

Draft Bumthang Dzongkhag Disaster Management & Contingency Plan 2023

Dzongkhag Administration, Bumthang

ROYAL GOVERNMENT OF BHUTAN

Executive Summary

As mandated by Section 77 of the Disaster Management Act of Bhutan 2013, the Dzongkhag Disaster Management Committee is tasked to develop Disaster Management and Contingency plans, in close consultation with the communities.

The plan is prepared through conduct of Hazard, Vulnerability and Capacity Assessment (HVCA) of 4 gewogs and 1 throm in consultation with the Gups, Gewog Administrative Officer (GAOs), Tshogpas, discussion with Dzongkhag Administration officials; data collation and analysis; and finally a simulation on standard procedures for response followed by endorsement from the Dzongkhag Disaster Management Committee (DDMC).

The Dzongkhag Disaster Management Plan comprises of hazard, vulnerability and capacity profile for 4 gewogs and 1 throm. The plan also outlines priority disaster risk reduction, awareness raising and capacity building activities and spells out the standard procedures for response. An implementation and monitoring process for the plan is also included.

With the changing risk patterns and frequency of disasters, formulation of Dzongkhag specific disaster management plan is an important strategy to strengthen local level disaster management systems and systematically reduce disaster risks.

There are no separate budgets to implement the Disaster Management Plan. Therefore, it serves as a guide for Dzongkhag administration and sectors to ensure mainstreaming and integration of disaster risk management into their annual and five-year development plans. It is required that every stakeholder and relevant National Disaster Management institutions and agencies take ownership and fulfill their own roles and responsibilities to make this Dzongkhaga disaster resilient and safe place.

ACRONYMS

CBDRM	Community Based Disaster Risk Management				
DDM	Department of Disaster Management				
DM Act, 2013	Disaster Management Act of Bhutan, 2013				
DM	Disaster Management				
DDMC	Dzongkhag Disaster Management Committee				
DT	DzongkhagTshogdu				
GNH	Gross National Happiness				
GT	GewogTshogde				
HVCA	Hazard, Vulnerability and Capacity Assessment				
NASART	National Search and Rescue Team				
NDMA	National Disaster Management Authority				
RBP	Royal Bhutan Police				
SDMP	School Disaster Management Plan				

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Scope& Objectives of the BumthangDzongkhag Disaster Management and Contingency Plan

The development of Disaster Management and Contingency Plan for Bumthang Dzongkhag is mandated by the Disaster Management Act of Bhutan 2013. The plan was endorsed by the Dzongkhag Disaster Management Committee (DDMC) on and will serve as a document for reference by all relevant stakeholders and Sectors for implementation of prioritized disaster risk reduction and preparedness activities and guide the Dzongkhag in any response and relief operations.

The objectives of the Dzongkhag Disaster Management and Contingency Plan are:

- To ensure mainstreaming and facilitation for implementation of disaster risk reduction and preparedness activities in Dzongkhag;
- To ensure required capacities are developed for risk reduction, mitigation, preparedness and response;
- To increase awareness on disaster risks, risk reduction and preparedness measures in the Dzongkhag;
- To establish a coordination mechanism for emergency response and relief operations.
- To ensure safety of community, reduce loss to property; protect critical infrastructure, environment and continuity of essential services.

Note: The Dzongkhag Disaster Management and Contingency plan will be updated on a yearly basis.

Chapter 1: Overview of BumthangDzongkhag

Geography

Bumthang Dzongkhag is located in the Northern part of the country bordered by LhuntseDzongkhag in the East, Trongsa and WangduePhodrangDzongkhag to the West, ZhemgangDzongkhag to the South and the Tibet Autonomous region of China to the North. It has an approximate area of 1879.5 sq. km with an elevations ranging from 2400 to 6000m above sea level. Approximately 59.3% of its total land area is under forest cover. It is administratively supported by four Gewogs namely Chhoekhor, Chumey, Tang and Ura. It has 1900 households and 104 villages. The total population of the Dzongkhag is 17820(PHCB, 2017). A favorable terrain coupled with excellent motor road access has brought about great socio-economic benefits to the people of Bumthang.

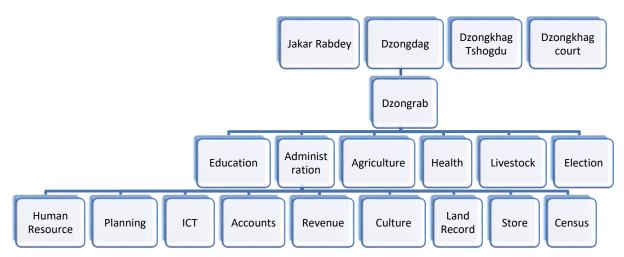
It experiences cold climatic conditions with warm summer and cold winters. Income from potato, livestock farms and the ever increasing tourists are gradually changing the economic status of the people of Bumthang. Recent legalization of sale of cordyceps has further added to rural income. Sale of Masutake and Medicinal plants have also further enhanced purchasing power of people of upper Chokhor and Ura Geog.

Dzongkhag Facts and Figures

Dzongkhag Name Bumthang Area 2667.7sq.km, Forest Cover 52.06%, Number of Geogs 4 Number of villages 104 Number of Households 3770. **PUBLIC REPRESENTATIVES** Number of Gups 4, Number of Mangmis 4, Number of Tshogpas 20, Number of DT Members 9, Number of GT Members 29, **POPULATION-**(PHCB, 2017) Total population 17820, Male 9396, Female 8424, **AGRICULTURE-**Agriculture Ext. Center 4, **Forestry-**Ext. Center 4, **Livestock-**Ext. Center 4, Veterinary Hospital 1, National Park 1, Research center 1, **EDUCATION-**Community school 11, Lower Secondary school 1, Middle Secondary school 3. Higher Secondary school 2, ERC 2, Non Formal Education center 12, **HEALTH-**Number of Hospital 1, Number of Primary Healthcare Center (PHC) 5, Number of Out-Reach Clinics 12, Number of Doctors 6, Number of ambulance 3, and Number of Post Office 1.

Social and Administrative Profile

Dzongkhag is administratively supported by 4 Gewogs namely, Chumey, Tang, Choekhor, and Ura



Organogram of Dzongkhag Administration

 Table 1 – Key Demographics

0		No. of Po		Population		Health Facilities		Schools						
		(Sq. Km.)	House holds	Male	Female	Total	Hospi tal	BHU	ORC	HS S	MSS	LS S	PS	NF E
1	Chumey	401.1	709	1937	1637	3588	0	1	2	1	0	0	3	3
2	Choekh or	1530.4	2250	5423	4767	10190	1	2	3	1	0	1	5	6
3	Tang	520.0	432	1165	1153	2318	0	1	4	1	0	0	2	4
4	Ura	265.6	379	871	853	1724	0	1	3	1	0	0	2	0

BHU – Basic Health Unit; ORC – Out Reach Clinic; HSS – Higher Secondary School; MSS – Middle Secondary School; LSS – Lower Secondary School; PS – Primary School; ECR – Extended Classroom

Cultural Properties, bridges, Alternative routes and Farm shops in the Dzongkhag

					No of
			No of	Alternative routes to	Farm
Gewogs	Total no of Cultural	Properties	Bridges	the area	shops
	Lhakhang Chorten				
				Royal Heritage trek route	
				(Chumey-	
				Kungarabten),Tunglaya	
				path (Chumey -	
				Trongsa), Yontong la	
				path(Trongsa), Kekila	
Chumey	28	49		route (Jakar)	1
				Tongkhang lam (Gewog-	
				jakar), Kharsa	
Choekhor	30	81		lam(Kharsa – Choekor	0

Dzong				
Jakar				
Throm	1 mani dungkhor	1	Dawathang zam,	
Chamkhar				
Ura	14	71	(Ura- Mongar)	1
			Kurtoe), Wangthang la	
			Tang),Singmi la (Ura-	
			Zhangbey la (Ura-	
Tang	23	108	Ura)	1
			Zhangbey la (Tang to	
			(Tang to Kurtoe),	
			Chamkhar),Rudung la	
			(Tang -	
			Choekor toe), Badey la	
			Fai fai lam(Tang-	
			toe)	

Chapter 2: Dzongkhag Disaster Management System

2.1 DzongkhagDisaster Management Committee (DDMC)

Bumthang Dzongkhag Disaster Management Committee (DDMC) is constituted as below in line with the provisions of the DM Act of Bhutan, 2013:

Sl.	Members	Designation	Organization	Remarks
No.				
1	Ratna B Gurung	Dzongda	DzongkhagAdm	Chairperson
2	Jampel	Chairperson of	DzongkhagTshogdu	Member
		DzongkhagTshogdu	Secretariat /	
			ChumeyGewog	
3	Sonam Gyeltshen	Offtg. Dzongkhag	DzongkhagAdm	Member
		Welfare Officer		

4	Sangla	Gup	Choekor Gewog	Member
5	Khandu Wangchuk	Gup	Ura Gewog	Member
6	Ugyen Nima	Gup	Tang Gewog	Member
7	Ugen Sangay	ThromdeNgotshap	Chamkhar Throm	Member
8	RinzinWangmo	DDMO	Bumthang Dzongkhag	Member
				Secretary
9	Jamyang Jamphel	SP, RBP	Bumthang Dzongkhag	Member

Other Stakeholders that may be co-opted as the members of DDMC are as follows:

- 1. RBA
- 2. BoBL
- 3. RICBL
- 4. Bhutan Telecom
- 5. Bhutan Power Corporation
- 6. BDBL
- 7. RSTA
- 8. Bhutan Post
- 9. Divisional Forest Office
- 10. Civil Aviation Office
- 11. BIL
- 12. BPC

On the expiry of the term/ resignation of the Dzongdag (Chair), the Dzongrab (Vice-Chair) will take over the functions of the chair. In case of the expiry of term/ resignation of Gup, the Chair of the DDMC may temporarily designate an official from the local government as a member of the DDMC to serve until the vacancy is duly filled.

2.2Functions of DDMC

The DDMC shall be responsible for coordinating and managing all disaster management operations in the Dzongkhag under the direction and supervision of the National Disaster Management Authority (NDMA).

Detailed functions of the DDMC are mentioned in the clause 31 of DM Act 2013.

In the case of a disaster, the Chairperson of the DDMC may exercise all or any of the functions of the DDMC, subject to ex post facto ratification of the Committee.

The DDMC is mandated to meet at least twice a year and to frame rules and regulations concerning the conduct of its meeting.

2.3 Functions of Chairperson

The Detailed functions of the Chairperson of DDMC are mentioned in the DM Act-2013 section 37 and 38.

Some of the important functions of the chairperson are as follows:

- 1. Without prejudice to the generality of the provision contained in section 37 of this Act, the Chairperson of the DDMC shall:
 - a) Regularly review and assess the effectiveness of DM Plan
 - b) Ensure decision and policy formulated by the DDMC is implemented
 - c) Ensure that disaster risk reduction and disaster management activities are consistent with Disaster Management Strategic Framework.
 - d) Provide prompt information on a disaster or an impending disaster situation to the DDM
 - e) Provide regular updates and detailed reports on a disaster event to the DDM upon completion of filed assessment of the situation
 - f) Manage response and relief operation in accordance with the directives issued by the national Disaster Management authority; and
 - g) Coordinate delivery of services and resources to disaster affected communities

Chapter 3: Disaster Risk Profile of Bumthang Dzongkhag (HVCA)

Bumthang Dzongkhag is vulnerable to various natural and man-made hazards. Repeated fire incidents in the Chamkhar town have come as a stark reminder of how vulnerable the communities in the Dzongkhag are. Like other Dzongkhags in country, Bumthang Dzongkhag has faced the brunt of two major earthquakes, seasonal windstorm which destroys houses and crops, with serious implication on the livelihood of the people.

The assessment of the disaster risk of the dzongkhag for this plan is done by looking at the hazard, vulnerability and capacities at the dzongkhag as well as individual gewogs. The HVCA is conducted by the Gups, GAOs, Mangmis, Tshogpas and DDMO. Finally the gewog's hazard is prioritized for action planning using the probability and impact matrix.

3.1 ChumeyGewog

3.1.1 Hazard Assessment

			When it	Probability	History of	
S/N	Hazard	Secondary	could	of	Past	
		Hazard	occur	Occurrence	Disaster	Impact
1	Structural fire	Forest Fire	Dec-	High	1992	Property loss and
			Mar			livelihood
	Wind Storm	Structural Fire	Dec-	High	2017	Damage to Roofs
2			May			
3	Earthquake	Structural fire	Unpredi	High	2009, 2011,	Damages to houses
			ctable		2015	and cultural properties
	Forest Fire	Structural Fire	Dry	Medium	2015 & 2017	Loss of forest cover
4			season			

5	Hailstone	Flood	Unpredi	Low	2014	Crop damage
			ctable			
6	Flood	Landslides	Summer	Low	2006	Damage to farm roads
			months			

3.1.2 Vulnerability Assessment

				How will they be
S/N	Hazard	Element at risk	Why they are at risk	affected
1	Structural fire	Private and public properties in the gewog including lhakhangs and chortens	Extensive use of Bhukhari,poor electrification.No proper saves for butter	Propertyand Live loss
			lamps	
2	Wind storm	Structure (Whole gewog), Human(Special need) and crops	Traditional structures with no proper anchorage system.	Roofing will be blown off, structures collapsed, lives lost/injury
3	Earthquake	Traditional houses, all the people in the gewog along with the livestock	 Traditional houses are not earthquake proof. Livestocks are at risk in case there is a slide and collapse structure 	Structure collapse, earthquake triggered landslides and floods will have big loss on lives and properties
4	Forest fire	Forest cover, livestock, cultural, public and private properties	Careless attitude of the people	Forest fires will burn the gewog's forest cover and will spread to private and public properties

Hailstones	Crops	Crops cannot resist	Crops will be damaged
		hailstones	during flowering season
			and will affect the yield
Flood	Public and private properties,	Most agricultural lands are	Flood will wash away all
	agricultural land, crops	located near streams which	the elements located in
		can flood during summer	the vulnerable areas
		Flood Public and private properties,	Flood Public and private properties, agricultural land, crops Most agricultural lands are located near streams which

3.1.3 Capacity Assessment

S/N			Economic	Social/Institutional	Environment
	Hazard	Physical capacity	capacity	capacity	capacity
1	Structural fires	School football ground and ground for evacuation	House Insurance, Kidu, Life and house insurance.	RBP, Gewog Administration, BHU, Community Forest group, Schools,	River and stream
2	Wind Storm	Most houses are one storied	House Insurance, Kidu, Life insurance.	DDMC, Gewog Administration, BHU, Community Forest group, Schools,	Good forest cover in the gewog
4	Earthquake	Most of the HH are one storied ekra type house, school grounds for evacuation	House Insurance, Kidu, Life insurance.	DDMC, Gewog Administration, BHU, Community Forest, Schools, Village welfare group, DoR, RBP	Good water source

5	Forest Fire		Community Forest	Community Forest	River and streams
			Group	Group, RBP, Gewog	nearby
				Administration	
6	Flood	School grounds for	Insurance	Community Forest	Good water source
		evacuation		Group, RBP, Gewog	and forest cover
				Administration,	
				Desuups	

3.1.4 Probability and impact matrix

Very			Heavy rainfall,		
probable			Earthquake		
Probable					
Less					
probable		Windstorm		Structure Fire	
Improbable					
Impact	Unimportant	Limited	Serious	Very serious	Catastrophic

3.2 ChoekhorGewog

3.2.1 Hazard Assessment

S/N	Hazard	Secondary Hazard	When it could occur	Probabilit y of occurrence	History of past disaster	Impact
1	Flash Flood	Landslide, soil erosion	Monsoon Season	High	1999&2009	Damages to land, crops and roads
2	Earthquake	Structure fire/forest	Unpredictab le	High	2009 & 2011	1. Major damages to households and

		fire/landslide				cultural properties
	Windstorm	Forest	Dry season	High	2011 & 2013	1. Loss of crops
		structural fire	(Dec-			2. damages on roofs
3			March)			
	Hailstones	Flood	Dry season	High	2017	Crop damage
			-			

3.2.2 Vulnerability Assessment

				How will they be
S/N	Hazard	Element at Risk	Why are they at Risk	affected
	Flash Flood	Agriculture land,	Location of elements in	Landslides triggered by
		house, livestock,	the vulnerable area	flash floods will damage
		human lives		land, crops and
1				properties
	XX7* 1 /			XX7' 1 / '11 1
	Windstorm	Roofs of houses in	Location of the houses &	Windstorms will damage
2		the village and	their conditions not	the roofs, damage crops
Ζ		other cultural	maintained	and uproot trees
		properties		
	Landslide	Agricultural land,	Location of elements at	Landslides can damage
3		houses, bridges and	risk in the vulnerable	the agricultural land and
3		farm roads	area	also damage the public
				and private structures

4	Forest fire	Community, government forest lands, properties	Careless attitude of the people	-Structural losses -Injuries & casualties -Vegetation loss -Habitat losses

3.2.3 Capacity Assessment

S/N	Hazard	Physical Capacity	Economic Capacity	Social/Institutional Capacity
1	Flash Flood	Practices of tree plantations, retention wall, open ground for evacuation	Insurance	Capacity building exercise by relevant agencies
2	Windstorm	Available open ground for evacuation, most houses are one storied	Insurance	Relief support from Dzongkhag administration, and response from RBP and Desuups

	Landslides	Open spaces available	-Life & House	- Kidu from the Dzongkhag
		for evacuation	insurance	
				- Dzongkhag Disaster
2				Management team
				-Desuups volunteers
				-Gewog extension officer &
				GAOs trained on SAR
4	Forest fire	-Open available spaces	-Life & house insurance	-Dzongkhag Relief team -Desuups volunteers -Gewog staffs trained on SAR - UWIC, RNR research office, Park officials

Very Probable			Landslides	Earthquake
Probable			Windstorm	
Less	F	Forest		
Probable	1	Fire		
Improbable				

Impact	Unimportant	Limited	Serious	Very Serious	Catastrophic
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3.2.4 Probability and impact matrix

3.3 TangGewog

3.3.1 Hazard Assessment

S/N	Hazard	Secondary Hazard	When it could occur	Probability of occurrence	History of Past Disaster	Impact
1	Flash flood	Landslide	Monsoon season	High	2009	Damage to agricultural land and farm road
2	Windstorm	Structural Fire	In the month of March, April, July and August	High	2016	Blown away roofing
3	Landslides		Monsoon season	High		Damage to crops and farm roads
4	Forest Fire	Structural fire	From January to March	High	2015	Damage to forest cover
5	Human wild life conflict			Medium	Annually	Damage to crops.

3.3.2 Vulnerability Assessment

S/N	Hazard	Element at Risk	Why they are at risk	How will they be affected
1	Flood	Houses, bridges, livestock and imp. Govt. properties	No flood protection wall, location of communities near the river banks	Loss of scare agricultural land, lives loss, injuries , villages will be cut off
2	Windstorm	-Houses , Crops, cultural properties and imp public infrastructure	-Located in windy area, no- resilient house roofs	roofs of houses will be blown away and falling trees could disrupt electricity lines
3	Earthquake	Private and govt. properties	Most houses are old and not earthquake resilient	Quaking could damage and destroy homes and properties
4	Structural fire	Private homes , properties and govt. properties	Poor electrification, extensive use of Bhukhari, lack of butter lamp case, carelessness of people	Fire will destroy all the properties and disrupt lives
5	Hailstorm	Cash crops and food crops	They are main staple and cash crops	When they are tender or during flowering & fruiting time is very vulnerable
6	Human wild life conflict	Crops	Lack of electric fencing	Crop loss which will affect the food security

3.3.3 Capacity Assessment

S/N	Hazard	Physical Capacity	Economic Capacity	Social/Institutional
				Capacity

1	Earthquake	Access to road, mobile network at Gewog level, Mobile network and Electricity, school ground, ORC, School ground for	Every HH are covered under rural housing insurance.	Community vitality, good income from cordeycep collection, Desuup civil servants, relief and response support from
		evacuation.		Dzongkhag
2	Windstorm	Access to road, mobile network, electricity, open ground	Every HH are covered under rural housing insurance.	Relief support from Dzongkhag
3	Structural fire	Access to road, mobile network, electricity	Every HH are covered under rural housing insurance.	Support from Dzongkhag, community vitality
5	Forest Fire		House insurance and life insurance	Gewog Forest Office, Park office
7	Hailstorm			Community support

3.3.4Probability and impact matrix

Very Probable			Earthquake,		
			Windstorm,		
			Landslides		
Probable		Forest Fire	Structural fire		
Less Probable		Outbreak of Poultry disease	Hailstorm		
Improbable					
Impact	Unimportant	Limited	Serious	Very Serious	Catastrophic

3.4UraGewog

3.4.1 Hazard Assessment

S/N				Probabilit y of	History of	
5/1		Secondary	When it	Occurren	Past	
	Hazard	Hazard	could occur	ce	Disaster	Impact
	Structural Fire	forest fire	Winter	Medium	2015	damages of
1			season			Properties
	Forest fire	Structural fire	Dry season	Medium	2015	Crop damage, risks
2						to human life and
						properties
	Earthquake	Fire	Unpredictable	High	2009 &	Damage to houses
3					2015	
	Windstorm	Forest fire and	unpredictable	March-	2012	Damage to roofs and
4		structural fire		May		crops
5	Human wildlife		Annually	High	Yearly	Crop damage
	conflict					

3.4.2 Vulnerability Assessment

S/N				How will they be
	Hazard	Element at Risk	Why they are at risk	affected
	Structural	Houses, people, domestic	Irresponsibility of people	Loss of properties like
	Fire	animals and cultural	while using gas, bhukhari,	houses, infrastructures, loss
1		properties	butter lamp and also poor	of human & animals live

			electrification	
2	Forest Fire	Houses, people, domestic animals, crops damage, and vegetation loss	Dry winter season and careless behavior of some people	Loss of houses, cultural properties, forest cover, water source with wildlife
3	Windstorm	Roof damage of private and public properties	Roof not anchored, old structures	Hampers the daily lives of the people.
4	Human wild life conflict	Houses, people, domestic animals, crops	improper fencing	Crops loss , loss of human & animals lives.
5	Earthquake	Houses, infrastructure, people, domestic animals, road blocks at Gewog	Old structures, houses built with traditional techniques.	Loss of properties like houses, infrastructures, loss of human & animals live, electric shocks, food shortage, transportation & communication disruption

3.4.3 Capacity Assessment

S/N	Hazard	Physical	Economic	Social/Institutional
		Capacity	Capacity	Capacity
1	Structural Fire	Open ground available	Rural house and life insurance	Community support, support from the Dzongkhag
2	Forest Fire		Rural house & life Insurance	Thrumshingla park office, support from the Dzongkhag
3	Windstorm	Most of HHs has CGI-sheet. Mobile & road connectivity.	Rural house & life Insurance	Thrumshingla park office, support from the Dzongkhag, Desuups

4	Hum	an	Solar fencing	 Thrumshingla park office,
	wild	life		support from the Dzongkhag,
	conf	lict		

3.4.4 Probability and impact matrix

		Probability of Events						
Very				Windstorm	Landslide,			
Probable					Earthquake			
Probable			Hailstorm					
			Structure fire,	Forest fire				
			lightening &					
Less			thunderstorm,					
Probable			pest & diseases					
Improbable								
Impact	Unimportant	Limited	Serious	Very Serious	Catastrophic			

3.5ChamkharThrom

3.5.1 Hazard Assessment

S/N	Hazard	Secondary	When it could	Probability	Disaster	Impact
		Hazard	occur	of	History	
				occurrence		
	Structure Fire	Forest Fire	Mostly during	High	2016,	4 devastating fires have
			winter months		2010	damaged most shops and
1						settlement in the town.

	Flash Flood	Landslide,	Monsoon	Medium	2009
2		erosions,	season		cyclone
		fire			aila
					floods
3	Earthquake	Fire,	Unpredictable	High	2009
		landslide			2012
					2015
4	Forest Fire	forest fire	Unpredictable	Medium	2011
					2014

3.5.2 Vulnerability Assessment

S/N	Hazard	Element at Risk	Why they are at Risk	How will they be
				affected
1	Structural	Shops, public and	Careless attitude of the	Fire will destroy the
	Fire	government infrastructures,	elements at risk, extensive	livelihoods of many
		goods and properties	use of wood, use of cheap	people and render them
			electrical appliances	homeless
2	Earthquake	Building, Houses, bridges,	Bhutan is located in highly	Property loss, damage,
		farm roads, schools,	seismic zone. Most of the	loss of livelihood, heavy
		Hospital, Office, Offices,	houses are non-disaster	reconstruction costs
		people	resilient structures.	
3	Windstorm	Roofs of all the houses and	Winters and springs in the	Roofs of the shops and
		shops in the town	town are quite windy	houses will be damaged

3.5.3 Capacity Assessment

		Physical Capacity	Economic	Social/Institutional Capacity
S/N	Hazard		Capacity	

1	Structural Fire	Open ground for	Insurance for	Relief support from Dzongkhag and
		evacuation in the	homes and	Kidu office, RBP, Desuups and other
		town	properties,	volunteers, Airport
			diverse source of	
			income	
2	Flood	Available high	house and life	Relief support from Dzongkhag and
		elevated area	insurance	Kidu office, RBP, Desuups and other
				volunteers. Awareness Program by
				relevant area, Airport
3	Windstorm		House and Life	Relief support from Dzongkhag and
			Insurance	Kidu office, RBP, Desuups and other
				volunteers

3.5.4 Probability and impact matrix

Very				Windstorm	Earthquake
Probable					
Probable		Structure fire	Landslides		
Less			Pests &		
Probable			Diseases		
Improbable					
Impact	Unimportant	Limited	Serious	Very Serious	Catastrophic

Capacity Assessment at the Dzongkhag level

S/N			Economic	Social/Institutional	Environment
	Hazard	Physical capacity	capacity	capacity	capacity
1	All	2 fire brigades, one	House Insurance,	DDMC, Hospital,	Water source,
		water tanker,	Royal Kidu, Life	FCB, Farmers group,	Timber,
		55Dessups, 25 SAR	insurance.	DzongkhagDratshang,	
		teams, 42 police			
		personnel, 5			
		ambulance,			

Chapter 4: Disaster Management Action Plan (2023 – 20228)

This chapter details the action plan for Bumthang to raise awareness, reduce risk, and enhance preparedness and resilience for five years starting from 2017 to 2021 for the hazards which were prioritized.

Priority Area	Key Activities	Target	Nodal Agency	Supporting agencies	Timeline	Budget estimate (Nu. in M)
DDMC Meetings as per the DM Act of Bhutan 2013	Conduct DDMC meetings as per the DM act of Bhutan 2013	DDMC	DDMO	DDMC	Annually	0.50
Review Dzongkhag DMCP	To review the DM and Contingency plan, assess implementation of the activities and dissemination of plan)	DDMC	DDMO	DDMC	Annually	0.50

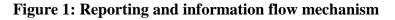
Develop Gewog Contingency Plan	As per the DDM Act 2013, each gewog can have their own gewog ICS and develop their own Gewog level contingency plan for any emergency.	4 Gewogs	DDMO/GAO	Gewog's Disaster Management Committee	2024-2025	0.50
Basic SAR Training front liners	To develop and enhance capacity of Dzongkhag Search and Rescue (SAR) Team to facilitate effective response operations during disasters and emergencies.	Dzongkhag SAR Team and other relevant officials	DDMO/DLG DM	Dzongkhag SAR Team and other relevant officials	2024, 2026 & 2029	1.5
Construct DEOC	As mandate by DDM Act 2013, every Dzongkhag must have a Dzongkhag Disaster Emergency Operation Center (DEOC) for emergency.	DEOC	DDMC/DLG DM	DEOC	2025-2027	56
Procure furniture for DEOC	To equip the DEOC with required equipment and furniture	DEOC	DDMO/DDM C	DEOC	2027-2028	1.0

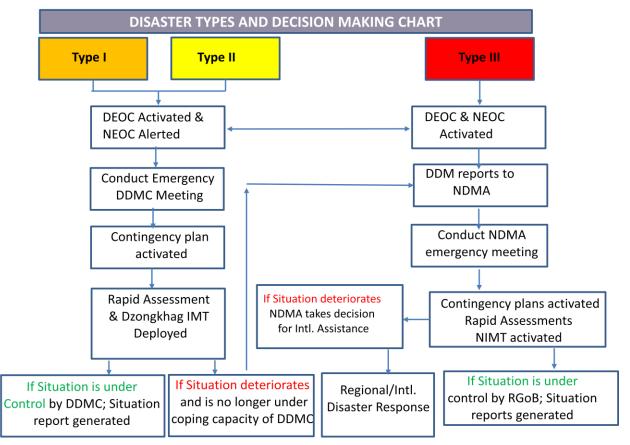
Procurement	Need base procurement of	Dzongkhag	Dzongkhag	DDMC/DLGD	Annually	2.0
of Disaster	disaster equipment during the	Administrati		М		
Equipment on	emergency.	on				
need basis.						

Chapter 5: Dzongkhag Contingency Plan

This chapter details the contingency plan of Bumthang Dzongkhag including the response/ coordination structure and standard operating procedures.

The chart below shows the general decision making, information flow and reporting mechanism during disaster type I, II and III.





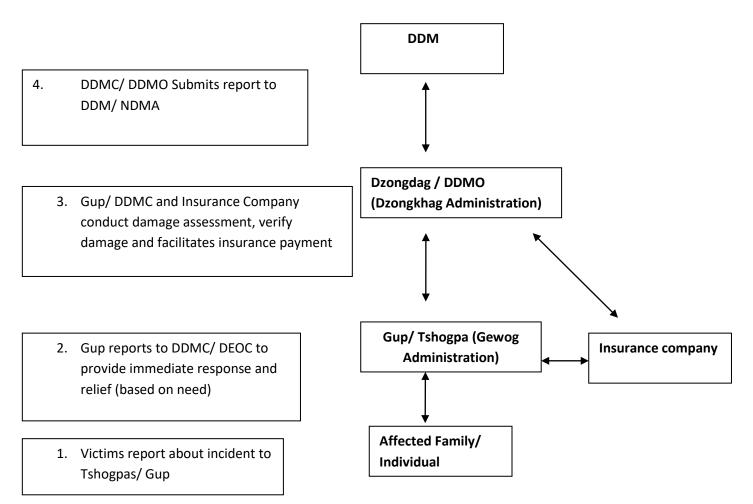
5.1 Standard Procedures for Response

5.2.1 Standard Operating Procedure for Isolated local incidents

Isolated Local Incident - An isolated local incident is an incident which does not have a widespread effect on people and property and can be managed within the normal operations of the agencies concerned, and such incident shall not require emergency procurement and funding

For isolated local incidents, such as fire affecting single house or windstorm blowing off roof of one structure in a locality, and cases which do not qualify under Disaster Types I-III of the Disaster Management Act of Bhutan 2013, the following standard procedure shall be followed.

Figure 2 – Standard procedure for isolated local incidents

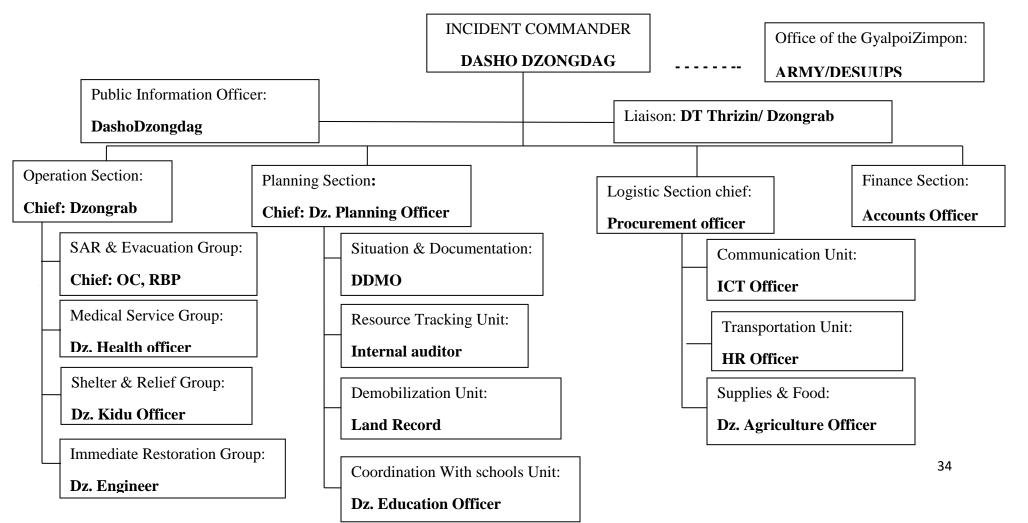


5.2.2 Coordination and response structure for various disaster types

As per the DM Act of Bhutan 2013 and the DM rules and regulations standard procedures for response at the dzongkhag level for different Disaster Types will be as follows:

Incident Response Management team at DzongkhagLevel:

Note: Lead role base on relevancy. Eg. Agriculture related-DAO, Livestock-DLO etc...



Incident Response Management team at GeogLevel: Incident Commander: Gup Public information /Liaison: Gup Operation / Planning Section: Logistics/Finance section: **Gewog Administrative Officer** Accountant SAR and Evacuation Group: **RBP** (Where available) or Mangmi Medical Services Group: HA Coordination with schools: Livestock Ext. Staff Relief and shelter Group: Agriculture extension staff

Note: Identify number of teams and team members in discussion with relevant stakeholders

Flow of information and communication- Team members to team leaders, team leaders to Section Chiefs, Section Chiefs to IC, IC to Responsible Officer

Roles and Responsibilities of the IMT:

1. Responsible Officer

- Overall management of the incident/ disaster
- ✤ Gives policy direction

2. IC:

- ♦ Will be responsible for all aspects of an emergency response
- Develop incident objectives and manage incident operations
- ✤ Application of the resources and responsibility for all persons involved

Concerned Person:

3. Public Information Officer/ Liaison Officer:

Communicate and share important incident response information with others responding units and/or organizations and the public.

Concerned Person:

4. Operation Desk

- ✤ Oversees and coordinates the entire operation.
- During recovery, all of the other recovery teams will report to this team on a regular basis.
- ✤ Advices the IC on issues regarding incident safety
- Ensures the safety of all incident personnel

 Actions needed: need to set up the DEOC (Equipment support provided through NAPA II) – interim DEOC identified as disaster store

Concerned Person:

a) Rapid Assessment Team

- Pre –Identify Rapid Assessment Team members and train and familiarize with assigned area
- Pre Communication set-up (procure additional HF/VHF sets and distribution)
- Pre Rapid assessment forms to be available in all gewogs and in the DEOC after the form is finalized by DDM.
- During conduct immediate assessment of disaster in terms of no of people affected (dead, injured, without shelter, missing), people needing SAR, evacuation, medical assistance, extent of damage, road network and bridges
- ✤ After Carry out periodic assessments as directed by team leader

Concerned Person:

b) SAR team

- Pre identify members and leaders (including how many teams)
- Pre Any other SAR teams, volunteers
- Pre SAR teams to be trained (including code of conduct and emergency first aid) and equipped
- Pre stockpiling of SAR equipment
- During Contact and deploy, including other SAR teams and volunteers

Concerned Person:

c) Medical Teams

- a. Pre-Identify team members
- b. Pre –Training in emergency first aid for Dzongkhag/ gewog staff and residents
- c. During: Provide medical relief

Concerned Person:

d) Evacuation Team (identify team members and no of teams)

- a. Pre-List of vehicles with names and contact details (Dzongkhag and regional Pool vehicle, private vehicle, school buses)
- b. Pre-identify people in each team based on identification of evacuation areas- identify team leader
- c. Pre-Identify volunteers from the communities
- d. Pre-Evacuation areas: identify evacuation areas for each location
- e. Pre-Awareness on the identification of evacuation centers and routes (based on specific hazard)
- f. **Pre-**Pre-arrangement with BoD for fuel supply
- g. **During** Evacuation from the affected area to the nearest identified evacuation center/Medical center
- h. **During-** give priority to the vulnerable groups (injured, old, children, people with special needs, women)

Concerned Person:

- e) Debris Clearing Teams
 - a. **Pre-** no of teams- names of the team members, leader
 - b. **Pre-**Make list of Machinery, excavators within the dzongkhag including private, DoR and corporate
 - c. **Pre-**Identify the volunteers from communities
 - d. **During-** Clear debris based on the rapid assessments (roads, buildings, bridges etc)

Concerned Person:

f) Immediate Restoration Team

- **a. Pre-** Identify required resources, stockpile, mapping of road network, bridges, water supply network
- **b. Pre-** pre-arrangement with services providers (BPC, RSTA, RBP, RBA, relevant stakeholders)

g) Mass Corpse Management Team:

- a. During support families to transport body to cremation ground; support Dratshang Lhentshog and RBP to carry out mass cremation in case of unidentified bodies
- b. Pre Clarify dead body management guidelines with MoH and DDM
- c. Pre Clarify procedures at national level, including identification of locations and arrangements for dead body storage/ preservation; dead body handling/ labor at cremation sites – DDM and MoH
- d. Territorial/ Range Office to provide firewood

h) Carcass disposal Team

- **a.** Pre clarify procedures for carcass disposal (MoAF BAFRA, DoL)
- **b.** Pre Identify locations and labors
- **c.** During collect, transport and dispose carcass at identified locations in coordination with DoL and BAFRA

Team Leader-

5. Logistics/ Admin/ Finance Desk:

- Identify shops and items (based on guidelines issued by DDM)
- Logistics team to be stationed at DEOC/ or strategic location depending on assessment

- Request, maintain and distribute stockpiles of Equipment, Food, water, Tents, blankets and other emergency relief items
- Provide logistics support to all operations teams
- Responsible for all the matters related to finance during the disaster
- Provide financial directives to DEOCC
 - *

Team leader:

i) Evacuation Centre Management Team/ Relief Team

a. Shelter -

Pre-stockpile (blankets, tarpaulin sheet, tents, CGI sheets, family kits, minimum standards, bamboo, rope, mat/mattress fuel/fire wood (pre-arrangement)

During- setup the shelters, distribute relief items

b. Food and water-

Pre- as per the minimum standards (individual or family) (FCB)

During -Distribute food and water, ensure fair distribution

c. Sanitation-

Pre-stockpile (health and hygiene kits)

During – distribute health and hygiene kits

d. Safety and security, crowd management- RBP at distribution points and at each evacuation center with assistants from trained volunteers

Pre- agreement on dress code, procedure on safety and crowd management and awareness to general public on safety arrangement

Pre – pre-arrangement with the RBP

During - provide safety and security at the evacuation center, crowd management

e. Medical -MoH (medical staff in each evacuation center)

Pre – pre-arrangement with the MoH;

During – provide medical services at the evacuation center, triage, counseling and psycho-social support

Need: stockpiles of essential food- FCB, tents, blankets, basic SAR equipment (shovel, helmet, gloves, stretcher, battery operated lighting, safety boots, flash lights, goggles, dust mask etc), generators, portable toilets

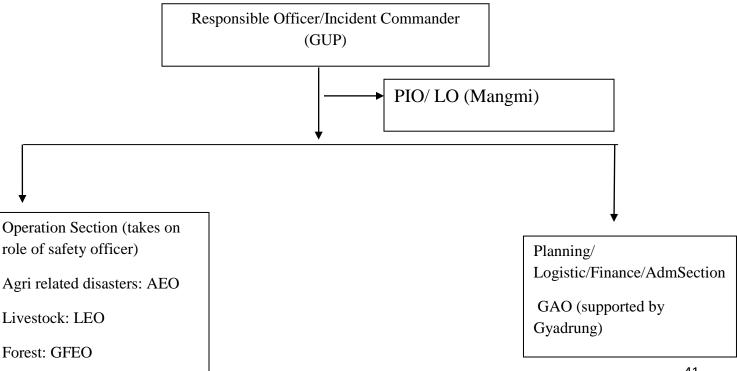
- Detailed inventory of stockpiles and resources and things that need to be procured **Concerned Person:**

6. Planning Desk

- ✤ Responsible for making the incident action plan
- ✤ Maintain proper documentation, reporting and accounts

Team Leader:

ICS Organizational Chart at the Gewog Level (IMT)



Annexure

1. List of DDMC

Sr.	Name	Designation	Contact No
1	Ratna B Gurung	Dzongdag	17920090
2	Jampel	DT Thrizin	17671655
3	Jamyang Jamphel	SP	17118003
4	Jigme Kelzang	DHO	17606306
5	Pema Wangchuk	СМО	
6	Ugen Sangay	Thromde Ngotshab	17337296
7	Dorji Jamtsho	Procurement Officer	17766202
8	Tshering Choden	Finance Officer	17834168
9	Jigme Namgyal	Desuung Coordinator	17928070
10	Rinzin Wangmo	DDMO	17581681
11	Sangla	Chokhor gup	17674749
12	Ugyen Nima	Tang gup	17445276
13	Khandu Wangchuk	Ura gup	17341959

III. Dzongkhag SAR team:

SI.					Trainin	g Type, Pla	ce & Year	
no			P/DID/CID				Month-	
	Name	Designation	No.	Agency	Basic	Refresher	Long	Cont. No.
	Rinzin							
1	Wangmo	DDMO	11509001777	Dzongkhag	Yes			17581681

2	Tashi	Technician	11606003040	Dzongkhag	Yes	17493520
	Kipchu	Pharmacist	11903000911		Yes	17984407
	Tshering					
4	Kiba	Technician	10104001604	Hospital	Yes	17544511
	Jigme	Desuup		1		
	Namgayl	coordinator	10101004144	Desuup	Yes	17928070
		Teacher		•		
6	Leki	(Jakar HSS)	11914001102	Desuup	Yes	17814938
	Damcho	Drungtsho,				
7	Wangchuk	Hospital	10402000223	Desuup	Yes	17696624
		Principal				
	Dechen	(Gangrithang				
8	Loday	PS)	11704002478	Desuup	Yes	17723282
	Karma	Teacher				
	Wangdi	(Gyatsa PS)	10706002646	Desuup	Yes	17860207
	Leki	Wangdichoili				
10	Wangdi	ng LSS	12005002622	Desuup	Yes	17969131
	Karma					
	Wangchuk	RRCO	11509004451	Desuup	Yes	17658054
	Pema	Teacher				
12	Tshering	(Chumey CS)	10101002663	Desuup	Yes	17430964
	Sonam					
13	Tobgay	Chuma	12008000171	RBP	Yes	17385117
	Tshering	~				
14	Gyeltshen	Gopa	11605003224	RBP	Yes	17493508
	Tshering	~				
15	Dorji	Gopa	10208000041	RBP	Yes	17291490
	Tshering	CI.	11504004440			15050040
	Tshomo	Chuma	11704001410	RBP	Yes	17853349
	Namgay	G	10000004441			77240767
17	Dorji	Gopa	10203004441	КВР	Yes	77342767
	Kinley	D 1	12000000000			17576400
	Dorji	Pelpon	12008000800		Yes	17576428
19	Dazala	Drimpon	11501001575	КВР	Yes	77294592
00	Tshering	Daimaran	10207001101	חחח	Vaa	1707401
	Dorji Somno	Drimpon	10207001191	кбр	Yes	17687481
	Sampa Gualtrahan	Driman	11504001616	ססס	Vaa	17054000
	Gyeltrshen Songoy	Drimpon	11504001616	КDГ	Yes	17254022
	Sangay Dorij	Dolnon	10702001226	DDD	Vaa	7722255
	Dorji Tohdhan	Pelpon	10703001336 12005000802		Yes	77336355
23	Tobdhen Wang	Drimpon	12003000802	КDГ	Yes	77713654
24	Wang Tshering	Drimpon	11111001336	DBD	Vaa	17689313
	Tshering Tsheten	Drimpon Poliob			Yes	
25	Tsheten	Peljab	11506001992	квр	Yes	17502883

	Wangchuk						
	Bir Bdr.						
26	Limbu	Gopa	10205003635	RBP	Yes	Yes	77245183
	Namgay						
27	Dorji	-	10101000176	Desuup	Yes	Yes	17598729
	Tshering						
28	Jamtsho	-	10101004800	Desuup	Yes	Yes	17536136
	Ugyen						
29	Phuntsho	-	10101004961	Desuup	Yes	Yes	77703811

IV. Logistics Capacity in the Dzongkhag

Emergency Contact Numbers of Responsible Officials at the Dzongkhag and Gewog level

SL. No.	Name	Position	Telephone	Number
			Office	Residence
	Dzongkhag Level			
1	Ratna Bahadur Gurung	Dzongda	17920090	
2	Jamyang Jamphel	SP	17118003	
3	Jigme Kelzang	DHO	17606306	
4	Pema Wangchuk	СМО	17767720	
5	Dorji Jamtsho	Procurement	17766202	
6	Chojay Tenzin	Planning	17992206	
7	Sonam Gyeltshen	DAO	77301004	
8	Jambay Dorji	DLO	17830505	

9	Tshering Choden	Finance	17834168	
10	Ugen Sangye	Thromde Thuemi	17337296	
11	Jigme Namgyel	Desuup Coordinator	17928070	
12	Rinzin Wangmo	DDMO	17581681	
SL. No	Gewog Level			
1	Sangla	Chokhor Gup	77299781/17674749	Chokhor Gewog
2	Namgay Tshering	GAO	17613653	
3	Kencho Norbu	Mangmi	17366311	
4	Chimi Dorji	Tshogpa	17292161	
5	Sonam Phuntsho	Tshogpa	17619576	
6	Kinley	Tshogpa	17715194	
7	Tashi Galey	Tshogpa	17452171	

8	Pema Tshomo	Tshogpa	172384236	
9	Jampel	Chumig Gup	17671655	Chumig Gewog
10	Kelzang Dorji	Mangmi	17617413	
11	Sangay Tenzin	Tshogpa	77791489	
12	Kelzang Dorji	Tshogpa	17970767	
13	Pema Gyeltshen	Tshogpa	17254325	
14	Sonam Lhamo	Tshogpa	17493226	
15	Kuenzang Lhamo	Tshogpa	17554947	
16	Ugyen Nima	Tang Gup	17445276	Tang Gewog
17	Lobzang Dhendup	GAO	17834718	
18	Sangay Tshewang	Mangmi	17422320	
19	Tashi Lhendup	Tshogpa	77298490	

20	Sangay Tshewang	Tshogpa	17675622	
21	Ngawang Lhendup	Tshogpa	17434153	
22	Thekcho Dorji	Tshogpa	77870406	
23	Sonam Dorji	Tshogpa	17361049	
24	Khandu Wangchuk	Ura Gup	17341959	Ura Gewog
26	Khandu Tshering	Mangmi	17517768	
27	Tshering Dema	Tshogpa	17671355	
28	Phuntsho Dendup	Tshogpa	17416902	
29	Tshewang Jamtsho	Tshogpa	17534868	
30	Pema Wangchen	Tshogpa	17944962	
31	Ugyen	Tshogpa	19381190	

List of Major Government Health Facility

Sl.	Nameof	Telephone	No of	Facilities available
No.	Hospital	No.	Doctors	

	& address			No. of beds	Ambulances	Blood bank	X-ray machine
	Wangdicholing Hospital	03631112	7	28	2	Yes	Yes
	Choekhortoe PHC	17705091	Nil	4	Nil	No	No
3.	Chumey PHC	17705030	Nil	4	Nil	No	No
4.	Mitsethang PHC	77109546	Nil	4	Nil	No	No
5.	Menchu PHC	17346506	Nil	4	Nil	No	No
6.	Pangkhar PHC	17321582	Nil	4	Nil	No	No

List of Medical Stores / Pharmacies

Sl. No.	Name of medical store and address	Telephone r	
		Shop	Residence
1.	Tshering Netshel Pharmacy (Chamkhar)	17714348	
2.	Pema Yangzom Pharmacy (Chamkhar)	17670900	

List of Temporary Shelters for Evacuation

Sl. No.	Name and address	In-Charge	Telephone no.
1.	Jakar School MPH (Jakar)	Principal	17614930
2.	Wangdicholing MPH (Wangdicholing)	Principal	17670732
3.	Chumey School MPH (Chumey)	Principal	17676727
4.	Ura School MPH (Ura Dozhi)	Principal	17120566
5.	Tang School MPH (Mesithang)	Principal	17120375
6.	Karma Academy MPH (Phurjoen)	Principal	17688793
7.	Gyatsa Community hall (Gyatsa)	Tshogpa	77791489
8.	Gyatsa School MPH (Gaytsa)	Principal	17919503
9.	Zungaye School MPH (Zungage)	Principal	
10.	Chungphel community hall (Chungphel)	Tshogpa	17554947
11.	Thangbi Community hall(Thangbi)	Tshogpa	17715194
12.	Tangsibi Community hall (Tangsibi)	Tshogpa	17944962
13.	Dhur School MPH	Principal	
14.	Kuenzangdrak Community hall (Kuenzangdrak)	Tshogpa	17434153
15.	Tangsibi School MPH	Principal	
16.	Shingnyer School MHP	Principal	17120261

List of Animal Shelters

Sl.	Name and address	In-Charge	Telephone
No.			no.

1.	National Cattle Breeding Centre, Lebi, Bumthang	Mr. Padam	17649855
		Gurung	
2.	National Equine Research and Development Centre,	Mr. Sonam	17606458
	Nasiphel, Bumthang		
3.	National Small Ruminant Research and Development	Mr. Sonam	17683484
	Centre, Dungmithang, Bumthang	Jamtsho	
4.	Wobthang Community Dairy Farm, Tandingang, Tang,	Mr. Pema	17254715
	Bumthang	Namgay	

List of Rescue Equipment Used During Earthquakes

	Name of Equipment	Address of	Telephone no.
		owner	
1.	Ordinary Stretcher (Basket type)	DDMO, Bumthang Dzongkhag	17581681
2.	Easy Stretcher (Cloth)		
3.	Static Rope (200 m)		
4.	Hard Hat		
5.	SAR Kit		
6.	Life Vest with Zip		
7.	Rescue Ascender		
8.	Ready Made Anchor		
9.	Body Harness		
10.	Carabineer		
11.	Single Pulley		
12	Seat Harness		
13.	Figure of Eight		
14.	Tandum Prussik		

List of Transportation Vehicles

Sl. No.	Туре	Name and address	Telephone no.
1.	Bus	Jakar School	17614930 (Principal)
2.	Bus	Tang School	17120375(Principal)
3.	Isuzu hilux		
4.	Bus	Ura School	17120566(Principal)
5.	Bolero		
6.	Bus	Chumig School	17676727(Principal)
7.	Isuzu Hilux		
8.	Bus	Karma Academy	17688793(Principal)
9.	Bus	Chumey VET	(Principal)
10.	Toyota Hilux		

11.	DCM	Dzongkhag	17710899 (MTO)
12.	Ford Hilux		
13.	Toyota Hilux		
14.	Veterinary Ambulance Bolero		
15.	Land Bolero		
16.	Fortuner		
17.	Isuzu Hilux		
18.	DCM(waste)		

List of Voluntary Organizations

Sl.	Name	Address	Telephone
No.			no.
1.	Red Cross Society	Chamkhar, Bumthang	17110328
2.	Desuup Coordinator	Regional Office, Bumthang	17928070
3.	Ugyen Wangchuck Institute of Conservation and Environment Research	Lamai Gonpa, Bumthang	77480269
4.	Royal Bhutan Police	Wing XIII, Bumthang	17118003

List of Volunteers

Sl.	Name	Address	Telephone
No.			no.
1.	De-suup	Regional Office,	17928070
		Bumthang	
2.	Royal Bhutan Police	Division XIII, Bumthang	17118003
3.	Ugyen Wangchuck Institute of Conservation and Environment Research	Lamai Gonpa, Bumthang	77480269
4	Karma Dema, Red Cross Society	Chamkhar, Bumthang	17110328

List of Food Warehouses

Sl.	Address	Capacity	Telephone
No.			no.
1.	Food Corporation of Bhutan Limited, Chamkhar	150 MT	17628425
2.	Regional National Seed Centre Farm Store, Nasiphel	100 MT	17649772
3.	Regional National Seed Centre Farm Store,	100 MT	17649772
	Chamkhar		

List of Fire-fighting (trucks, equipment, location, capacity)

SL	Facilities/equipment/	Location	Capacity	Contact	Phone
	personnel			person	
1.	Fire brigades	RBP, Chamkhar	4500 lit	PelponDazala	110
2.	Fire Fighting (Pump)MV	RBP, Chamkhar	1500 lit	-Do-	

V. Contact details of Des-sup In-charges

Regional Co-coordinator: Mr. Jigme Namgyal, UDee Construction, Bumthang- 17928070

Sl.No	Name	Work Place	Mobile Number	Remark
1	Jigme Namgyal	UDee Const, Bumthang	17928070	Regional Coordinator
2	Namgay Dorji	Businessman, Chamkhar	77870367	In-charge, Chokhor
3	Pema Tshering	Teacher, Chumig HS	17430964	In-charge, Chumig
4	Sonam Wangdi	VP, Tang HS	17685147	In-charge-Tang
5	Karma Jurmi / Khandu Wangchuk	Public/Gup	17732699/17341 959	In-charge, Ura