





DISASTER RISK REDUCTION (DRR) ROADMAP OF ASSAM

(CACHAR DISTRICT DRR ROAD MAP DRAFT REPORT)

DISTRICT: CACHAR



District Disaster Management Authority, Cachar O/o The Deputy Commissioner, Cachar

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1. Background:

Cachar district comprises of 5 Revenue Circles and 15 Development Blocks with an estimated 1040 villages and 42 uninhabited villages.

As per census, population of Cachar district is 1,736,319 with <u>gender ratio</u> of 958 <u>females</u> for every 1000 males. The average size of family ranges from 4-5 members and the adult nuptial age is about 25-35 years. People from diverse religious, caste linguistic and ethnic background cohabitate harmonically in this district.

The key development indicator encompasses the physical, economical, social and environmental aspects of the district. Over the years, the district witnessed high growth in physical assets like road, rail, water, air, communication and technology network, health and educational institutes, industries, banks, offices, markets, residential townships, apartments, houses, religious places of worship, sports and entertainment complex etc many of those are multi hazard non-resilient, thus had multiplied the risk on developmental outcomes of the district. Socio-economic development indices of the district like gross industrial and agricultural productivity, per capita income, literacy rate, employment rate, poverty rate, unsecured indebtedness, gender ratio, mortality rate (child and adult) etc are priority areas which need to be protected from disaster impacts. As per 2011 census, the average literacy rate of Cachar District is around 85% where male literacy rate is higher than the female literacy rate and the percentage distribution of the working and non-working population of the district is 35 % and 65 %. Also the green assets and the environmental heritage of the district need to be preserved and protected from the present unsustainable developmental practices.

The Assam DRR Road Map preparation includes a decentralized discourse with all stakeholders of each district where from relevant inputs would be compiled and processed.

In conformance with the objective and rationale of the Assam DRR Road map, the Cachar District DRR Road Map is prepared to sensitize the DDMA members and other stakeholders on the need for renewed and effective actions for disaster risk reduction. The proposed district specific disaster risk reduction road map has been designed to be an inclusive process where views, opinions, experiences and expertise of various stakeholders are taken into consideration and consequent actions are framed thereof with equitable delegation and ownership of stakeholders at all levels.

2. Situational Analysis:

Cachar district is disaster prone, and so disaster risk here is complex, multidimensional and dynamic owing to various natural and human induced causal factors. Exposure of vulnerable population to natural hazards like earthquake, drought, flood, cyclone, hailstorm, lightning, river bank erosion, landslide, surface and ground water scarcity etc had a history of impairment of quality of life and livelihood of the people of Cachar district. Human induced hazards like fire, urban flood, water-drowning, boat capsizing, road-rail and work environment accidents, epidemics, untreated solid and liquid waste, food adulteration etc took their respective toll in human, socio- economic and environmental resources of the district. In the past 10 years, several individuals, families and communities were victims of both irreversible and reversible damages and loss. Institutional and societal capacity gaps together with pre-existing vulnerabilities had manifold increased the exposure of risk elements of disaster. The loss of resources, food security and access to shelter had offset the developmental gains which lead to unstable livelihood means, population migrations, poverty, unemployment, encroachment etc.

3. Process followed in the District:

For developing this recommendation report, DDMA Cachar has undertaken a multi-staged outreach, research, processing, compilation, documentation and feedback program in consonance with procedural framework from ASDMA. At the initial level Circle Level Disaster Management Committee (CDMC) meeting was organized at each revenue circle of the district viz., Udharbond, Silchar Sadar, Sonai, Katigorah & Lakhipur wherein stakeholders and common citizens shared their valuable experience, opinion, suggestion and information. After completion of CDMC level consultation, the district level consultation under the Chairmanship of the Deputy Commissioner, Cachar was held. District level stakeholders, central rescue agencies, independent consultants, students, volunteers and others

discussed over the district DRR Roadmap which evolved some key findings with formulation of action plan.

4. Key Findings and Plan of Action:

	5) L=(203 0)	C RCJ			within existing schemes 2= Need Additiona l Resource s
NATURAL HAZARDA) Almost 80% of the spatial population of the district was found icalRiver bed dredging and improvement of waterway transport.Hydro meteorolog icaloppulation of the district was found vulnerable during major flood on 2010, 2012 and 2018Strengthening of Embankments and dykes.a) Flood/River Bank erosion2010, 2012 and 2018Strengthening of Embankments and dykes.B) Around 60 flood drowning cases occurred over last 10 years.River bank slope stabilization.C) 	M S M I S I S I I S I I I M	Whole	Concern ed line departm ents, CSO etc.	Concer ned Head of Offices	2

	toilets,500schools,around12HealthCenters,andSpot	strengthening. Construction of public assets like roads, schools, hospital	М				
	Sources/PWSS along with damage of overhead reservoir, office room, staff quarter, barge, 60	Flood prone structures merit mitigational measures like rigid pavement in roads with hard shoulder.	Ι				
	embankments breaches 120 roads and culvert damage 14Nos. RCC drop	Livelihood, health and sanitation strengthening programs.	Ι				
	spillways damaged. E) Crop Damage on around 25000 (Ha) involving 537 farm families and 50 Ha fishery area were affected in last 10 years F) Post hazard livelihood, health	Encouraging early and staggered sowing among farmers, and growing of submergence tolerant variety of crop.	Ι				
	and sanitation impact on sufferers.						
b) Cyclone/Sto rm	G) Around 1, 87,000 people had been affected with 35 casualties, 200 injuries in last 10 years by cyclone/storm.	Strengthening Early warning communication and evacuation system from vulnerable areas.	Ι	Katigor ah and Silchar.	Concern ed line departm ents, CSO etc.	Concer ned Head of Offices	2
	 H) Around 47,800 houses were damaged. I) Around 427 educational institutes and 	Inventory planning for evacuation, rescue, relief and reconstruction resources.	Ι				
	offices, 16 Health Centers, 17	Cyclone/Storm resilient design and	М				

	Anganwadi	construction					
	Centers, 857	materials.					
	toilets and 22						
	Spot	Conservation of	м				
	Sources/PWSS.	wetland, natural	IVI				
	500 electrical and	channels, green					
	telecommunicatio	cover. etc. to					
	n assets damaged	prevent water-					
	927 transformors	logging and brisk					
	$2120 \text{ km}_{\text{S}} \text{ LT line}$	inundation.					
	$\Sigma 120$ KIIIS LT IIIIe,						
	500 KIIIS 11KV	Community					
	500 KIIIS, 33 KV	awareness on risk	I				
	98 kms electric	preparedness and					
	line damaged.	mitigation.					
	J) Crop Damage of	Encouraging					
	around 6700 Area	traditional practice of	Ι				
	(Ha) involving	habitat maintenance					
	296 farm families	after harvest season.					
	was affected.						
	K) Post hazard	Encouraging early	I				
	livelihood, health	and staggered	1				
	and sanitation	sowing among					
	impact on	farmers, and growing					
	sufferers.	of submergence					
		tolerant variety of					
		crop.					
		a · · c	М				
		Conversion of					
		overnead electrical					
		line to underground					
c)Lightening	I) 41 deaths had	Roof and wall	М	Silchar	Concern	Concer	2
/Hailstorm/	been reported due	reinforcement	141	and	ed line	ned	2
/ nalistorin/	to lightening 5	measures in		Lakhinu	denartm	Head	
Lanushue	casualties and 15	vulnerable public		r	ents.	of	
	injuries due to	and private			CSO etc.	Offices	
	landslide in 2016-	structures for					
	2017.	hailstorm protection.					
	M) Approximately	Slope stabilization	М				
	1000 ha crop lands						
	due to hailstorm	Sensitization on safe					
	and about 12	practices during	Ι				
	heen affected due to	electrocution					
	lightening and						
	hailstorm						
ii)	A) Injury to about	Implementation of	Ι	Whole	Concern	Concer	2
Earthquake	70 people , deep	Building laws.			ed line	ned	
1	•	-		1	1	1	1

	cracks in 30-35 buildings and around 129 physical structures like	Safe Construction practices.	Ι		departm ents, CSOetc	Head of Offices	
	schools, colleges, offices, residential	Seismic Microzonation	М				
	places , hospitals affectedin last 10 years	Engineers and Masons training.	Ι				
	B) Geo- morphological changes.	Identification of vulnerable structures and retrofitting.	М				
		Electric and fire safety audit.	М				
		Open space mapping.	Ι				
		Response and preparedness drill.	Ι				
MAN MADE HAZARD Fire	A) Around 247 fire incidents have taken place in last 10 years	Sensitization on fire safety. Fire mitigation and	Ι	Whole	Concern ed line departm ents	Concer ned Head of	2
	P) This hagard has	prevention exercise.	М		CSO etc.	Offices	
	lead to 99 house, 143 commercial establishment damage and 50	Awareness on fire resistant construction material usage.	Ι				
	casualties.	Industrial, Commercial and domestic fire prevention and mitigation capacity improvement.	S				
		Line department capacity building.	М				

Road/Rail Accident	A) Around 200 deaths in road and 5 deaths road and rail accident have taken place in last 10 years.	Road way, culvert, bridge, rail crossing etc safety and fitness review. Flow regulation, re-	М	Whole	Whole Concern ed line departm ents, CSO etc.	Concer 2 ned Head of Offices	
	B)Around 3000 injuries in Road accident.	routing and diversion of movement of vehicles, pedestrians and animals.	I				
	C) Damage of vehicles, road, railway assets and public property.	Eviction drive on Encroachment, unauthorized parking space, etc.	Ι				
		Public awareness cum enforcement drive on Raod/rail safety practices.	Ι				
		Comprehensive Traffic Management.	Ι				
		Drivers training.	Ι				
		Speed control mechanism and interceptors.	Ι				

	A) Around 100	Desilting of natural	Ι	Silchar	Concern	Concer	
Urban Flood	houses, offices,	canals and link			ed line	ned	
	commercial	channels to increase			departm	Head	2
	establishments are	flow capacity.			ents,	of	
	affected.				Municip	Offices,	
		Construction of			al	Munici	
	B) Impairment of	Storm water	М		Boards/	pal	
	routine economic,	drainage.			Town	Boards	
	educational, social				Committ	and	
	activities.	Solid waste clearance			ees, CSO	Town	
		of flow channels	I		etc.	commi	
						ttees.	
		Ground elevation and					
		gradient	S				
		maintenance.					
		kain water	м				
		narvesting.	IvI				
		Downton logging by					
		mobile high capacity	c				
		numps	5				
		pumps.					
		Source segregated	S				
		solid waste collection					
		and de-centralized					
		environment friendly					
		treatment and					
		disposal (SLRM).					

5. Conclusion:

In view of the dynamic multi-hazard risk exposure, vulnerability and capacity gaps, utmost priority is to save and protect lives, livestock, environment and the developmental assets and gains of the district. Thus a comprehensive approach for preparation of district disaster risk reduction roadmap with key findings and time bound implementable action and financial support is the need of the hour for ensuring an inclusive, sustainable and DRR compliant growth and development to build a disaster resilient society.

District level disaster risk reduction initiatives merits immediate integration with all developmental plan and action at the Gaon Panchayat, Town ,City and Community level for making the district more safer and livable.

Physical, social, cultural and environmental vulnerability reduction measures in one hand and capacity building in terms of assets, resources and coping capacity of at risk community on the other hand would reduce the risk and thus the impact of hazard on all developmental gains. DRR action plan formulation, implementation and mainstreaming with the Gaon Panchayat Development Plan, Urban Legislative Body Development Plan, Town Committee Development Plan and District Development Committee Plan under the supervision of DDMA are required.

Addl. Deputy Commissioner, & CEO, DDMA, Cachar. Deputy Commissioner, & Chairperson, DDMA, Silchar, Cachar.