-ray, treatment rooms, etc.

All available Ward Boys will form the Transport Team and report to the Main lobby and will serve as transports unless needed by their own department.

Volunteers may also be required as transporters if necessary, and will be assigned by the Main lobby.

The Mukadam, will serve as chief of the transport team. He/she will serve as a supervisor of all transport personnel and help coordinate and facilitate the transfer of patients to various treatment areas: triage area, surgery, etc.

The Mukadam will be responsible for taking the available stretchers and backboards to the triage area for the availability of incoming EMS vehicles for rapid patient transfer. Also, they will be responsible for taking additional supplies to the triage areas for exchange with EMS personnel, i.e., IV fluids, tubing, angiocaths, meds, etc.

When assigned to any treatment area, report to the Triage Nurse/chief nurse and identify yourself.

SECTION 5. Main lobby Registration counter

The Main lobby Registration counter shall be established as soon as is possible, after the announcement of a Code Blue, Phase I or II (there is no Command Center during a Phase 0). The Information Desk in the main lobby is designated as the Command Center.

Function Of The Command Center

1. Appraise the disaster situation both administratively and medically and maintain clear communication with the Administrative Coordinator and Emergency Department through two-way radios.
2. Maintain constant contact with the Office of Communication representative.
3. Direct the assignment of extra personnel and supplies to needed areas.
4. Receive a copy of the disaster charts from the treatment areas and log names.
5. Direct the expansion of hospital facilities as needed. Determine the need for discharging patients and, if necessary, coordinate with the Admitting Department the discharge of in-house patients.
6. Maintain a liaison with other area hospitals and public support agencies, including fire and police.
7. Release personnel as they are no longer needed or call in additional personnel as may be needed. In the event of an extended emergency situation, establish emergency scheduling of all employees to provide necessary coverage for the period of the disaster.
8. Coordinate support of family/etc., in lobby until Dean, Commissioner and Politicians.
9. Will terminate disaster response upon notification that all victims have been triaged to the appropriate treatment areas.

Section 6. Activity Centers

A. Morgue

1. Located near the generator shed
2. Old TB ward / OPD area will be used for overflow
3. Deputy Medical Superintendent / clerical staff from the Med. Superintendents offices /Police officials/ Magistrates is responsible for identification of the victims as well as cataloging personal effects and clothing.
4. Main lobby Registration counter is notified of the identity of the victims and will then notify the the same on display boards.

B. Medical Shop near Main Hospital Lobby

1. This will function as an overflow area for discharged in-house and discharged disaster victims, if the capacity of the EMS is exceeded.
2. It will also serve as an overflow area for ambulatory patients if other clinic areas have exceeded their capacity to handle patient care activities or a critical treatment area has been damaged and this area will need to be used as an alternative treatment for the low-priority ambulatory patients.

C. Communications Desk (News Media): Medical Superintendents Office

D. PBX = Public Address System or Operator: Medical Shop near the Main Gate

E. Hospital OPD/IPD Registration counter, Main Hospital Lobby

1. Designated area for families and friends of the victims.
 2. At least one Security officer will be assigned there.
 3. A member of Medico social work department will be assigned with authority to disclose information to the families from the main desk lobby.
- a. Information for patients seen in Emergency Department will be available through the officer of the day assigned to the Emergency Department and will work in conjunction with the Main desk lobby.

Section 7. Hospital Department Responsibilities

A. General Responsibility

1. It is the responsibility of each department head to have a detailed knowledge of all aspects of this plan and serve as an advisor to his/her department.
2. Each non-physician department head involved in disaster response also bears the responsibility for formulating a disaster plan in writing for his/her department. This plan would cover such subjects as departmental disaster authority, functions, assignments, communications and responsibilities of personnel.

This plan must be submitted and approved by the Disaster Committee, which has the responsibility to coordinate the maintenance of this plan. Each department shall maintain a copy of their individual plan, and a complete collection of these plans will be maintained in the offices of:

- a) Hospital Administration
- b) Emergency Department
- c) Nursing Administration
- d) Disaster Committee Chairman

3. In an actual disaster or during a disaster drill, department heads (specifically: Emergency Department, Nursing Services [PARU/Operating Room/Patient Transport], Ambulatory Services [Outpatient Clinic], Admitting, Security staff, Respiratory Care, and Pharmacy) will inform the Casualty Medical officers of the readiness of their departments.

Section 8. Communication

A. Communication

1. Responsibilities

- a. To manage and provide information concerning the victims of a mass disaster to news media and other concerned persons, both internal and external.
- b. To manage and monitor the activities of on-site media reporters and photographers.
- c. To coordinate the notification of victims, families, in cooperation with the Patient Relations Department.

2. Location

- a. A Communications Desk will be set up in the near the medical shop of the Main Hospital Lobby, where telephone lines are available. MSWs along with non-clinical departments will staff the Communications Desk. Office of Communication will obtain tables and chairs from the Radiology department as needed to establish the Communications Desk area. Telephones from EMS medical side will be brought and connected there.

MRO will provide timely update information on patients triaged to the Emergency Department to the Communications/Patient Relations personnel.

All calls and inquiries from the news media and others regarding the status of victims or disaster information should be referred to the Communications Desk.

3. Media Information

a. Information regarding disaster victims will be released to the news media following current and regular hospital protocol.

1) The name, condition and injuries of disaster victims will be released only if the next of kin have officially been notified by the Office of Communication.

2) The names of any deceased victims will be released under the same conditions.

b. News media reports and photographers will be directed to the Communications Desk area.

1. Reporters and photographers must remain in the main lobby of the hospital, and are not permitted to visit treatment areas unless accompanied by casualty Medical officer.

Section 9. Facility Access

A. Security Staff

1. Security personnel and their designees will assume their assigned positions at entrances to the hospital. They shall prevent anyone without identification as an employee and/or a physician from entering the building and will direct press to the main Hospital Lobby.

2. This department will also be responsible for directing traffic in and around the hospital entrances and parking lots to alleviate congestion and provide ready access to the hospital for emergency vehicles.

3. Will be responsible for placing signs during a disaster drill in the appropriate locations identifying this as a drill for hospital visitors and bystanders. They will also be responsible for retrieving the signs at the completion of the disaster drill.

B. Identification of Employees

1. All employee should wear their batches or ID cards.

2. Arm bands may be provided to medical and technical personnel to better delineate their function in patient care.

Section 10. Medical Record, Clothing And Valuable Control

A. Medical Record - Disaster Chart

1. During the early stages of caring for disaster casualties, a disaster chart will constitute the basic medical record. These will be stored in the Emergency Department and be available for immediate use. As soon as possible, a hospital admission number will be provided by the Admitting Department.

2. The Medical Record team will utilize a disaster chart to record each casualty's initial diagnosis, treatment rendered, medical classification and destination. Identifying information which can be obtained readily will also be recorded on the chart. The disaster chart will serve as the patient's medical record until such time that his/her regular chart may be assembled. The disaster chart will then be incorporated with (and become part of) the permanent Medical Record. (The number that is written on the arm band is to be transferred to the disaster chart and to all the papers that belong to the victim.)

B. Clothing and Valuables

1. Valuables will not be removed from the victim during the emergency situation unless absolutely necessary.
2. When absolutely necessary, valuables should be placed in special Valuable Envelopes and be taken to the Deputy Medical Superintendent/ Medical superintendent's office/Police custody for safe keeping.
3. Clothing should be placed in plastic bags available in the Emergency Department. The bags will be numbered to correspond with the disaster chart number and/or the hospital admission number. The bags will accompany the patient.

Section 11. Disaster Termination

A. Primary Triage Area

1. Triage designee officer must notify Main desk that all victims have been received and transported to treatment areas.

B. Main desk

1. After receiving above notification from triage area, Casualty Medical Officer will notify each treatment area.

2. If adequate resources are available in each treatment area to manage patients, Deputy Medical Superintendent will be notified of Code Blue disaster termination.

Section 12. Disaster debriefing

Under the chair of Medical Superintendent after the disaster has been called off, a report will be prepared about how things went during the disaster and what the problem areas were. This will help in developing a more efficient and robust plan for the next time.

OTHER EMERGENCY CODES

Code blue - cardiac arrest

Code red - fire - fire drill - Dr Red

Code black - bomb threat

Code white - security emergency

Code green - all clear

Code 10 - disaster - Dr Major

DILENEATION OF JOBS ACCORDING TO JOB CARDS

Action sheets/jobs cards being basis of successful disaster emergency management plan should be made for each and every position in the organizational chart and command system.

Job cards should be detailed: stored safely in the disaster manual; colour coded and laminated. Each card will have check list of instructions for key individuals in respective areas to enable them to carryout their duties effectively.i.e phone numbers and address (updated periodically)

Colour coding will be for different categories of staff for easy identification e.g consultants, senior residents, junior residents, nurses etc.

JOB CARD- CONTROL ROOM

JOB CARD –CASUALTY

JOB CARD –SURGERY

JOB CARD-ORTHOPEDICS

JOB CARD- ANESTHESIOLOGY

JOB CARD- MEDICINE

JOB CARD- NURSE I/C ALTERNATIVE WARDS TO RECEIVE EMERGENCIES

JOB CARD- CHIEF OF STORES

JOB CARD –NURSING INCHARGE OF OT

JOBCARD- MATRON

JOB CARD- BLOOD BANK OFFICER

JOB CARD CHIEF OF CLINICAL PATHOLOGY AND MICROBIOLOGY LABORATORIES

JOB CARD- CONSULTANT RADIOLOGY ON CALL

JOB CARD- I/C OF PHARMACY CASUALTY MR.RAVINDER MAGOTRA

JOB CARD FORENSIC MEDICINE ON CALL

JOB CARDS CHIEF OF MEDICAL RECORDS DEPARTMENT

JOB CARDS CHIEF OF HOUSEKEEPING DEPARTMENTS

JOB CARDS-MAINTANENCE DEPARTMENT

JOB CARDS- CHIEF OF LAUNDRY

JOB CARDS- CHIEF OF STERILISATION UNIT

JOB CARDS- KITCHEN DEPARTMENT

JOB CARDS- PUBLIC RELATIONS OFFICER

JOB CARDS- SECURITY OFFICER

6.2.10 POST DISASTER EVALUATION

Post-Disaster Evaluation should be started immediately after abatement of Calamity of keeping in view the following factor:

- Statistics on Gravity of the effected of Disaster.
- Sector wise intervention/assistance of state required.
- Coordination linkage with NGOs, for rehabilitation.
- Documentation
- Monitoring.

6.2.11 PLAN UPDATE-FIXED DATE & RESPONSIBILITY

The plan shall be updated in the district level disaster management committee meeting in its first meet during May of every year keeping in view the past experiences.

The line department officials, revenue, field functionaries & BDOs are responsible for feeding up-to-date information on each sector of relief operation for incorporating in time in the **DISTRICT DISASTER MANAGEMENT PLAN**.

CHAPTER 7

7.1 INFORMATION, EDUCATION & COMMUNICATION (IEC)

7.1.1 DISSEMINATION OF OTHER IEC MATERIAL.

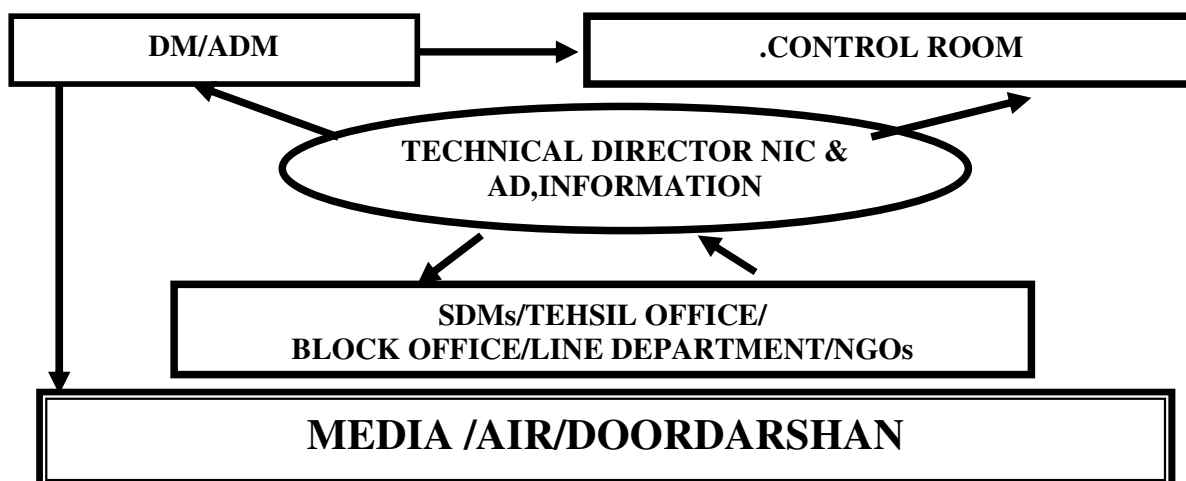
MODE	AGENCY RESPONSIBLE
Wall Painting, street play, Village task force/Volunteers training	CMO->through field agencies BDOs-> through VLW/ Village Volunteers. NGOs-> through Blocks level NGO network.
Hand Bills, Paper adv.	Block Development Officers, AD Info.
Media & Press releases	Information Officer, DCR
Poster, Cartoons, Chart, Photograph and Flock songs,	NGOs.
Training Camps, Group discussion and special lecturers by Community leaders.	Block Development Officers, NGOs

7.2.2 TRAINING & DRILLS

MODE	AGENCY RESPONSIBLE
Training Programme for Rescue, Relief	Suptd. of Police /OIC Fire Station, NGOs
Training for Common People on Health Care Sanitation , & First Aid	CMO, BDOs, CBOs

7.2.3. COMMUNICATION AND MEDIA

In Disaster preparedness Media plays a capable role in building a communication network both horizontally and vertically. It stands in interaction with different sections of society, actors of relief administration, NGO etc and feeds the right information at right time to the all people.



DETAILS DATA TO BE MAINTAINED AT DISTRICT LEVEL & PERIODICITY OF

UPDATES

SCHEDULE FOR UPDATING THE DISTRICT DATABASE

District Database	Schedule Time
Updating Rainfall Database	Fortnightly / Monthly
Updating NGOs / Voluntary Database	Annually
Updating important Telephone Nos. Database	Annually
Updating Shelter Database	Annually
Updating Weak & Vulnerable Points Database	Annually
Updating Agriculture Database	½ Yearly
Updating Zones & Sub Zones	½ Yearly
Relief Material Storage Points	½ Yearly
Relief Material Stock Position	½ Yearly
List of Rescue Equipments	½ Yearly
List of private Equipments Holders	½ Yearly
List of Task Forces	Annually
List of Resources Personnel in Private	Annually
List of Chemical Hazards Prone Factories	Annually
List of Mounds / Helipads	Annually
List of Block / G.P.S / Villages / Population	Annually
Alternate Route Charts	½ Yearly
Animal Population	Yearly
Health/ Police/ Educational Institutions	Yearly
VHF Points	½ Yearly
Vehicles List	Annually
List of Warning Centres	½ Yearly

Schedule for updating plans

Plans	Updating Time
District Disaster Managements Plan	Yearly
Line Department Disasters Management Plan	Yearly

**CHECK LIST FOR DC,ADC,CMO, BDO/ TEHSILDARS
FOR LEH DISTRICT.**

PRE DISASTER PHASE

- Mapping of the Hazard Prone area.
- Training of community volunteers.
- Trained volunteers can take leadership.
- Take care of health problems.
- Identification of local resources.
- Storage facilities.
- Maintenance of communities/transportation/supply line.
- Evacuation.
- Rescue operation.
- First Aid & Camp management.
- IEC Programmes on Health, Hygiene and sanitation.
- Medical Camps.
- Monitoring and Surveillance.
- Restoring supply line.
- Communication and transportation.
- Disposal of the Dead body.

POST –DISASTER PHASE

- Rehabilitation.
- Protection Health measures.
- Monitoring and surveillance.

OFFICIAL ⇒ Deputy Commissioner cum Chairpersons, Disaster Management Committee

Function	ACTIVITY	INVOLVEMENT OF OTHER PERSONNEL/ MANPOWER & REQUIREMENT	RESOURCES REQUIRED TO BE SOURCED FROM	TIME FRAME & REMARKS
PREPAREDNESS BEFORE CALAMITY SEASON	1. Take stock of the calamity situation in the district over the next one-year through District level Natural calamity meeting and through other agencies.	1. All District level officials.	1. SDMA,NDMA	During normal period
	2. Categorizing Hazard zones and strategy meeting to combat.	2. All SDMs.	2. SDMA	
	3. Prepare a notebook for recording of all Do's and Don'ts in types of natural calamity.	3. All Tehsildars.	3. POLICE/FIRE SERVICE	
	4. Ensure IEC through Emergency section/BDO's/Tehsildars/NGO's AW Centers/Street plays/Workshops/Wallings.	4. All BDO's.	4. R&B /HIMANK	
	5. Take stock of the DCR and make it functional as per SOP (SOP) to be prepared earlier).	5.ADC/ACR	5. LINE DEPTs, PWD,POLICE,	
	6. Activising DCR & Deputing senior officers from time to time to review the receipt of information and dissemination.	6. ACR	6. ARTO	
	7. NGO's co-ordination meeting be done. Capacity assessment of different NGO's be recorded in meeting to help in calamity like situation, if happens-risk area of operation be demarcated clearly so that list overlapping may take place.	7. Leading NGOs.	7. Civil Defence	
	8. A checklist be prepared in the meeting and handed over to them pretty earlier.	8. NSS/NCC/ Police, Fire, Civil Defence	8 Commandant / Co-ordinator of NCC / NSS /	
	9. Ensuring least communications system to the inaccessible villages.	9. TDM,Tehsildars,BDOs	9. BSNL	

WARNING DISSEMINATION PHASE

- 10. Check stock of the Public distribution system and arrangement of the temporary godowns.
- 11. Take stock of Resource /Resource personnel of other department viz. Police, Fire, Civil Defence and of NSS/NCC/NYKS.
- 12. Census of Country /Power Boats to be deployed on hire during crisis.
- 13. Take stock of road cleaning equipment and vehicles for relief operation.
- 14. Assignments of specific duties to officers/Sr. Officers at Headquarters.
- 15. Linkage with other line departments.
- 16. Ensure functioning of warming systems & communications systems.
- 17. Ensure Mock drill.
- 18. Preparing a map showing the location of temporary shelter camps and cyclone shelters with accessibility. Identification of Shelter/Temporary shelter in high elevated places and arrangements of tents etc.
- 19. Identification of drought Prone areas.

20. Ensuring formation of village level Disaster Management Committee through Block Development Officers.

- | | | | |
|---|---|--|---|
| <ul style="list-style-type: none"> ✓ Dissemination of warming to District level officials / Revenue field functionaries/ PRIs & Coordination with the Revenue ✓ Setting up control room and manning of control Room round the clock. ✓ Assignment of duties to the District level officials and SDMs/ Tehsildars/ BDOs. ✓ Arrangements of vehicle and sound system for information dissemination. ✓ NGO coordination and assignment of duty. ✓ Proper record keeping and transmission of information to all the levels. | <ul style="list-style-type: none"> * All District level officials * All SDMs * All Tehsildars. * All BDOs *AD, Information * Leading NGO's *Police | <ul style="list-style-type: none"> * VHF from the Police / SDMA. * HAM RADIO * Mike-set / Batteries/Generators available in the district information office/ from the Private parties on requisition. | <p>First information Report (FIR) will be communicates to all the Revenue field functionaries / Dist level officers orally on receipt information followed by the written within first two hours.</p> |
|---|---|--|---|

✓ To warn people about the impending danger & to leave for safer places through AIR/DOORDHARSAN/BDOs/ Tehsildars.

SEARCH, RESCUE & EVACUATION PHASE

<ul style="list-style-type: none"> ○ To co-ordinate with Civil defence – NGOs/ARMY//Police/PARA MILITARY for support. ○ Arrangement / Deployment of boats/vehicles etc. for evacuation. ○ Evacuate people of marooned areas and administer emergent relief. ○ Organize trained task force members and deputing to marooned & Cut-off areas for evacuation. ○ Deploy police for maintaining law & order & peace keeping during evacuation. ○ Mobilize people to take shelter in the identified / safer shelters. ○ Deploy Police / Fire Brigade/ARMY/Para-Military for search and rescue. ○ Co-ordination with the NCC/NSS/Civil Defense/ Army, Para-military etc. for rescue operation ○ Ensuring proper utilization of the rescue materials. ○ Prepare inventory of shelter places and map indicating the shelter centers. ● Provide & arrange Rescue kit at risk areas. 	<ul style="list-style-type: none"> * Police * Army * ITBP * CRPF * Fire Brigade * Leading NGO * Tehsildars * BDOs * Programme Co-ordinators of nss / NCC/Defence Units. 	<p>1. Power Boats / Country Boats/vehicle /rope/rescue/kits and trained resource personnel from SDMA / NDMA / Army/Para-military/Civil Defence/ Hired from the private parties according to the requirements.</p>	<p>Immediately after occurrence of the calamity.</p>
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	RELIEF DISTRIBUTION PHASE	<ul style="list-style-type: none"> ○ Procurement and transportation of Relief materials to affected pockets/areas. ○ Deployment of vehicle. ○ Arrangements of free kitchen in the shelter camps & affected areas. ○ Coordinating with the NGOs / Other voluntary organization & PSUs/UNICEF/ UNDP/ REDCROSS/OXFAM other For continuing Relief Operation. ○ Ensuring Health care activities by the CMO in the shelter camps & through mobile Units/ Temporary Health camps in the affected areas and regular check up of Health. ○ Ensuring Animal health activities by the CAHO/DSHO through Mobile units/ Temporary Health camps in the affected areas. ○ Ensuring safe drinking water through Mobile van/water pouch in the shelter camps / effected areas - PHE ✓ Monitoring 	SDMs CMO, Tehsildars BDOs Medical Officers Paramilitary Forces Police PHE/ ARTO/DDMG Leading NGO	FCI, Private stockiest, SDMA,NDMA Director Animal Husbandry, PSUs/ UNICF/ UNDP/REDCROSS/ OXFAM etc.	Whenever required.
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		<p>a) SHORT TERM MEASURES</p> <ul style="list-style-type: none"> • Formation of task force with specific equipments. ○ Assigning responsibilities for specific areas. ○ Coordinate road-cleaning activities to assist local relief work ○ Begin cleaning roads, assemble casual labour provide a work team carrying emergency tool kits ○ Towing vehicle, Earth moving equipments, cranes, construct temporary roads. ○ Keep National & other Highways clear from disaster effects. ○ Damage assessment ○ Temporary supply of drinking water ○ Providing labour employment to the needy agricultural laborers. ○ Arrangements of Food/Drinking water/ Medicine in the shelter places. ○ Arrangements of Food/Drinking water/ Medicine in the shelter places. ○ Providing the lighting facilities for shelter places. ○ Deployment of Police Personnel. ○ To reduce adverse impact on Agriculture farmers should be advised alternating cropping pattern. ○ Ensuring crop insurance 	<p>All the district level officials /officers at district Headquarters / Tehsildars/ BDOs/ AD,CAPD/ DR,CO-OP POLICE/ PARAMILITARY FORCES</p> <p>Works Department/ Water resources /education and youth services/ Information Department / Forest Department /</p>	<p>Cranes, Road cleaning equipments water tankers, funds, vehicles, Gen sets, Earth moving equipments, seeds, fertilizers, pump sets.</p> <p>PHE,CAO.</p> <p>FUNDS SDMA// Works Department / PHE/ education and youth services /Information Department / Forest Deptt</p>	<p>As & when required</p>
		<p>B) LONG TERM MEASURES</p> <ul style="list-style-type: none"> ○ Giving priority for immediate restoration of <ul style="list-style-type: none"> ➤ Road Communication ➤ Irrigation System ➤ Educational Institutions ➤ Govt. Institutions ➤ Electrical installation ➤ Drinking water supply ➤ Construction of IAY houses for the BPL families & ➤ Developing water-harvesting structures. ➤ Development Programme viz-Haryali, DPAP, MNREGS, Poverty alleviation Programme etc. should be ensured 			

	Coordination with line departments and Civil Society Organizations	<ul style="list-style-type: none"> • Meeting with district level officials / Officials at Head quarter and chalk out emergency plan with vulnerable areas and resource list. • Co-ordination meeting of NGOs & Assignment of duties. • 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 SDMA/NDMA for supply of Temporary shelter materials. • Keep informing AD,CAPD for supply of food articles/ procurement 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 drinking water. • Provision of Medical facilities. • Repair/Restoration of Roads. • Transportation of Relief and Human Resources. 	<p>All district level officials / NGOs/ SDMs/ Officials of the District office/SDMA.</p>	<p>Materials for temporary shelter procured from DFO/SDMA/NDMA/ UNDP/ NGO/ PSUs etc. Vehicle –RTO/Private agencies. CAHO- Medical requirements, CAHO-Cattle feed Volunteers Deputation by Co-coordinators etc.</p>	<p>At the time of requirements on war footing.</p>
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OFFICIAL – ADDL. DEPUTY COMMISSIONER(CEO)

FUNCTION		ACTIVITY	INVOLVEMENT OF OTHER PERSONNEL/ MANPOWER REQUIREMENT	RESOURCES REQUIRED TO BE SOURCED FROM	TIME FRAME & REMARKS
PRE DISASTER PHASE	Warning dissemination Phase	<ul style="list-style-type: none"> ○ Ensuring proper dissemination of warning both downward and upward level improper interval of timing. ○ Ensuring proper functioning of Control room. • Deployment of Office in charges of collectorate in control room round the clock basis. 	POLICE, BDO, Tehsildar, Telecommunication, Other officials of the dist office.	VHF, Telephone, Satellite phone/ HAM from Police/BSNL etc.	<i>FIR</i>
	Rescue & Evacuation phase.	<ul style="list-style-type: none"> ○ Requisition of Vehicle. ○ Requisition of Police/Fire personnel. • Requisition of staff from other sections of collectorate. 	RTO/DDMG POLICE, BDO, Tehsildar, Telecommunication, Other officials of the dist office.	Vehicles, Police personnel, Other staffs	<i>Soon after receipt of the information.</i>
ON/ DURING DISASTER PHASE	Relief Distribution phase.	<ul style="list-style-type: none"> • Diversion of Relief materials to different affected areas. 	RTO/DDMG, AD-CAPD, Paramilitary forces, NGO's.	Vehicle, foodstuff, Other relief materials.	<i>As per the requirement of the situation</i>
	Restoration phase.	<ul style="list-style-type: none"> • Keeping liaison with all line departments. • Collection of progress report on restoration & transmission to Govt./SDMA/NDMA/ PWD/HIMANK. 	Line departments	Up-to-date reports on repair restoration.	<i>Till completion of restoration work.</i>
POST DISSASTER PHASE	<i>Coordination with line departments and civil society organizations</i>	<i>☑ Supervision of restoration activities under taken by different voluntary agencies.</i>	<i>NGOs & Line department</i>	<i>NGOs list & their ongoing development activities.</i>	<i>Completion of restoration work.</i>

OFFICIAL – CMO

FUNCTION CDMO		ACTIVITY	INVOLVEMENT OF OTHER PERSONNEL/ MANPOWER REQUIREMENT	RESOURCES REQUIRED TO BE SOURCED FROM	TIME FRAME & REMARKS
PRE DISASTER PHASE	Preparedness & Warning dissemination Phase	<ul style="list-style-type: none"> ○ Stock piling of Life saving drugs/ORS packets/ Halogen tablets. ○ Awareness message to stop the outbreak of epidemics. ○ Disease surveillance and transmission of reports to the higher authorities one daily basis. ○ Vaccination. ○ To obtain /transmit information on natural calamities of District Control Room. ○ Advance inoculation programme in the flood/ Cyclone prone areas. • Ensuring distribution of area of operation among the mobile team. 	<ul style="list-style-type: none"> • CAHO • BMO • Sub-divisional level Animal Husbandry Officers/Sheep Husbandry officers • MEDICAL OFFICERS OF • PHC/CHCs • ICDS • Leading NGOs 	Director Health services/Health department/ Private Practioners/ First Aid Trainers/ Red Cross/ Ambulance/ CDS etc.	<i>FIR</i>
	ON/ DURING DISASTER PHASE	Rescue & Evacuation phase.	<ul style="list-style-type: none"> ☑ Deployment of Medical staff. ☑ Treatment of the injured persons and Transportation of the injured to hospitals. 	Medical staff, Vehicle.	Police/ Fire officers/ Rescue Trained volunteers/ NGOs/ Youth Volunteers.
	Relief Distribution phase	<ul style="list-style-type: none"> ☑ Constitute mobile teams and visit the worst affected areas. ☑ Dis-infection of Drinking water sources. ☑ Opening of site operation camps. ☑ Regular Health Check up at Shelter camp & affected areas. ☑ Assigning responsibilities of the BMOs for close monitoring of Health camps. 	Mobile vans, Tents.	Para military forces / Police/ Fire officers/ Rescue Trained volunteers / NGOs/ Youth Volunteers.	<i>Till abatement of calamity</i>
POST DISSASTER PHASE	Restoration phase	<ul style="list-style-type: none"> ☑ Close monitoring of Health camps. ☑ Ensuring adequate quantities of medicine/ disinfectants. ☑ Ensuring surveillance of outbreak of water borne diseases/ Malnutrition. 	Medical staff / NGOs/ Ambulance / ICDS/ Village committee.	Director of Health services/ Health department / UNICEF / Red Cross etc.	<i>Till Normalization of situation</i>
	<i>Coordination with line departments and civil society organizations</i>	<ul style="list-style-type: none"> ☑ <i>Co-ordination with NGOs/ ICDS projects, village committee.</i> ☑ <i>PHE</i> 	<i>NGOs / ICDS Village committee.</i>	<i>NGOs / ICDS workers</i>	<i>Till Normalization of situation</i>

OFFICIAL : SR. SUPERINTENDENT OF POLICE:

FUNCTION		ACTIVITY	INVOLVEMENT OF OTHER PERSONNEL/ MANPOWER REQUIREMENT	RESOURCES REQUIRED TO BE SOURCED FROM	TIME FRAME & REMARKS
PRE DISASTER PHASE	Warning dissemination Phase	<input checked="" type="checkbox"/> Communication establishment with District and Block / Tehsil Control rooms and departmental offices within the diversion. <input checked="" type="checkbox"/> Alerting the Addl. Police Reserve force for deployment at the time of calamity. <input checked="" type="checkbox"/> To issue directive to police field functionaries to co-operate with Revenue Personnel in management of Relief operation.	Wireless telegraph/ Civil Defence	VHF / Satellite Phone /Other improved telecommunication system from Telecommunication department / SP signal.	<i>FIR & Pass it immediately to all the concerned officials.</i>
	<i>Rescue & Evacuation phase.</i>	<input checked="" type="checkbox"/> Overall traffic management and patrolling of all highways and other access roads to disaster sites. <input checked="" type="checkbox"/> Identification of antisocial elements. <input checked="" type="checkbox"/> Assistance to district authorities for taking necessary action against hoarders, black marketers and those found manipulating relief material. <input checked="" type="checkbox"/> Co-ordination with fire personnel. <input checked="" type="checkbox"/> Provision of security in transit camps/ feeding centers/ relief camps/ cattle camps/ cooperative food stores and distribution centers. <input checked="" type="checkbox"/> Safe guarding of belongings of evacuees.	<i>Civil Defence/ Paramilitary force / Addl. Police Reserve forces/ Other skilled persons related to rescue & evacuation./ fire personnel.</i>	<i>Vehicle / Temporary VHF sets form RTO & Dy SP signal / Home Department.</i>	<i>Till completion of the process</i>

	Relief Distribution Phase	<input checked="" type="checkbox"/> Coordination with military service personnel in the area being carried out. <input checked="" type="checkbox"/> Officers made available to inquire into and record	Civil Defence/ Paramilitary force / APR forces / Other skilled persons related to rescue & evacuation./Fire	Vehicle / communication system./Boat from fisheries or from private parties.	<i>Up to continuance of the relief operation.</i>
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		<p>of deaths.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assisting the community in organizing emergency transport or injured. <input checked="" type="checkbox"/> Assisting the Revenue official / NFOs in administering emergent relief. <input checked="" type="checkbox"/> Providing escorts in transit of relief materials to the relief camps/ affected areas. 	personnel.		
POST DISASTER PHASE	Restoration Phase	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> All staff informed about the disasters, likely damages & effects. <input checked="" type="checkbox"/> Assisting in collection of damage statistics of private properties and distribution of assistance <input checked="" type="checkbox"/> Maintaining law and order. 	Civil Defence/ Paramilitary force / APR forces/ Other skilled persons related to rescue & evacuation./ fire personnel.	Vehicle / communication systems.	<i>Upto continuance of the relief operation.</i>
	<i>Coordination with line departments and civil society organizations</i>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> <i>Close Coordination with district administration & other philanthropic institutions.</i> <input checked="" type="checkbox"/> <i>Co-ordination with fire personnel during.</i> 	<i>District Administration, Fire officers.</i>		<i>Till normal situation regains.</i>

OFFICIAL – SDM/BLOCK DEVELOPEMNT OFFIER/ TEHSILDARS

FUNCTION		ACTIVITY	INVOLVEMENT OF OTHER PERSONNEL/ MANPOWER REQUIREMENT	RESOURCES REQUIRED TO BE SOURCED FROM	TIME FRAME & REMARKS
PRE DISASTER PHASE	PREPAREDNESS	<ul style="list-style-type: none"> ○ Vulnerability map of the Sub-division/ Block./Tahasil & Causes. ○ List of cut off areas with alternate route map. ○ List of storage Points & facilities available, dealers of food stuffs. ○ Control room setup/ assignment of control room duty. ○ Pre-positioning of staff for site operation centers. ○ Arrangements of alternative communication / generator sets etc. ○ Assigning different responsibilities to extension officers/ revenue supervisors / VLWs. ○ Formation of village level disaster committee. ○ Formation of village level task forces. ○ Identification of shelter places with map. ● <input checked="" type="checkbox"/> Contacting with Police/ Fire Personnel. 	<input checked="" type="checkbox"/> All the Sub-division/Block and Tehsil functionaries. Police/ Fire Personnels/ARTO/ Village Level Task Force/ Trained Volunteers	Boats through Fisheries Dept., Army, Paramilitary/ Vehicle arranged locally/ ARTO/Skilled persons/ Police/ Fire/ NGOs/ Village Committee/ Task Force.	FIR

	<p>WARNING DISSEMINATION PHASE</p>	<p>ARRANGEMENT OR REQUISITION OF JEEPS/ TREKKERS/AUTO RICKSHAW TO DISSEMINATE RECEIVED WARNING INFORMATIONS TO THE POPULATION OF VULNERABLE/WEAK PLACES.</p> <p>DISSEMINATION OF WARNING/ COORDINATION WITH DISTRICT CONTROL ROOM.</p> <p>TO WARN THE PEOPLE OF PROBABLE AFFECTED AREAS TO LEAVE FOR IDENTIFIED SAFER AREAS WITH THEIR DOMESTIC ANIMALS AND PERSONAL BELONGINGS.</p> <p>ARRANGEMENT OF BOATS ON HIRE AVAILABLE LOCALLY,</p> <p>DEPLOYMENT OF BOAT IN THE MOST VULNERABLE AREAS.</p>	<p>RTO/SOUND SYSTEM/PRIVATE PARTIES FOR VEHICLE/BOATS/ SPECIAL MESSENGERS TO THE PROBABLY AFFECTED AREAS.</p>	<p>SOUND SYSTEM LOCALLY ARRANGED/ VEHICLE – LOCALLY/ RTO</p>	<p>AS & WHEN REQUIRED</p>
	<p>Rescue & Evacuation phase</p>	<p>Deployment of Police/Fire Brigade for search and rescue.</p> <p>Co-ordination with civil defence/NCC/NSS/Army, Para-military for rescue operation.</p> <p>Ensure availability of rescue materials.</p> <p>To put up the evacuees in the identified shelter places and arrange all common needs for them.</p> <p>Provide and arrange rescue kit.</p> <p>Clearance of road blockage for restoring communication to affected Villages</p>	<p>All the Block & Tehsil functionaries. Police/Fire personnel/ARTO/ Village level task force/trained volunteers.</p>	<p>Sound system Locally arranged/ Vehicle – locally/ARTO</p>	<p>As & when required</p>

	RESTORATION PHASE	<p>COLLECTION OF DAMAGE STATISTICS FROM REVENUE AUTHORITIES/ICDS/SCHOOL BUILDINGS ETC.</p> <p>SUPERVISION OF RELIEF OPERATION AND RESTORATION WORK IN THE AFFECTED AREA.</p> <p>KEEPING LIAISON WITH DISTRICT ADMINISTRATION /CMO/CAHO/POLICE/PSUS /UNICEF/UNDP/ REDCROSS ETC.</p>	<p>ALL THE BLOCK & TEHSIL FUNCTIONARIES. POLICE/FIRE PERSONNEL/RTO/ VILLAGE LEVEL TASK FORCE/TRAINED VOLUNTEERS. CMO/CAHO/POLICE/PSUS /UNICEF/UNDP/ REDCROSS.</p>	VEHICLE + MANPOWER + FUNDS	TILL COMPLETION OF THE RESTORATION WORK.
	Coordination with line departments and civil society organizations	<p>Ensuring coordination with the Village committee.</p> <p>Co-ordination with district administration & with other line departments.</p> <p>Co-ordination with NGOs/Civil society organization etc.</p>	Dist. Officials/ PSUs/UNICEF/UNDP/ REDCROSS	Meeting in regular intervals.	Till completion of the restoration work.

Council Secretariat

LIST OF IMPORTANT TELEPHONE NUMBERS

Shri Zorababam	Chief Executive Officer	94193479006	252212,250187Fx 201537	252090
Shri Sonam Dorje	Executive Councillor (Agriculture)	9469049292	252397	
Dr. Sonam Wanchuk	Executive Councillor (Health)	9419815767	252109	
Shri Ghulam Abbas	Executive Councillor (CA&PD)	9419346156	252397	
Shri Gurmet Dorjay	Executive Councillor (Animal / Sheep)	9419178984	252398	
Smt. Tsering Spalzes	PA to HCEC	9419341444, 9906983620	252212 250187(fx)	201148

Deputy Commissioner's Office

Shri Tsering Angchok, KAS	Deputy Commissioner	9419139028	252010 252106 (F) 201514	252027, 201513
Sh. Tashi Morup	Addl Deputy Commissioner		252049	267682
Sh. Jamyang Namgial,	Tech. Director NICNET	9419178272 9906990844	252632 252921	255100
Smt. Tsewang Dolma	Assistant Commissioner (Rev)	9469569212	252685	252301
Sh Tashi Tundup	Chief Planning Officer	9419179935	252226	244027
Sh A. Hakeem	Deputy Director (Garages)	9419178677	252129	252129
Sh. Sharma	Accounts Officer		252740 201512	250430
Sh T. Morup	HQA to DC	9419336633	252685 252049	253520 226025
Smt. Tsering Angmo,	PA to DC, Leh		252010	253350
Sh. Tsering Dorjay	Section Officer	9419179981	252685	225022
Sh. T. Mutup,	Nazir	9419880583	252740	253457

AGRICULTURE/ANIMAL HUSBANDRY

Sh. G. M. Bardi	Chief Agriculture Officer	9906996040	252028	253086
Shri Thinles Dawa,	SDAO	9419349179	252349	253518 252953
Dr. G. M. Paray	Associate Director, SKUAST	9419009738	252308 267389	252308 267389
Dr. Nazir Ahmad	Chief Animal Husbandry Officer	9419428275	252187	
Dr. Stanzin (Babuley)	DIO	9419177687	252187 252004	151106
Dr. Abdul Qayum	DIO	9419178417	252231	252231
Dr. Mohd Iqbal	Vetenary Disease Investigation Of	9419218382	252004	
Dr. M. Ismail,	Manager Bull Farm Agling	9419348644	253406	
Dr. Quayum		9419178417		

COOPERATIVE/COMMAND AREA DEV./ CULTURE ACADEMY

Sh. Sonam Norboo	Deputy Registrar Cooperative	9419801354	252034	265196
Sh. Mohd Abass	District Audit Officer		251776	
Sh P. Wangchuk Kalon	President LFS	9419345561 9906998101	254691 250684	252177
Shri, Tsering Angchok	Asstt. Registrar Cooperative		250988	
Sh, Tashi Tsetan,	Deputy Director, CAD	9419012705	252470	252485
Sh. T. Paljore.	Cultural Officer Culture Academy	9419218232	252088	245008

DDA/DRDA

Shri Lobzang Thinless KAS	Project Director, DRDA		252093 252634	
Shri Moses Kunzang KAS	Project Officer, DRDA	9419178322	252093	253302
Sh Tashi Tundup	Dy. Director (Pg) District Disaster Management Plan	9419212902	252226	207283 253676

EMPLOYMENT EXCHANGE/EXCISE & TAXATION

LIST OF DSPTs in Leh DISTRICT

SSA	SDCA	Village	New Ph No	Custodian Name	Type
LEH	LEH	KAYA	08991922001	DOEJAY GYALTSON	VPT
LEH	LEH	RUMBAK	08991922025	MEMBER RUMBAK VILLAGE	VPT
LEH	NOYMA	TOGYARMALE	08991922002	COMMANDANT 24TH BN.,ITBP	Coml
LEH	NOYMA	PUGA (HOTSPRING)	08991922003	COMMANDANT 24TH BN.	Coml
LEH	NOYMA	TSOYSALU	08991922004	COMMANDANT 24TH BN.	Coml
LEH	NOYMA	THAKUNG	08991922005	COMMANDANT 24TH BN.	Coml
LEH	NOYMA	ZARSAR	08991922006	COMMANDANT 5TH BN.	Coml
LEH	NOYMA	CHUMAR	08991922007	COMMANDANT 5TH BN.	Coml
LEH	NOYMA	CHUSMULE	08991922008	COMMANDANT 5TH BN.	Coml
LEH	NOYMA	DEMCHOK	08991922009	COMMANDANT 5TH BN.	Coml
LEH	NOYMA	DBO	08991922010	COMMANDANT 16TH BN.	Coml
LEH	NOYMA	BUR TSA	08991922011	COMMANDANT 16TH BN.	Coml
LEH	NOYMA	CHARTSE	08991922012	COMMANDANT 24TH BN.,ITBP	Coml
LEH	LEH	NARAKS	08991922014	LOBZANG TOUTAN	VPT
LEH	LEH	YULCHUNG	08991922015	STANZIN CHOKLES	VPT
LEH	LEH	FOTOKSAR	08991922016	TUNDUP GYALTSON	VPT
LEH	LEH	LINGSHAD	08991922017	THINLAS DORJAY	VPT
LEH	LEH	HANUPATA	08991922018	KONCHOK TSOMO	VPT
LEH	LEH	KHARDONG	08991922020	TUNDUP DORJAY	VPT
LEH	NYOMA	LEH	08991922022	SDE (RURAL)	SERVICE
LEH	NYOMA	PHOBRANG	08991922023	24 ITBP PHOBRANG,ITBP	VPT
LEH	NYOMA	TANGTSE	08991922024	BRIGADE SIGNAL COMPANY	VPT
LEH	LEH	SUNDHA CHENMO	08991922026	STANZIN WANGDUS	VPT
LEH	LEH	SUMDHA CHUNov	08991922027	TUNDUP WANGAIL	VPT
LEH	LEH	CHILING	08991922028	TSERING DAWA	VPT
LEH	LEH	ANLAY	08991922029	M/S ASTRO PHYSICS	Coml
LEH	LEH	GYA	08991922030	SONAM TABGYAS	VPT
LEH	NYOMA	KAIRY	08991922031	TSERING GURMET	VPT
LEH	NYOMA	HIMYA	08991922032	NWANG TANGAIS	VPT
LEH	NYOMA	LIKHEY	08991922033	TSERING NIBRU	VPT
LEH	LEH	DARKON	08991922034	STANZIN WANGAIL	VPT
LEH	LEH	LEIDO	08991922035	SONAM ANGCHUK	VPT
LEH	NUBRA	CHAMSHAN CHARASA	08991922036	TSERING ANGCHUK	VPT
LEH	NUBRA	DIGAR	08991922037	TSEWANG DORJEY NAMBADAR){	VPT
LEH	LEH	DEMCHOK	08991922038	RIGZEN TANGAY	VPT
LEH	LEH	KARZOK	08991922039	LAMA GIGMAT LOTUS	VPT
LEH	LEH	DIPLING	08991922040	TSEWANG KONCHOK	VPT
LEH	LEH	SKUMPATA	08991922041	SONAM DAWA	VPT
LEH	NUBRA	SIKDMANG	08991922042	TSERING YANGSKIT	VPT
LEH	NUBRA	CHUMATHANG	08991922043	TSERING YANDUP	VPT
LEH	NUBRA	SKU	08991922044	NAWANG SHERAP	VPT
LEH	NUBRA	MARKA	08991922045	TASHI LARGYAL	VPT

LEH	LEH	HANKAR	08991922046	SKARMA ODZAR	VPT
LEH	NYOMA	ANELY	08991922047	KHANDAL LANDOL	VPT
LEH	NYOMA	MOOD	08991922048	JIGMET LOTUS	VPT
LEH	NYOMA	KOYAL	08991922049	URGAIN TSERING	VPT
LEH	LEH	HANU BARMA	08991922050	TSERING NURBOO	VPT
LEH	LEH	WANLA	08991922051	TSEWANG NAMGAIL	VPT
LEH	LEH	SKINDAYANG	08991922052	TSERING ANGDUS	VPT
LEH	LEH	HIPTI	08991922053	NURBOO	VPT
LEH	LEH	MANGYU	08991922054	SONAM ANGDUS	VPT
LEH	LEH	MERAK	08991922055	ASST. ADMIN OFFICER	Coml
LEH	LEH	SILMO	08991922056	MOHAD BOREIR	VPT
LEH	LEH	DARCHIK	08991922057	18 MARATHA LTGT INFANTRY C/O 56 APO	VPT
LEH	LEH	LALUNG	08991922058	MOHMAD AMIN	VPT
LEH	KARGIL	KUKSTAY	08991922059	HAJI ASGAR	VPT
LEH	KARGIL	KARKIT	08991922060	HAJI ISSA	VPT
LEH	KARGIL	HANISKOT	08991922061	RINCHEN TONYOUT	VPT
LEH	LEH	MAN-PANGONG	08991922062	RIGZEN NAMGAIL	VPT
LEH	LEH	KARGIAM	08991922063	TUNDUP DORJEY	VPT
LEH	LEH	SHACHOKOL	08991922064	KONCHOK SHAISRAB	VPT
LEH	LEH	RIZONG	08991922065	LOBZANG TSUNDUS	VPT
LEH	LEH	KUNGIAM	08991922066	PADMA DORJEY	VPT
LEH	LEH	TARCHIT	08991922067	TSERING MOUTUP	VPT
LEH	LEH	TERI	08991922068	TASHI STOBGAIS	VPT
LEH	LEH	TUKLA	08991922069	RIGZEN ANGDUS	VPT
LEH	NOBRA	TANGYAR	08991922070	TSEWANG DORJE	VPT
LEH	NOBRA	KHYUNGRU	08991922071	TSERING NORBOO	VPT
LEH	NOBRA	KHEMI	08991922072	RINCHEN TAKPA	VPT
LEH	NOBRA	WARISFASTAN	08991922073	TAKPA STOB DAN	VPT
LEH	NOBRA	HUNDAE DOG	08991922074	TSEWANG SANDUP	VPT
LEH	LEH	SAMANROCKCHAN	08991922075	NAMGAIL TUNDUP	VPT
LEH	LEH	KANGI	08991922076	NAMBADAR KINGI	VPT
LEH	LEH	HINJU	08991922077	THENLIS JAMYANG	VPT
LEH	LEH	GERA	08991922078	TSETAN NAMGAIL	VPT
LEH	LEH	URSI	08991922079	TUNDUP NAMGAIL	VPT
LEH	LEH	PHANJILA	08991922080	KONCHOK SAMSTAN	VPT
LEH	LEH	LOCHIKYABDAN	08991922081	NAWANG TOBDAN	VPT
LEH	NOBRA	SHUNUDO	08991922082	TSERING NURBOO	VPT
LEH	NOBRA	LARGYAP GONGMA	08991922083	TSEWANG NURBOO	VPT
LEH	NOBRA	LARGYAP YOKMA	08991922084	JIGMET PUNCHOK	VPT
LEH	NOBRA	KHEMA	08991922085	TSEWANG NURBOO	VPT
LEH	NOBRA	CHANGMAR	08991922086	GHULAM	VPT
LEH	NOBRA	CHALUNKA	08991922087	MOHAMMED HANIFA	VPT
LEH	NYOMA	KARGYAM	08991922088	THINLES GYALTSON	VPT
LEH	NYOMA	LUNGPARMA	08991922089	TUNDUP NURBOO	VPT
LEH	NYOMA	KHERAPULU	08991922090	TASHI JOLDAN	VPT
LEH	NYOMA	CHEPRA (SATO)	08991922091	STANZIN NAMTAK	VPT

LEH	NYOMA	YOURGO	08991922092	TASHI DORJEY	VPT
LEH	NYOMA	MAN	08991922093	RIGZIN TARGAIS	VPT
LEH	NYOMA	SHAYOK (KHANGSAR)	08991922094	STANZIN DORJEY	VPT
LEH	NYOMA	CHILAM	08991922095	THUPSTAN PUNCHOK	VPT
LEH	NYOMA	EIRATH	08991922096	KONCHOK RIGDAN	VPT
LEH	NYOMA	MUKLAB	08991922097	DORJE NAMGAIL	VPT
LEH	NYOMA	THARUK (KONGMPA)	08991922098	TSERING NAMGAIL	VPT
LEH	NYOMA	PHOLONGLAY (JORA)	08991922099	STANZIN DORJEY	VPT
LEH	NOBRA	BURMA VILLAGE	08991922100	TSEWANG PUNCHOK	VPT
LEH	NOBRA	KURI VILLAGE	08991922101	STANZIN CHOKYANG	VPT
LEH	NOBRA	MURGI VILLAGE	08991922102	TASHI DORJEY	VPT
LEH	NOBRA	RAKRUK	08991922103	SONAM TSHOCHUK	VPT
LEH	NOBRA	THRISHK	08991922104	TSEWANG DORJEY	VPT
LEH	NOBRA	YURKHUY	08991922105	TASHI LADKHAL	VPT
LEH	NOBRA	AYE	08991922106	PUNCHOK STOB DAN	VPT
LEH	NYOMA	LUNKUNG	08991922107	RIGZIN ZANGPO	VPT
LEH	NYOMA	PANGMIK	08991922108	KONCHOK RIGZEN	VPT
LEH	NYOMA	HOREI CHORTEN	08991922109	TASHI WANGCHUK	VPT
LEH	NYOMA	HUNDERI	08991922110	SONAM TASHI	VPT
LEH	NYOMA	KUMDOK	08991922111	CHIMAL DORJAY	VPT
LEH	NYOMA	MAHEY	08991922112	NAWANG DORJAY	VPT
LEH	NYOMA	KESAR	08991922113	TSERING DOLKAR	VPT
LEH	NYOMA	NEE	08991922114	DEACHEN ANGMO	VPT
LEH	NYOMA	KHATPO	08991922115	PADMA RIGZEN	VPT
LEH	NYOMA	TOKLA PHOLAK	08991922116	JEGMET CHOMDOL	VPT
LEH	NYOMA	TSEYOUL	08991922117	ANGCHOK DORJAY	VPT
LEH	NYOMA	TERRIDO	08991922118	TASHI DORJEY	VPT
LEH	LEH	RUMTSE	08991922119	NAMGAIL TSERING	VPT
LEH	LEH	SASOMA	08991922120	TSEWANG STANZIN	VPT
LEH	LEH	MEROO	08991922121	TSERING JOLDAN	VPT
LEH	LEH	PHOKCHAYPHU	08991922122	TASHI DORJAY	VPT
LEH	LEH	EIG	08991922123	RIGZEN DORJAY	VPT
LEH	LEH	SASPOCHAY	08991922124	TSETAN NAMGAIL	VPT
LEH	LEH	YANTHANG	08991922125	TSERING PADMA	VPT
LEH	LEH	ULLEY	08991922126	TSEWANG NORBOO	VPT
LEH	LEH	HANUYOKMA	08991922127	DORJEY GAYALTSON	VPT
LEH	LEH	HANUTHANG	08991922128	AMER MOHD	VPT
LEH	LEH	CHHANCHAKS	08991922129	TSERING DUKGAIS	VPT
LEH	LEH	DOMKARGOGMA	08991922130	TSEWANG RIGZEN	VPT
LEH	LEH	THONGROG	08991922131	SKARMA MINGUR	VPT
LEH	LEH	LUNBA SKURBUCHAN	08991922132	MORUP STANZIN	VPT
LEH	LEH	URBIS	08991922133	TSEWANG PHUNCHOK	VPT
LEH	LEH	KURANBIK DOMKHAR	08991922134	MURUP DOLMA	VPT
LEH	LEH	SHANG	08991922135	RIGZIN YANGDOL	VPT
LEH	NOBRA	RASEMRO	08991922137	TUNDUP DORJEY	VPT
LEH	NOBRA	RONGDO	08991922136	PHUNTSOG CHOSPHEL	VPT

LEH	NOBRA	PHARKA	08991922138	TASHI NORBU	VPT
LEH	NOBRA	SHATI	08991922139	PHUNCHOK TUNDUP	VPT
LEH	NOBRA	HENACHI	08991922140	THUKJI SKALZANG	VPT
LEH	NOBRA	CHANGLUNG	08991922141	TASHI WANGAIL	VPT
LEH	NOBRA	ARANU GONGMA	08991922142	TASHI GYALPO	VPT
LEH	NOBRA	ARUNA YOKMA	08991922143	TSEWANG DORJE	VPT
LEH	NOBRA	NUNGSTED	08991922144	URGAIN RIGZIN	VPT
LEH	NOBRA	TONGSTED	08991922145	LOBZANG PALDAN	VPT
LEH	NOBRA	YARMA GOMBO	08991922146	THUKJI TOLDAN	VPT
LEH	NOBRA	SKURU	08991922147	SONAM TSOKING	VPT
LEH	NOBRA	KHALSAR	08991922148	PUNCHOK ANGCHOK	VPT
LEH	NOBRA	FANSTAN	08991922149	SONAM WANGIAL	VPT
LEH	NOBRA	TERCHAY	08991922150	TSERING YUNGDRUY	VPT
LEH	NOBRA	UDMUROO	08991922151	TSEWANG PUNCHOK	VPT
LEH	NOBRA	CHARASA	08991922152	TSEWANG NORBOO	VPT
LEH	NOBRA	THANG	08991922153	ABDUL QADIR	VPT
LEH	NOBRA	GARARI	08991922154	GHULAM MEHNDI	VPT
LEH	LEH	CHILLING	08991922156	357 RML,81 rcc	Coml
LEH	NYOMA	PHOTOLE	08991922157	344SPL/124RCC	Coml
LEH	NOBRA	TYAKSH	08991922158	SSW BATTALLION	Coml
LEH	NOBRA	PULLU2	08991922159	SSW BATTALLION	Coml
LEH	NOBRA	GOREPP	08991922160	SSH BATTALLION	Coml
LEH	NOBRA	TALWAR	08991922161	SSH BATTALLION	Coml
LEH	NOBRA	9 POST 14 MARATHA	08991922162	QRF BATTALLION	Coml
LEH	NOBRA	BAHADHUR BASE	08991922163	SG BATTALLION	Coml
LEH	NOBRA	REWARI	08991922164	SG BATTALLION	Coml
LEH	NOBRA	ZONGPAL	08991922165	SSH BATTALLION	Coml
LEH	NYOMA	PUNGOK	08991922166	RIGZEN TUNDUP	VPT
LEH	NYOMA	BUKSHADE	08991922167	GYALIK NAMGIAL	VPT
LEH	NYOMA	KHALSDO	08991922168	NAWANG CHOLDAN	VPT
LEH	NYOMA	RONGO	08991922169	DORJAY TSERING	VPT
LEH	LEH	TASGA	08991922170	TASHI NURBO	VPT
LEH	LEH	NIDAR	08991922171	NAMGIAL DORJAY	VPT
LEH	LEH	KHETLAY	08991922172	TASHI TUNDUP	VPT
LEH	NYOMA	ANKUNG	08991922173	RINCHEN ANGDU	VPT
LEH	NYOMA	SUNMDO	08991922174	SKARMA STOBGAIS	VPT
LEH	NYOMA	PHU	08991922175	URGAN TSEWANG	VPT
LEH	NYOMA	FUCKCHE	8991922176	16-GRENADIAR BN.C/O 56 APO	Coml
LEH	NYOMA	DEMCHOK	08991922177	16-GRENADIAR BN.C/O 56 APO	Coml
LEH	NYOMA	CHUMATHANG	8991922178	16-GRENADIAR BN.C/O 56 APO	Coml
LEH	NYOMA	LUMA	8991922179	16-GRENADIAR BN.C/O 56 APO	Coml
LEH	NOBRA	BASE CAMP-II	08991922180	CENTER GLACIER BATTALLION	Coml
LEH	NOBRA	BASE CAMP-III	08991922181	NORTH GLACIER BATTALLION	Coml
LEH	NOBRA	PACHATHANG	08991922182	H.G.HUSSAIN	VPT
LEH	NYOMA	HANLEY	08991922183	COMMANDANT 5TH BN.,ITBP	Coml
LEH	NYOMA	KORZOK	08991922184	COMMANDANT 5TH BN.	Coml

LEH	NYOMA	KOYAL	08991922185	COMMANDANT 5TH BN.	Coml
LEH	NYOMA	MGO	08991922186	COMMANDANT 16TH BN	Coml
LEH	NYOMA	SHYOK	08991922187	COMMANDANT 16TH BN	Coml
LEH	NYOMA	HENA	08991922188	COMMANDANT 16TH BN,ITBP	Coml
LEH	NYOMA	FEBRONG	08991922189	187 FCPL/ 51 RCC	Coml
LEH	NOBRA	ZULLU DESERT	08991922190	CENTER GLACIER BN.,army	Coml
LEH	NOBRA	JAWALA DESERT	08991922191	CENTER GLACIER BN.	Coml
LEH	NOBRA	BILLA BASE	08991922192	NORTH GLACIER BN.	Coml
LEH	NOBRA	BHIM BASE	08991922193	NORTH GLACIER BN.	Coml
LEH	NYOMA	AGHAM	08991922194	153 FCPL/ 51 RCC	Coml
LEH	NYOMA	DBO	08991922195	151 FCPL/ 51 RCC	Coml
LEH	NYOMA	TARA POST	08991922196	COMMANDANT 24 BN,ITBP	Coml
LEH	NYOMA	DUNGTI	08991922197	COMMANDANT 24 BN	Coml
LEH	NYOMA	LOMA	08991922198	COMMANDANT 24 BN	Coml
LEH	NYOMA	TRK JN	08991922199	COMMANDANT 16TH BN.	Coml
LEH	NYOMA	RELAY ITCHING	08991922201	PADMA DORJEY	VPT
LEH	NYOMA	TANGTSE	08991922202	114 INF BGD SIGNAL COMPANY	Coml
LEH	NYOMA	CHUSHUL	08991922203	114 INF BGD SIGNAL COMPANY	Coml
LEH	NYOMA	HOT SPRING	08991922204	114 INF BGD SIGNAL COMPANY	Coml
LEH	NYOMA	THAKUNG	08991922205	114 INF BGD SIGNAL COMPANY	Coml
LEH	NYOMA	TARA	08991922206	114 INF BGD SIGNAL COMPANY	Coml
LEH	NYOMA	ACHINATHANG LUNGBA	08991922207	RIGZEN DOLMA	VPT
LEH	LEH	IGOO INTSEY	08991922208	SKALKANG NAMGAIL	VPT
LEH	LEH	IGOO LANKOOR	08991922209	TSERING MUTUP	VPT
LEH	KARGIL	CHANNI GUND	08991922210	26 BATTALLION	Coml
LEH	KARGIL	KARGIL	08991922211	3943 BATTALLION INF BDG	Coml
LEH	NYOMA	CHOTI	08991922212	HQ 121 (1) INFANTRY BGD	Coml
LEH	NYOMA	RINGDOM GOMPA	08991922213	HQ 121 (1) INFANTRY BGD	Coml
LEH	NYOMA	SADDLE	08991922214	SADDLE KARGIL BATATALIAN	Coml
LEH	NYOMA	SILMO	08991922215	SILMO REGIMENT	Coml
LEH	KARGIL	CHORBAT LA	08991922216	Chorbatla Handang Brok Battalian	Coml
LEH	KARGIL	GURGURDO	08991922217	GURGURDO BATALIK BN HQ 192	Coml
LEH	KARGIL	CHUIICHANG	08991922218	CHUIICHANG BATALIK BN HQ 192	Coml
LEH	KARGIL	N S BRIDGE	08991922219	N S BRIDGE GANSOK BN	Coml
LEH	KARGIL	KHALSI	08991922220	KHALSI GANSOK BN	Coml
LEH	KARGIL	SHAMSHA	08991922221	SHAMSHA GANSOK BN	Coml
LEH	KARGIL	KHETI	08991922222	KHETI KAKSAR BATTALIAN	Coml
LEH	KARGIL	BAJRANG	08991922223	BAJRANG KAKSAR BATTALIAN	Coml
LEH	KARGIL	GT TOP	08991922224	MOGALPURA REGIMENT	Coml
LEH	KARGIL	FIRM BASE	08991922225	SANDO BATTALIAN	Coml
LEH	KARGIL	GYAN	08991922226	SANDO BATTALIAN	Coml
LEH	KARGIL	PIMPLE ADM BASE	08991922227	KILL BATTALION	Coml
LEH	KARGIL	KARGIL BATTLE SCHOOL	08991922228	KILL BATTALION	Coml
LEH	KARGIL	CP-3	08991922229	KILL BATTALION	Coml
LEH	KARGIL	PB-IV	08991922230	KILL BATTALION	Coml
LEH	NYOMA	TEGAZONG	08991922231	TSERINGTUNDUP	VPT

LEH	NYOMA	KHARNAK	08991922232	GINGMAT NAMGAIL	VPT
LEH	NYOMA	CHUMUR	08991922233	TASHI SONAM	VPT
LEH	NYOMA	SARCHU	08991922234	1519RMPL 111 RCC	Coml
LEH	NYOMA	PHUKECHEY	08991922235	TUNDUP SONAM	VPT
LEH	LEH	UPSHI	08991922236	SANGDUP ANGMO	VPT
LEH	NYOMA	RANGO	08991922237	COMMANDANT 5TH BN.	Coml
LEH	NYOMA	NYAKMIKLE	08991922238	COMMANDANT 5TH BN.	Coml
LEH	LEH	SASRELA TOP	08991922239	491 RMPL / 54 RCC	Coml
LEH	KARGIL	RANGDUM GONPA	08991922240	VEN TSERING TUNDUP	VPT
LEH	NYOMA	DURBUK	08991922241	RINCHEN SPALZANG	VPT
LEH	NYOMA	DBO/TR	08991922242	114 SIG COY C/O 56 APO	Coml
LEH	NYOMA	CHONGTASH	08991922243	114 SIG COY C/O 56 APO	Coml
LEH	NYOMA	PHOBRANG	08991922244	COMMANDANT 24TH BN	Coml
LEH	KARGIL	NYERAK	08991922245	651 CFC P1/126 RCC	Coml
LEH	KARGIL	RENU	08991922246	1517 RMPL / 126 RCC	Coml
LEH	NYOMA	CHUMUR	08991922247	5 LADDAKH SCOUT	Coml
LEH	LEH	UMLA (YOKMA PA)	08991922248	PADMA YANCHEN	VPT
LEH	NOYMA	K HILL	08991922249	COMMANDANT 24 BN ITBP CHOGLAMSAR	Coml
LEH	NOYMA	CHUSUL	08991922250	COMMANDANT 24 BN ITBP CHOGLAMSAR	Coml
LEH	LEH	BSNL I.Q. LEH	08991922251	BSNL CONTROL ROOM	Service
LEH	LEH	BSNL I.Q. LEH	08991922258	BSNL CONTROL ROOM	Service
LEH	LEH	KARKIT	08991922352	BARASH ALI	VPT
LEH	LEH	KARZU	08991922270	VVIP GUEST HOUSE KARZU	Service
LEH	LEH	LEH	08991922271	7C3 BRTE TIKSHEY	Coml
LEH	LEH	LEH	08991922272	16 BRTF	Coml
LEH	LEH	LEH	08991922273	HQ CE (P) HIMANK	Coml
LEH	ZANSKAR	REMALA KAISAM	08991922281	SONAM STOB DAN	VPT
LEH	ZANSKAR	TECHA KHASAR	08991922282	TSERING CHAMBA	VPT
LEH	ZANSKAR	ZANGLA	08991922283	HALZANG CHOTAK NAMGYAL	VPT
LEH	ZANSKAR	TUNGDI KMI	08991922284	TSERING ANGCHOK	VPT
LEH	ZANSKAR	TESTA	08991922285	JOLDEN TSERING	VPT
LEH	ZANSKAR	RURU MOONY	08991922286	TSERING SAMPEL	VPT
LEH	ZANSKAR	PIPCHA	08991922287	TASHI DAWA	VPT
LEH	ZANSKAR	CHAH	08991922288	STANZIN THINKAY	VPT
LEH	ZANSKAR	ICHER	08991922289	TSERING CHOBEL	Coml
LEH	ZANSKAR	KARGYAN	08991922290	NAMGIAL LAMBADAR	VPT
LEH	KARGIL	KUKSHOW	08991922292	SONAM YANGLOK	VPT
LEH	PADAM	HAMLING	08991922310	TSERING DORJAY	VPT
LEH	PADAM	TUNGRI	08991922311	TSERING ANGDU	VPT
LEH	PADAM	ATING	08991922312	TSERING SAMPEL	VPT
LEH	PADAM	RANTAQ SHAH	08991922313	DAWA TSERING	VPT
LEH	PADAM	AKSHU	08991922314	RIGZEN DORJAY	VPT
LEH	PADAM	ABRAM	08991922315	TASHI STOBGAIS	VPT
LEH	ZANSKAR	SHUNSHADI	08991922316	HALZANG ANGDUS	VPT
LEH	NYOMA	KORZOK	08991922317	Credible Engg Construction Project (P)	Coml

				Ltd	
LEH	NYOMA	PHOBRANG	08991922318	Credible Engg Construction Project (P) Ltd	Coml
LEH	LEH	TRISURU	08991922319	AGA SHYAD	VPT
LEH	LEH	PANIKAR	08991922320	MOHMAD IBRAHIM	VPT
LEH	KARGIL	NAMSUIRU	08991922321	AHMED HUSSAIN	VPT
LEH	KARGIL	THUL SPURSA	08991922322	MOHD ILYAS	VPT
LEH	KARGIL	TANGOL	08991922323	IMRAN ALI	VPT
LEH	KARGIL	YULJUK	08991922324	AKNON ABDUL	VPT
LEH	KARGIL	PURTIKCHE	08991922325	AKNONE HASSAIN	VPT
LEH	KARGIL	GYALING	08991922326	MOHD TOHA	VPT
LEH	KARGIL	CHOSKOR	08991922327	HAZI HADIR	VPT
LEH	KARGIL	KHANS/KHAWS	08991922328	MOHD ALI	VPT
LEH	KARGIL	SANGRON	08991922329	NASIR HUSSAIN	VPT
LEH	KARGIL	STAKPA	08991922330	MOHD HASSAIN	VPT
LEH	KARGIL	SAFI	08991922331	SONAM ANGCHUK	VPT
LEH	KARGIL	DARKET	08991922332	MOHD KAZIM	VPT
LEH	KARGIL	BARSO	08991922333	MOHD ALI	VPT
LEH	KARGIL	BARTO	08991922334	SAYED RAZA RAZAVI	VPT
LEH	KARGIL	ICHU	08991922335	AKHON IBRAHAM	VPT
LEH	KARGIL	LOCHUM	08991922336	MOHD HUSSAIN	VPT
LEH	KARGIL	KHANDI	08991922337	SAYED ANIN	VPT
LEH	KARGIL	NUNAMCHE	08991922338	MOHD FARAHIN	VPT
LEH	KARGIL	SHERGANDI	08991922339	GULAM MOHD	VPT
LEH	KARGIL	TACHA	08991922330	AKHON MOHD ABDULLA	VPT
LEH	KARGIL	TINGU	08991922331	MOHD HUSSAIN	VPT
LEH	KARGIL	CHULISKAMBO	08991922342	SHAHIL AHMAD	VPT
LEH	KARGIL	SAMSU SANDO	08991922343	MOHD ISSA	VPT
LEH	KARGIL	YALBOO	08991922344	SHABIR HUSSAIN	VPT
LEH	KARGIL	KHARBOO	08991922345	GULAM HUSSAIN	VPT
LEH	LEH	BAZGO ALCHI	08991922252	PROJET MANAGER	Coml
LEH	NUBRA	NORTH GLACIER-I	08991922253	102 INF BDE SIG COY	Coml
LEH	NUBRA	NORTH GLACIER-I	08991922254	102 INF BDE SIG COY	Coml
LEH	NUBRA	CENTRAL GLACIER-II	08991922255	102INF BDE SIG COY	Coml
LEH	NUBRA	CENTRAL GLACIER-II	08991922256	102 INF BDE SIG COY	Coml
LEH	NUBRA	SOUTH GLACIER-III	08991922257	102INF BDE SIG COY	Coml
LEH	NUBRA	SOUTH GLACIER-III	08991922259	102 INF BDE SIG COY	Coml
LEH	LEH	BUDHKHARBU	08991922349	8-Mtce DIV SIG REGT	Coml
LEH	KARGIL	KAKSAR	08991922353	AZAD AHMAD	VPT
LEH	KARGIL	THONGROS	08991922364	MOHD IBRAHIM	VPT

List of JCB owners

S. No	Name	Village	Contact No
1	Sh. Abas Abidi	Thiksay	9419176413
2	Tsering Angu	Khaltsi	
3	Sangey	Shey	9622965044
4	T. Angchok (Tashakpa)		9419870039
5	Majed	Saboo	94191379811
6	Lobzang Tandar	Chuchot	8803968385
7	Sonam Dorjey	Tarchit	9419178835
8	Manzoor Ahmad	Thiksay	9622981164
9	Nawang	Saboo	9419243458
10	Sangey Poro	Shey	9419243532
11	Parvez Ahamad	Thiksay	9906997000
12	Motup	Taroo	9622959644
13	Rigzin	Sasoma	9906990064
14	T. Norboo	Liker	9419658401
15	Sonam	Saboo	9906978202
16	Mohd Shafi	Thiksay	9419347335
17	Sonam Dorjay	Spituk	94192690151
18	T. Gyatso	Thiksay	9906997157
19	Mohd Ramzan	Phyang	9622957279
20	T. Wangail	Lamayuru	9622969396
21	T. Gyalson	Nemoo	9419843370
22	Dorjay		9622951670
23	Yangjor (Olthang)		9622977412
24	Yurgail	Shey	9906231007
25	Motup Rindi	Shey	9419347673
26	Ishey Phuntsog	Nemoo	9906974424
27	Nawang	Taroo	9419178069
28	T. Dorjey	Basgo	9906990053
29	S. Phuntsog	Skurbuchan	9906997246
30	Thupstan	Nemoo	9622980533
31	Dorjay	Hanu	

32	Lobzang	Liker	9419178048
33	Stanzin Gyatso	Taru	9419370751
34	Shakil Ahmad	Leh	9906987676
35	Nesar Ahmad	Leh	9906991888
36	Tsewang Tundup	Leh	9622962344
37	Zakir Hussain		9419179617
38	Angchok	Romchey	9419178451
39	T. Angchok	Nemoo	9419178524
40	Stanzin Spalbar	Zanskar	9622956585
41	Chemat	Changthang	9419189324
42	Thiksay Gonpa	Thiksay	9419372622
43	Salim Javid	Thiksay	9906988700
44	Gh: Nabi	Thiksay	9419178700
45	Stanzin Spalbar	Shenam Leh	9697388188
46	Mumtaz Ahmad	Thiksay	9906995010
47	Tsewang Namgyal	Basgo	9419177410
48	Rigzin Tsetan	Chuchot	9622961878
49	Tsewang Thu	Leh	
50	Gyalson	Taru	
51	Thinless Otzer	Chuchot	9906979571
52	Konchok Tsetan	Tangtse	9419178253
53	Tundup Dorjey	Stok	9622957048
54	Tsering Phuntsog	Basgo	9622992975
55	Mohd Shafi Khan	Leh	9906997680
56	Padma Thinless	Khaltsi	9622962103
57	Phuntsong Tundup	Nimoo	9419178782
58	Angchok	Saspol	9419178493
59	Tsetan	Saspol	
60	Sonam Dorjey	Zangskar	9622956585
61	Padma Tsewang	Skalzangling	9622954381
62	Angchok Chonjor	Nimoo	9622989574
63	Stanzin Sonam	Likeer	9906955170
64	Nawang Thinless	Domkhar	9906991323
65	Rinchen Gangzur	Nimoo	

66	Tsewang Dorjey	Hanu	9622988868
67	Tsering Samphel	Chemday	9906997779
68	Tsewang Nurboo	Likeer	9419658401
69	Rigzin Angdu	Likeer	9419242666
70	Mutup Dorjey	Alchi	9419372628
71	Mohd Afzal	Nubra	9419819296
72	Tsering Mutup	Shey	9419347673
73	Tashi Padma	Sakti	
74	Jigmat Phurbu (Jora)		
75	Jan	Chuchot	
76	Salim Khan	Leh	
77	Tsering Samphel	Wanla	
78	Mohd Afzal	Leh	
79	Stanzin Wangboo	Leh	
80	Jigmat Namgail	Changa	
81	Stanzin Yountan	Tia	
82	Rinchen Namgail	Tiri	
83	Sonam Stobgais	Temisgam	
84	Tsering Nurboo	Basgo	
85	Thupstan Rinchen	Nimoo	
86	Dorjey Namgail	Leh	
87	Padma Tsewang	Choglamsar	
88	Mingur	Gonpa	
89	Lama Lobzang (Chotak)		