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MO. Rev (DMC) (F) -4-2/2019-Flood Department of Revenue (DM Cell) Government of Himachal Pradesh.

The Principal Secretary (Rev-DM) to the Government of Himachal Pradesh, Shimla-2

Diary No 2046

2 4 AUG 2020

Directorate of Urban Development Shimla-171002

- 1. The DGP, HP, Police HQ, Nigam Vihar, Shimla-02
- 2. The Principal Chief Conservator of Forest, Forest Department, Talland, Shimla-2
- 3. The Engineer in Chief, PWD Nigam Vihar, Shimla-02
- 4. The Engineer in Chief, I&PH, Tuttikandi Shimla-4
- 5. The Managing Director, STPI Building Block-24 SDA Complex, Kusampti, Shimla-9
- 6. The Director, Energy, Shanti Bhawan, Sector-5, Shimla-2
- 7. The Director of Env, Science and Technology, Shimla-1
- 8. The Director of Urban Development, Shimla-1
- 9. The Director of Social Welfare, SDA Complex, Shimla-9
- 10. The Director of HIPA, Fairlawns, Shimla-12
- 11. The Director of IPR, Information Bhawan, Shimla-2.
- 12. The Director of Health, SDA Complex Kusampti, Shimla-9
- 13. The Director of Rural Development & Panchayati Raj, SDA Complex, Kusampti, Shimla-9
- 14. The Deputy Commissioner-cum-Chairperson, DDMA (All District in the Himachal Pradesh)
- 15. The Secretary, HPBOSE, Dharmshala, District Kangra
- 16. The Scientist In-Charge, G.B. Pant National Institute of Himalayan Environment, Mohal, Kullu 175126
- 17. The Registrar, National Institute of Technology Hamirpur, Himachal Pradesh, Pin No. 177005,

Dated Shimla-2, the 20th August, 2020

Subject: Implementation of National Guidelines for Flood Management, 2008

Sir,

I am directed to refer to the subject cited above and to say that the flash floods are another form of disaster which the State experiences every year. Due to the diverse topography of the area, the flood problem in the state is largely isolated in nature. High monsoon rains in the area of the Shiwalik and lower and mid Himalayan ranges cause extensive floods during rainy seasons. Often the flash floods caused due to cloudbursts,

glacial lake outbursts and temporary blockade of the river channels have been also observed in the State.

Floods cause huge losses to lives, properties, livelihood systems, infrastructure and public utilities which can be minimized through Flood Risk Management. It is necessary to undertake measures for the evolution of a holistic and integrated strategy to address the critical factors that accentuate flood risk through multi-sectoral and multi-dimensional administrative approach involving activities such as Institutional Framework and Financial Arrangements; Flood Prevention, Preparedness and Mitigation; Flood Forecasting and Warning; Dams and Reservoirs Regulations; Capacity Development; Response and so on.

To enable effective mitigation and management of Flood Management, NDMA has released the National Disaster Management Guidelines for Management of Flood 2008 after intensive deliberations by the Expert Committee. These Guidelines provide a framework for implementation, coordination and evaluation of activities undertaken by the authorities concerned in their respective area of jurisdiction to reduce the negative impact of floods.

A table containing roles and responsibilities of different stakeholders is enclosed for your reference. For more details, you may download soft copy from the Guidelines for Flood Management 2008 from NDMA website on URL: https://ndma.gov.in/images/guidelines/flood.pdf

You are therefore, requested to go through these SOPs and prepare point-wise action plan and implement the same for Prevention and Management of flash flood with respect to your Department/Organization and share action taken to this department at the earliest, please.

Yours faithfully,

(D.C. Rana)

Director-Special Secretary (Rev-DM) to the Government of Himachal Pradesh Dated, Shimla-2 the, 20th August, 2020

Enst. No: As above Copy for information to:

The Addl. Chief Secretary, Principal Secretary/Secretary (Health, Finance, Forest. Home, I&PH, PWD, MPP & Power, Science & Tech, IPR, Education. Social Welfare, UD, RD & Panchayat Raj) to the Govt. of Himachal Pradesh, Shimla-2.

Director-Special Secretary (Rev-DM) to the Government of Himachal Pradesh

1000 Q		Contral State Agencies and their Seco	MARKETER	MON DESCRIPTION OF STREET STREET
Area for DER	Con to		State	Responsibility - State
			• HP State	Recurring/Regular (RR)
		Recurring/ Regular (ERC)	Disaster	 Support and couperate with
		Assessment, Monitoring, and Scientific studies	Management	S
		Short Term (T1)	Authority	 Sponsor state-specific efforts;
		• Preparation of close contour and flood	(HPSDMA)/	local efforts for
		vulnerability maps	District Disaster	management
		· Modernization of flood forecasting and	Management	 Support local information
	erion e ae	warning systems on a river basin basis	Authority	and updat
Team ston		- Assist states/UTs in the identification of priority	(DDMA)	
Networks.	-	flood protection and drainage improvement works	* Revenue	Short Term (T1)
information	MOES*	 Monitoring of flood preparedness, river basin 	urigation and	• Implementing and monitoring of
Systems,	MOJS/CW/C	and reservoir management plans	Public Health,	iness, river basin a
Monitoring,	* WATE	Medium Terms (12)	> Directorate of	reservoir management plans including
Research,	DOS,	Studies and monitoring of rivers flowing	Energy (DUE)	updating rule curves, improve system
Forecasting &	MEITY.	from neighboring countries	o Croan	of water release from reservoirs
Early Warning	ZET	studies involving international cooperation	Development	• Identification of priority flood
	I vir - maskin	for forecasting and cross border issues	(00)	protection and drainage
	person model	Implementation of the schemes for real-time	Charle Command of	improvement
		collection of hydro-meteorological data on	» State Council of	Medium Lerm (Z2)
	No. March	important rivers including the relevant rivers		Studies on land use and hydrological
		nowing from Nepal, Shutan and China	onment on	changes relevant to flood management
		* Specialized efforts for different types of floods		in river basins and reservoir command
	To diese patricipes	and causes of flooding, including cloudburst		areas
	i. Service di	Long Term (7.3)	Ni-Hamipu	Long Term (T3)
		" Developing/ improving/ updating forcusting	• GB Fanth	Execution of flood protection and
en este e esta e esta esta esta esta esta		and storage of dams	itute of	drainage improvement schemes
Zoning, mapping, and	and a second	Short Term (T1)	Studies-Kullu	Recurring/ Regular (RR)
classification	NOI.	areas identify large-scale hazard maps of flood prone		 Support and cooperate with central
flood prone	DOS.	areas identifying areas of high vulnerability		
	NI RT			 Sponsor state-specific efforts; support

Flood Sub-Thematic
Area for DRR
Research and Development
Standard Standard Standard Control of the Control o
Hazard Risk Vulnerability and Capacity Assessment (HRVCA)

Flood	The state of the s	Central/ State Agencies and their	Recominition
And themane	Confro	Responsibility - Centre	
		Decurring/Regular (RR)	
		Quick, clear, effective dissemination among central and	
		state agencies	HPSDMA/
			ODIVINS,
		of n	Public Information
		i, last	Deptt. (IPR)
Dissemination of	MOES, MOJS	connectivity and access to disaster risk	
Swarnings, data,	MELLY,		I&PH
and information	MOIB, MEA	 International cooperation to share warnings about 	RD & PRI
in make u	NDMA, DOS	rivers flowing from neighbouring countries	
		 Promoting reliable networking systems for data and 	UD
		information sharing among central and state	
		agencies	
Protesta and Control of the Control		 Monitoring of landslides and blockages in rivers 	
	No. of Contract of	Warning systems	
		 Providing information in all possible ways and 	
		using all types of media	
		• Interface with mobile network	
		service providers for warnings	
in the state of th		Recurring/ Regular (RR)	
Disaster Data	Mu A' MOCDI	Systematic data management of data on disaster damage and loss assessments	HPSDMA/ DDMAs,
Management	all .		All dente
	ministries/ depts.	Short Term (T1)	All depts.
		Disaster Damage and Losses 2005 2015 baseline	

Inter-Agency Coordination

Centre Centre MOJS, IMD, DOS, MEITY, NDMA MHA, BIS,	Z	(J)	2	<u> </u>	Flood Sub Are
Responsibility – Centre Responsibility – Centre Recurring/ Regular (RR) Providing coordination, technical inputs, and support Recurring/ Regular (RR) Organizing and coordinating central assistance Recurring/ Regular (RR) Effective coordination and seamless communication among central and state agencies to ensure quick, clear, effective dissemination of warnings, information and data Recurring/ Regular (RR) Coordination among central and state agencies for a) revised/ updated rules, norms b) adoption of new/updated standards, c) enact/amend laws.	Non-structural measures	Warnings, nformation, Data	Response	verall disaster governance	•
Central/State Agencies and their Responsibility - Centre Recurring/ Regular (RR) ordination, technical inputs, and support Recurring/ Regular (RR) ordination and seamless communication all and state agencies to ensure quick, clear, semination of warnings, information and seamless communication all and state agencies for updated rules, norms b) adoption of standards, c) enact/amend laws.	MHA, BIS, NDMA	7	МНА	MOJS	Centre
	Recurring/ Regular (RR) among central and state agencies for updated rules, norms b) adoption standards, c) enact/amend adopt/ review policies.	Recurring/Regular (RR) Effective coordination and seamless communication among central and state agencies to ensure quick, clear, effective dissemination of warnings, information and data	Recurring/ Regular (RR) Organizing and coordinating central assistance	Recurring/Regular (RR) Providing coordination, technical inputs, and support	gencies and thei
	Recurring/ Regular (RR) Coordination among state agencies for ensuring updated norms/ codes and their implementation, enforcement and	Recurring/ Regular (RR) Coordinating the dissemination of warnings to all, down to the last mile—remote, rural or urban: Regular updates to people in areas at risk	Recurring/ Regular (RR) Organizing and coordinating the immediate response Coordinate with central agencies	Recurring/Regular (RR) • Preparation and implementation of DM plans and ensure the functioning of agencies with DM tasks • All aspects of disaster risk management and mainstreaming DRR • Ensuring coherence and mucal reinforcement of DRR, CCA and development	Inter-Agency Coordination Responsibility – State

N	Flood				Structural Measures
	Sub-Thematic Area		Central/ State Agencies and	nd their Responsibility	
e media sissa seri	for DRR	Centre	Responsibility - Centre	State	
	Establishment	Relevant Central	Recurring/ Regular (RR) Ensure round the Clock operations of EOCs during the Flood season	HPSDMA	Recurring/ Regular (KK) Ensure round the clock operations of FOCs during the flood season with
and the second second	strengthening of Emergency	Ministries. MHA	with adequate manpower/resources	DDMAs	adequate human resources to respond to flash flood
N		MOJS, NWDA, CWPRS, CBRI,	Recurring/Regular (RR) Technical support and studies	HP SDMA/ DDMAs, RD& PRIs,	• Identification suitable sites for temporary shelters for people and livestock evacuated from localities
industrial de la Principal	construction of embankments and	SERC, IE(I)		UD	at risk Medium Term (T2)
المحافظة في يا في أحد	levees				• Construction of multi-
. Note the second section of		ericani dan alam selah s			purpose shelters in villages/ habitations prone to floods
John Artist and Parking	uncertian estima				 Proper monitoring and maintenance of river embankments
and the second control or the second control		Relevant Central		HP SDMA/	Medium Term (T2) Ensure that flood -resistant
(u)	Social Housing	Government Ministries,	Ensure that flood-resistant features are incorporated in planning and execution of social housing schemes	RD &PRI,	features are incorporated in the planning and
mide in the system by a		MHUA		OD,	execution of social housing schemes in flood prone areas
		NDMA, MOJS,		HP SDMA,	Medium Term (T2 availability of shelters
4	Multi-purpose Flood Shelters	CBRI, SERC,	Advisory (KR)	DDMA, RD&PRIs,	undertake proper maintenance, and make arrangements to support the people shiGed to temporary shelters

				O)	Flood
	Hazard resistant construction, strengthening, and retrofitting of all lifeline structures and critical infrastructure	Desilting/ dredging of rivers to improve flow; drainage improvement; flood water diversion through existing or new channels	Enhancing the safety of dams and reservoirs	Waterways and drainage systems for roads, highways, and expressways	Sub-Thematic Area for DRR
	NDMA, NBCC, BMTPC, CBRI, SERC, IE(I), all relevant Ministries/ Departments	SIOW	STOM	MRTH, MOD, NHAL BRO	Centre
	Recurring/Regular (RR) Guidance and implementation	Recurring/Regular (RR) Advisories and guidance	Recurring/Regular (RR) Advisories and guidance	Recurring/Regular (RR) Proper alignment and design	Central State Agencies and their Responsibility Responsibility - Centre State
UD	HPSDMA DDMA, PWD RD&PRI,	HPSDMA, DDMAs, I&PH RD&PRs, UD	HPSDMA, DDMAs, I&PH DOE	HPSDMA/ DDMAs, PWD, PRIs, UD	and their Pespo
	Recurring/ Regular (RR) Collaboration with technical agencies and implementation	Recurring/ Regular (RR) Implementation as per norms	Recurring/ Regular [RR] Carry out measures to increase safety, reduce risks from flooding Undertake pre- and post-monsoon inspections of dams and reservoirs Monitor the implementation of safety enhancements in accordance with norms	Coordination and cooperation with the central agencies and ensure proper alignment and design in all state projects	

Investing in DRR - Non-Structural Measures

		Management (IWRM)	• Integrated Water Resources	n for	• Regulation and enforcement of laws, norms, regulations, guidelines NWDA	Sub-Thematic Area for DRR Centre	Flood
	IWRM in major river basins and their sub- basins	encourage the states for implementing flood plain zoning regulations Norms/ regulations applicable to buildings in flood-prone areas Long Term (T3) Facilitate the implementation of	zoning and flood inundation management Medium Term (T2) Scheme of incentives and disincentives with respect to the central assistance to		• • •	tre Responsibility - Centre	
				HPSDMA DDMAs I&PH Department of Finance		State State	
Long Term (T3) Implementation of IWRM in major	• Implementing regulatory framework for Rood plain zoning and flood inundation management • Implementing flood plain zoning regulations	manuals for all major dams/ reservoirs • Prevention and removal of encroachment into the waterways and natural drainage systems	efforts; support local efforts; Cooperate with central efforts Short Term (T1) Enforcing building codes and regulations	and drains Implementing flood management action plan Support and cooperate with central agencies; Sponsor state-specific	• Implementing land-use regulation for low lying areas as per flood control norms • Regulation of inhabitation of low-lying areas along the rivers, nalias	Responsibility – State	Non-Structural Measures

4	4		رى ا	2		7
Risk Transfer	Public Private Partnerships	conservation and restoration Catchment Area Treatment/Affor estation	• Wetland	Regulations to promote flood resilient buildings and infrastructure	Sub-Thematic Area for DRR	Flood
MFIN*, NDMA, MHA, MAFW	NDMA, MOJS, MCA*, MCF, MOCI, MOPFI, MHIPE, MFIN		MOEFCC	NDMA, MOJS, MHUA, BIS		
Recurring/Regular (RR) Implementation of Risk Transfer Arrangements including multi-hazard insurance for life and property Short Term (T1) Policy Framework	Recurring/ Regular (RR) Guidance	Guidance and Support	Recurring/Regular (RR)	Recurring/ Regular (RR) Guidance and Support	Central/ State Agencies and their Responsibility Responsibility - Centre State	
HPSDMA/ DDMAs Finance Department	HPSDMA, DDMAs,	Forest Deptt. Local bodies	HPSDMA,	HPSDMA, DDMAs, Local bodies	their Responsit	
Implementation of Risk Transfer Arrangements including multi- hazard insurance for life and property Short Term (T1) Policy Framework	Recurring/Regular (RR) Promote private participation in disaster management facilities	natural depressions Medium Term (T2) Action plan managing wetlands and natural drainage systems for flood moderation Long Term (T3) Implementation of watershed management including catchment area treatment and afforestation programmes	Short Term (T1)	and implement the relevant rules in flood prone areas	50	Noil-Structural Measures

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	2 Curriculum Development	0707	Z Z		Area for DKK	Sub-Thematic	Flood
	MHFW	MHRD, AICTE, IITs, UGC, NIDM, Professional Bodies/ Councils	NDRF, CAPF, MYAS, MOD	NIDM, LBSNAA. NIRM, NDMA. NDRF, NISA. and other training institutions for Indian Civil Services	Centre	Aller and the American and Amer	
Recurring/ Regular (RR) Include awareness about flood and some aspects of flood management in school and college teaching	Recurring/ Regular (RR) Improve coverage of community health and epidemic management medical curriculum	Recurring/ Regular (RR) Strengthen coverage of flood damage mitigation, flood tolerant designs/ crops, and construction techniques	Recurring/Regular (RR) Incorporating disaster response, search and rescue in the training programs of youth such as NCC, NYKS, Scouts and Guides, NSS, SDRF, CDEF, Community, Volunteers	Recurring/Regular (RR) Training and orientation programs for central govt. staff, SDRF, CDEF, community, and volunteers	Responsibility Centre	Central/ State Agencies and	
State Boards of Education	Health Department	Professional Bodies/ Councils	HP SDMA/DDMAs, HIPA Panchayati Raj Training Institute	HP SDMA, DDMAS, SDRF, HIPA, NIT. Hamirpur and other Engineering Training Institutes, Police Training Academies	State	es and their Responsibility	And the second of the second o
Recurring/ Regular (RR) Improving curriculum periodically using new technologies	Introduction of Crisis Management, emergency medical response/recovery and trauma management at Diploma /UG/ PG levels for Health Professionals	Medium Term (T2) Update curriculum for undergraduate engineering courses to include topics relevant for flood Risk Management	Recurring/ Regular (RR) Incorporating disaster response, search and rescue in in the training programs of youth such as village volunteers, and for protection of disaster-affected animals Training for CDEF, Community. Volunteers	Recurring/ Regular (RR) Training and orientation programs for state govt. staff, professionals for veterinary care and support to disaster-affected animals Training for CDEF, community, and volunteers	Responsibility - State		Capacity Development

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	Curriculum Development		Training		Area for DRR	Sub-Thematic	Flood
	MHFW	MHRD, AICTE, IITs, UGC, NIDM, Professional Bodies/Councils	NDRF, CAPF, MYAS, MOD	NIDM, LBSNAA. NIRM, NDMA, NDRF, NISA. and other training institutions for Indian Civil Services	Centre		
Recurring/ Regular (RR) Include awareness about flood and some aspects of flood management in school and college teaching while reviewing the curriculum.	Recurring/Regular (RR) Improve coverage of community health and epidemic management medical curriculum	Recurring/ Regular (RR) Strengthen coverage of flood damage mitigation, flood tolerant designs/ crops, and construction techniques	Recurring/Regular (RR) Incorporating disaster response, search and rescue in the training programs of youth such as NCC, NYKS, Scouts and Guides, NSS, SDRF, CDEF, Community, Volunteers	Recurring/ Regular (RR) Training and orientation programs for central govt. staff, SDRF, CDEF, community, and volunteers	Responsioning	Central State Agenc	The Area Area Area Area Area Area Area Are
State Boards of Education	Health Department	Professional Bodies/ Councils	HP SDMA/DDMAs, HIPA Panchayati Raj Training Institute	HP SDMA, DDMAs, SDRF, HIPA, NIT-Hamirpur and other Engineering Training Institutes, Police Training Academies		Central State Agencies and their Responsibility	ics and their Do
Recurring/ Regular (RR) Improving curriculum periodically using new technologies	Medium Term (T2) Introduction of Crisis Management, emergency medical response/recovery and trauma management at Diploma /UG/ PG levels for Health Professionals	Medium Term (T2) Update curriculum for undergraduate engineering courses to include topics relevant for flood Risk Management	Recurring/ Regular (RR) Incorporating disaster response, search and rescue in in the training programs of youth such as village volunteers, and for protection of disaster-affected animals Training for CDEF, Community, Volunteers	 Training and orientation programs for state govt. staff, professionals for veterinary care and support to disaster-affected animals Training for CDEF, community, and volunteers 	Recurring/ Regular (RR)	Responsibility – State	I. O

				Flood
Vocational Training/Skill Development	Mock Drills/ Exercises	Awareness Generation	Sub-Thematic Area for DRR	od
NDMA, NIDM, MSDE, NSDA, NSDC, IIE, NIESBUD, MMSME, NI SDA	NDMA, NIDM, MOJS, Line Ministries, Govt. Agencies, NDRF, Armed Forces, CAPF	NDMA. NDRF, CAPF, NIDM, MOJS	Centre	
Recurring/ Regular (RR) Promoting skill development for multi-hazard resistant construction in flood-prone areas for different types of housing and infrastructure	Recurring/ Regular (RR) Promoting the planning and execution of emergency drills by all ministries and in all States/UTs	Recurring/Regular (RR) Carry out mass media campaigns Promote culture of disaster risk prevention, mitigation, and better risk management Promote attitude and behaviour change in the awareness campaigns/ IEC Strengthening network of civil society organizations for awareness generation about DRR and DM Medium Term (T2) Promote use of insurance/ risk transfer Promote Community Radio	Responsibility - Centre	Central/ State Agenc
HP SDMA/DDMAs, Revenue Dept.(DM), State level skill development agencies		HP SDMA, DDMAs Revenue [&PH, SDRF, Fire Services, Civil Defense, Police, RD & PRI	State	Central/ State Agencies and their Responsibility
• Conduct training programmes • Develop a team of Trainer-of-Trainers for different trades relevant to flood- resistant construction	Recurring/ Regular (RR) Joint planning and execution of emergency drills	Carry out mass media campaigns Promote culture of disaster risk prevention, mitigation, and better risk management Promote attitude and behaviour change in the awareness campaigns/ IEC Strengthening network of civil society organizations for awareness generation about DRR and DM Information on care and protection of disaster-affected animals Medium Term (T2) Promote use of insurance/ risk transfer Promote Community Radio	Responsibility - State Recurring/ Regular (RR)	

TIVON	Andrea and the second s	Central State	Auent ing and the	
Sub-Themanc		RESPO	RESPONSIBILITIES	
ALCA TOL DAV	Centre	Responsibility - Centre	State	Responsibility – State
Empowering women. marginalised. and persons with disabilities	MSJE, MWCD. NDMA, NIDM	Recurring/Regular (RK) Incorporating gender sensitive and equitable approaches in capacity development covering all aspects of disaster management	HP SDMA/ DDMAs, Reverue, HIPA and other state-level institutions, PRIs, ULBs	Reverue, HIPA and other state-level institutions, PRIs, ULBs institutions, PRIs, ULBs district, and iocal levels
Community- Based Disaster Management	NDMA. NIDM, MORD, MHUA	Recurring/ Regular (RR) Promotion, Guidance, and Support	HP SDMA/ DDMAs, Revenue and other state- level institutions, PRIs, ULBs	Recurring/ Regular (RR) Strengthen ability of communities to manage and cope with disasters based on a multi-hazard approach Training for PRI, SHG, NCC, NSS, Youth, local community organizations