Role and Responsibility

Sr. No	Stages	Disaster Management Authority / EOC	IMD	CWC	WRD
1	Monsoon Period	To arrange regular meeting with all concerned departments during Monsoon Period	Issue of weather bulletin for forecasting rainfall	To coordinate with the neighbouring states of Gujarat for rainfall and inflow forecast for inter state rivers. To issue inflow forecast and flood level forecast warning in the reservoir. Warning to be issued to the focal officer of the projects of the basin and concerned officers of WRD.	To coordinate with the concerned Water Resources officers neighbouring states in the event of Heavy rainfall in the catchement, release of water from the upstream dams along upstream reservoir position. To plan for operation of reservoir w.r.t. outflow from the reservoir to be decided and to inform concerned Revenue authority by way of Flood warning. Appropriate warning message to be sent to Revenue Dept an deemed fit for broadcasting on All India Radio and Doordarshan. Place the Disaster Management Plan 2021 on wrd.guj.nic.in for open access.
2	Heavy Rainfall		Issue of weather bulletin for forecasting rainfall of various durations Issue of Special Bullettins	To coordinate with the neighbouring states of Gujarat for rainfall and inflow forecast for inter state rivers. To issue inflow forecast and flood level forecast warning in the reservoir. Warning to be issued to the focal officer of the projects of the basin and concerned officers of WRD,	guidelines Emergency Action Plan for dams $(CDSO, CUD, DS, 01, y2, 0)$ in this record may be reformed
3	Reservoir Storage position				
	a. Storage more than 70% and upto 80% (Warning Stage)		-	-	To inform concerned District Adminstration falling in the
	b. Storage more than 80% and upto 90% (Alert Stage)		-	-	downstream likely flood affected village / town in writing for position of reservoir. Clearly mention the Storage percentage Warning stage on the Depatmental website wrd.guj.nic.in/d Open Access Reports.
	c. Storage more than 90% (High Alert)		-	-	

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Role Matrix : Responsibility Matrix for Various Departments during Monsoon 2023

Sr. No		Stages	Disaster Management Authority / EOC	IMD	CWC	WRD
	d.	Release of Flood Water from the Reservoir				Isssue the Flood warning before release of water from the reservoir to revenue authority / police dept concerned with downstream affected areas / village / town by the Focal O the Project / Basin in standard proforma stipulated in Disa Management Plan stating likely affecte villages / towns, q and time for release of water, warning signal etc. Concerned Executive Engineer of the dam shall inform appropriate decision to the Focal officer of the river ba The Focal officer in turn shall intimate to the District Collector and the Flood Control Cell (WRD) Gandhins The details of focal officer for the respective basins are provided in the Disaster Management Plan.
4		Main Rivers (Damanganga, Tapi, Narmada, Mahi, Sabarmati and Banas) Flowing at danger level			To coordinate with the neighbouring states of Gujarat for rainfall and inflow forecast for inter state rivers. To issue inflow forecast and flood level forecast warning in the reservoir. Warning to be issued to the focal officer of the projects of the basin and concerned officers of WRD.	To inform concerned District Adminstration / Police dept in the riverine areas with the details of location of the Gau Appropriate warning message to be sent to Revenue Dept deemed fit for broadcasting on All India Radio and Doordarshan. Concerned Executive Engineer of the dam shall inform appropriate decision to the Focal officer of the river ba The Focal officer in turn shall intimate to the District Collector and the Flood Control Cell (WRD) Gandhins The details of focal officer for the respective basins are provided in the Disaster Management Plan.

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Sr. No	Stages	Disaster Management Authority / EOC	IMD	CWC	WRD
5	Dam Failure	To keep constant watch over the situation and send Rapid action force or Airforce as per necessity in the flooded areas fo evacuation of the affected people.			In the event of breach in the embankment, heavy uncontrol leakages from spillway / gates - concerned revenue autho district administraion be informed immediately with likel affected areas. Dam authority should immediately inform Focal Officer and Senior WRD oficials too. Appropriate warning message to be sent to Revenue Dept deemed fit for broadcasting on All India Radio and Doordarshan. Concerned Executive Engineer of the dam shall inform appropriate decision to the Focal officer of the river b The Focal officer in turn shall intimate to the District Collector and the Flood Control Cell (WRD) Gandhin The details of focal officer for the respective basins ar provided in the Disaster Management Plan.
6	Disaster Preparedness for Flood	To finalise and review Disaster Management Plan for each Department	To issue weather bulletin	To issue inflow forecast / Level forecast for six rivers.	To implement model action plan as per Annex 3 A
		Warning			Inform Revenue Dept - Taluka level, District level and St Level intimation
		Alert			Inforrm Revenue Dept - Taluka level, District level and S Level intimation
		High Alert			Inform Revenue Dept - Taluka level, District level and St Level intimation- details like Release of Water to be mad- villages to be affected by concerned Focal / Sub focal Off
		Ready to Shift			Inform Revenue Dept, (Taluka level, District level and St Level intimation.
		Post Damage			Appropriate actions w.r.t Damage Control, Relief of Dam Irrigation Infrastructure
	Levels of Incidence	•			

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Sr. No	Stages	Disaster Management Authority / EOC	IMD	CWC	WRD
	Dam	To arrange emergency meeting with all line Department and intimate situation to all concerned. Maintain constant touch with Airforce, Army and Navy.	Provide information about probable rainfall in the area which may be affected due to emergency siuation of the dam.	Provide flood forecast and probable levels in the river.	Dam authority/operator keeps monitoring the dam situati continuously during monsoon. When any unusual condit incident is noticed the information regarding emergency communicated to the disaster management authorities an act to save the dam and minimize impact to life, property environment. CWC guidelines in this regard may be refe more details. Follow Rule levels as per Anexure 1 c (page 34) and Cir- clause 17 (p74) for filling of dams
Ri	ver / Canal / Drains				WRD Authorities act as per Chapter 4, (Maintanance of Embankments, p81) and Annexure 4-A (p82) covering maintainance of Flood Embankments. (In event of Drain Overflow or Breaches in banks - Concerned Executive Engineer shall act as Focal Offi Dy. Ex Engr as subfocal Officer)
Mild	Small Breaches in Canal, Small disturbance in Earthern Bunds, Slopes and Pitching	Warning			Timely repairs,
	Canal / Drain Inundation Indundation in 1 Village				Timely repairs
Medium					Inform Revenue Dept, (Taluka level, District level and S Level intimation Project / Scheme Exeutive Engineer to take appropriate a
	Heavy Inundataion More than 1 Village				Inform Revenue Dept, (Taluka level, District level and S Level intimation. Mechanical Unit Fighter Squad to alerted
Riverine Flooding					Inforrm Revenue Dept, (Taluka level, District level and S Level intimation). Mechanical Unit Fighter Squad to alerted
Major Major		Cracks, Failures			Inform Revenue Dept, (Taluka level, District level and S Level intimation). Central Designs Organisation Visit and Problem Solving and Field Officers
		Heavy Leakages			Inform Revenue Dept, (Taluka level, District level and St Level intimation.) Central Designs Organisation Visit and Problem Solving CDO/ Mechanical Wing and Field Officers

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Sr. No	Stages		Disaster Management Authority / EOC	IMD	CWC	WRD
			Mechanical Gate Problems			Inform Revenue Dept, (Taluka level, District level and Sta Level intimation.) Central Designs Organisation Visit and Problem Solving B Design Mechanical Wing and Field Officers
Coordination with 4	Coordination with Adjoining State				Coordinate with Water Resources Department, Forecasting and Monitoring data Sharing mechanism in place.	Coordinate with Central Water Commission Forecasting a Monitoring mechanism in place.
					Intimation to State Emergency Operations and Concerned Disaster officers of adjoining States.	Intimation to State Emergency Operations and Concerned Disaster officers of adjoining States.
Relief Measures						WRD Dept takes up relief measures for its Irrigation infrastructure. WRD Circle offices shall regularly sen report of the Flood Damages WRD infrastructure to O Flood Cell, Gandhinagar

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y of Disaster Response Departments - Monsoon 2023 (Water Year 2023-24)

Sr. No	Stages	Disaster Management Authority / EOC	Revenue Dept / EOC	Urban Authority	Roads and Building	Railway Authority	Home Dept	Energy
1	Monsoon Period	To arrange regular meeting with all concerned departments during Monsoon Period	relief measures. In demanding situation if deemed fit messages for	To take appropriate action for alerting and evacuating the people likely to be affected in urban areas in accordance with the warning and threat perception.	To take appropriate action for safety of bridge, causeways roads and traffic	To take appropriate action for safety of railway bridge, tracks and rail traffic.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure for maintaing power supply in the affected areas.
2	Heavy Rainfall		To take appropriate action for alerting and evacuating the people likely to be affected in accordance with the warning and threat perception along with relief measures. In demanding situation if deemed fit messages for broadcasting on All India Radio and Doordarshan. Alert Central Assistance agencies on need basis.	As above and be prepared for responding to likely Flooding situation	As above	As above	As above	As above and be prepared for responding to likely Flooding situation
3	Reservoir Storage position	1						
	a. Storage more than 70% and upto 80% (Warning Stage)		for awareness of the affected	Warning message to Municipal Commissioners for awareness of the affected people				
	b. Storage more than 80% and upto 90% (Alert Stage)		lowerance of the attacted neonle	Alert message to Municipal Commissionerss for awareness of the affected people				
	c. Storage more than 90% (High Alert)		High Alert message to collectors for awareness of the affected people	High Alert message to Municipal Commissionerss for awareness of the affected people				

Sr. No	Stages	Disaster Management Authority / EOC	Revenue Dept / EOC	Urban Authority	Roads and Building	Railway Authority	Home Dept	Energy
	Release of Flood d. Water from the Reservoir		To take appropriate action for alerting and evacuating the people likely to be affected in accordance with the warning and threat perception. In case of natural calamities and grave emergencies liasion with Airforce authority, Military authoirity for thier assistance	To take appropriate action for alerting and evacuating the people likely to be affected in urban areas in accordance with the warning and threat perception.	To take appropriate action for safety of bridge, causeway roads and traffic	To keep constant watch over the situation and mobilse teams.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure for maintaining power supply in the affected areas.
4	Main Rivers (Damanganga, Tapi Narmada, Mahi, Sabarmati and Banas) Flowing at danger level	,	To take appropriate action for awarness, alerting the people likely to be affected in accordance with the threat perception.	To take appropriate action for awarness, alerting the people likely to be affected in accordance with the threat perception.	To take appropriate action for safety of bridge, causeway, roads and traffic	To take appropriate action for safety of railway bridge, tracks and rail traffic.	To take appropriate action in consultation with revenue dept.	

Sr. No	Stages	Disaster Management Authority / EOC	Revenue Dept / EOC	Urban Authority	Roads and Building	Railway Authority	Home Dept	Energy
5	Dam Failure	force or Airforce as per	To take appropriate action for awarness, alerting the people likely to be affected in accordance with the threat perception.	To take appropriate action for awarness, alerting the people likely to be affected in accordance with the threat perception.	To take appropriate action for safety of bridge, causeway, roads and traffic	To take appropriate action for safety of railway bridge, tracks and rail traffic.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure for maintaining power supply in the affected areas.
6	Disaster Preparedness for Flood	To finalise and review Disaster Management Plan for each Department	as per Annex 3 A of WRD Disaster Management Plan 2021. Refer the District Disaster	Disaster Management Plan 2021. Refer the District Disaster	To implement model action plan as per Annex 3 A of WRD Disaster Management Plan 2021. Refer the District Disaster Management Plan of respective districts.		plan as per Annex 3 A of WRD Disaster Management Plan 2021. Refer the District Disaster Management Plan of	To implement model action plan as per Annex 3 A of WRD Disaster Management Plan 2021. Refer the District Disaster Management Plan of respective districts.
		Warning						
			Preparatory actions - Logistics readiness				Appropriate actions as per their protocol and Revenue Dept instructions	
		High Alort	Public intimation, inter- departmental co-ordination				Appropriate actions as per their protocol and Revenue Dept instructions	
		Ready to Shift						
		Post Damage	Relief, Rescue, Rehabilitation related actions	Relief, Rescue, Rehabilitation related actions	Damage Control, Repairs	Damage Control, Repairs	Rescue, Relief, Security related actions	Damage Control, Repairs
	Levels of Incidence	1						

Sr. No	Stages	Disaster Management Authority / EOC	Revenue Dept / EOC	Urban Authority	Roads and Building	Railway Authority	Home Dept	Energy
Dam		To arrange emergency meeting with all line Department and intimate situation to all concerned. Maintain constant touch with Airforce, Army and Navy.	To take appropriate action for alerting and evacuating the people likely to be affected in accordance with the warning and threat perception. In case of natural calamities and grave emergencies liasion with Airforce authority, Military authoirity for their assistance	To take appropriate action for alerting and evacuating the people likely to be affected in urban areas in accordance with the warning and threat perception.	To take appropriate action for safety of bridge, causeway roads and traffic	To keep constant watch over the situation and mobilise teams.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure for maintaing power supply in the affected areas.
River / Canal / Drains								
Mild	Small Breaches in Canal, Small disturbance in Earthern Bunds, Slopes and Pitching	Warning		To take appropriate action for awareness, Alerting and the people likely to be affected in accordance with the threat perception.				
	Canal / Drain Inundation Indundation in 1 Village							
Medium			Public intimation, inter- departmental co-ordination, Relief as deemed fit	To take appropriate action for awarness, alerting and the people likely to be affected in accordance with the threat perception.	Ensure accessiblity to the Village Gamtal	•••••••••••••••••••••••••••••••••••••••	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure.
	Heavy Inundataion More than 1 Village		Assesment and Relief coordination	To take appropriate action for awarness, alerting and the people likely to be affected in accordance with the threat perception.	Ensure accessiblity to the Village Gamtal	To take appropriate action for safety of railway bridge, tracks and rail traffic.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure.
Riverine Flooding			Assesment and Relief coordination	To take appropriate action for awarness, alerting and the people likely to be affected in accordance with the threat perception.	Ensure accessiblity to the Village Gamtal	To take appropriate action for safety of railway bridge, tracks and rail traffic.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure.
Major	Major	Cracks, Failures	Assesment and Relief coordination	To take appropriate action for awareness, alerting and the people likely to be affected in accordance with the threat perception.	Ensure accessiblity to the Village Gamtal	To take appropriate action for safety of railway bridge, tracks and rail traffic.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure.
		Heavy Leakages	Assesment and Relief coordination	To take appropriate action for awareness, alerting and the people likely to be affected in accordance with the threat perception.	Ensure accessiblity to the Village Gamtal	To take appropriate action for safety of railway bridge, tracks and rail traffic.	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure.

Sr. No		Stages	Disaster Management Authority / EOC	Revenue Dept / EOC	Urban Authority	Roads and Building	Railway Authority	Home Dept	Energy
			IMechanical Gate Problems	Assesment and Relief coordination	To take appropriate action for awareness, alerting and the people likely to be affected in accordance with the threat perception.	Ensure accessibility to the Village Gamtal	for safety of railway bridge,	To take appropriate action in consultation with revenue dept.	To take appropriate action for safety of transmission infrasructure.
Coordination with Adjoining State			Coordinate response with various agencies						
Relief Measures				Revenue dept shall Coordinate					