

# District Disaster management Plan - 2024



District Emergency Operation center  
Collector office, Tapi-Vyara

Phone:- 02626-223332, 1077 (toll free)

**Dr. Vipin Garg (IAS)**  
**Collector & DM**  
**Tapi-Vyara**



**Collector Office**  
**District Seva sadan**  
**District Emergency Operation**  
**center Tapi-Vyara**

## **Prologue**

Many areas of State become victim of several Disasters such as floods, hurricanes, droughts, industrial accidents and road accidents. Tapi District too is one of the many disaster prone Districts. As a result, such disasters often have converted district's development of years into destruction. These accidents or disasters cannot be prevented to a great extent, but the extent of the damage can be reduced. Hence with the holistic intention of saving precious human life, and with the approach of Pre-preparedness against disasters for the next monsoon, I am, glad to present before you DDMP-2024

We hope that, District Disaster management Plan would prove to be the guideline for the District Disaster Management System and various task forces in taking immediate measures in pre-disaster, during disaster and post disaster period.

Date:- 25/04/2024

  
Collector & District Magistrate  
Tapi-Vyara

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## **List of Abbreviation**

<b>Sr. No</b>	<b>Abbreviation</b>	<b>Full form of Abbreviation</b>
1	AIDS	Acquired Immune Deficiency Syndrome
2	APMC	Agricultural Produce Market Committee
3	AE	Assistant Engineer
4	AH	Animal Husbandry
5	ATI	Administrative Training Institute
6	ATS	Anti Terrorist Squad
7	ATVT	ApnoTaluko Vibrant Taluko
8	BPL	Below Poverty Line
9	BRC	Block Resource Centre
10	CBO	Community Based Organization
11	CDHO	Chief District Health Officer
12	CDPO	Child Development Project Officer
13	CHC	Community Health Center
14	CRC	Community Resource Centre
15	CRF	Calamity Relief Fund
16	CSO	Civil Society Organization
17	DCMG	District Crisis Management Group
18	DDMA	District Disaster Management Authority
19	DDMP	District Disaster Management Plan
20	DDO	District Development Officer
21	DEOC	District Emergency Operation Centre
22	DGVCL	Dakshin Gujarat Vij Company Limited
23	DISH	Directorate of Industrial Safety and Health
24	DM	Disaster Management
25	DPO	District Project Officer
26	DRM	Disaster Risk Management
27	DRR	Disaster Risk Reduction
28	DSO	District Sports Officer
29	DSP	Deputy Superintendent of Police
30	Dy. Eng.	Deputy Engineer
31	Dy SP	Deputy Superintendent of Police
32	EMRI	Emergency Management & Research Institute
33	ESR	Elevated Surface Reservoir
34	EWS	Early Warning System
35	Ex. Eng.	Executive Engineer
36	FCI	Food Corporation of India
37	FPS	Fair Price Shop
38	FWP	Food for Work Program
39	GDCR	General Development Control Regulation

40	GEB	Gujarat Electricity Board
41	GIDM	Gujarat Institute of Disaster Management
42	GLR	Ground Level Reservoir
43	GMB	Gujarat Maritime Board
44	GoI	Government of India
45	GPs	Gram Panchayats
46	GSDMA	Gujarat State Disaster Management Authority
47	GWSSB	Gujarat Water Supply and Sewerage Board
48	HFA	Hyogo Framework for Action
49	HHS	Households
50	HPC	High Powered Committee
51	HQ	Head Quarter
52	HRVC	Hazard, Risk, Vulnerability and Capacity
53	IAY	Indira AawasYojana
54	IMA	Indian Medical Association
55	ICS	Incident Commander
56	ICS	Incident Command System
57	IDNDR	International Decade for Natural Disaster Reduction
58	IEC	Information Education Communication
59	IMD	Indian Meteorological Department
60	ISDR	International Strategy for Disaster Reduction
61	ISR	Institute for Seismic Research
62	ITI	Industrial Training Institute
63	IWMP	Integrated Watershed Management Program
64	LCMG	Local Crisis Management Group
65	LO	Liaison Officer
66	MAH	Major Accident Hazard
67	MGNREGA	Mahatma Gandhi National Rural Employment Guarantee Act
68	MGNREGS	Mahatma Gandhi National Rural Employment Guarantee Scheme
69	MHA	Ministry of Home Affairs
70	MLA	Member of Legislative Assembly
71	Mm	Mili Meter
72	MP	Member of Parliament
73	NAPCC	National Action Plan on Climate Change
74	NCC	National Cadets Corps
76	NCCF	National Calamity Contingency Fund
77	NDM	National Disaster Management
78	NDMA	National Disaster Management Authority
79	NDRF	National Disaster Response Force
80	NDRF	National Disaster Response Force
81	NEC	National Executive Committee
82	NFSM	National Food Security Mission
83	NGO	Non Government Organization
84	NIDM	National Institute of Disaster Management

85	NRDWP	National Rural Drinking Water Program
86	NRHM	National Rural Health Mission
87	NSS	National Service Scheme
88	NYK	National Yuva Kendra
89	PCPIR	Petroleum Chemical and Petrochemical Special Investment Region
90	PDS	Public Distribution System
91	PHC	Primary Health Center
92	PI	Police Inspector
93	PMGY	PradhanMantriGramodyanYojna
94	PRIs	Panchayati Raj Institutions
95	R & R	Recovery & Reconstruction
96	R&B	Roads & Buildings
97	RTO	Regional Transport Office
98	SC	Scheduled Caste
99	SDM	Sub District Magistrate
100	SDMA	State Disaster Management Authority
101	SDRF	State Disaster Response Fund
102	SDRN	State Disaster Response Network
103	SE	Superintending Engineer
104	SEOC	State Emergency Operation Centre
105	SFO	Sub Focal Officer
106	SEZ	Special Economic Zone
107	SHGs	Self Help Groups
108	SMC	School Management Committee
109	SMS	Short Message Service
110	SOP	Standard Operating Procedure
111	SRPF	State Reserve Police Force
112	SRT	Special Response Team
113	SSA	SarvaShikshaAbhiyan
114	ST	Scheduled Tribe
115	S& R	Search and Rescue
116	Supt. Eng.	Superintendent Engineer
117	SWO	Social Welfare Officer
118	TDMA	Taluka Disaster Management Authority
119	TDMC	Taluka Disaster Management Committee
120	TDMP	Taluka Disaster Management Plan
121	TDO	Taluka Development Officer
122	TEOC	Taluka Emergency Operation Centre
123	THO	Taluka Health Officer
124	TNA	Training Needs Assessment
125	TSC	Total Sanitation Campaign
126	TSO	Taluka Supply Officer

# Chapter 1:

## Introduction:

Disaster management is a process or strategy that is implemented when any type of catastrophic event takes place. Sometimes referred to as disaster recovery management, the process may be initiated when anything threatens to disrupt normal operations or puts the lives of human beings at risk. Governments on all levels as well as many businesses create some sort of disaster plan that make it possible to overcome the catastrophe and return to normal function as quickly as possible.

A disaster is an event triggered by natural manmade causes that lead to sudden disruption of normalcy causing widespread damage to life and property. The High Power Committee of Government of India has identified 30 major and minor disasters, which frequently occurs in our country. It is now a recognised fact that while natural disasters is primarily due to imbalance in the nature but losses due to them on account of human feelings. Human sufferings and misery from a large number of natural disasters can be minimised by taking timely action, preventing mechanisms and undertaking capital works of long and medium terms.

The district administration is also required to prepare a District Disaster Management Plan based upon the type of disasters likely to affect the district. The actual day –to day function of administering preparedness, response, and mitigation is the responsibility of the District Collector/ Magistrate/ Deputy Commissioner along with the DDMC.

Recognizing the fact that most tasks and actions before and following a disaster are common at the district level, the Tapi district administration has used a multi-disaster approach (all disasters covered by one plan) while developing disaster management plan for the district.

### **1.1: Aims and Objectives**

- To determine the risk and vulnerabilities associated with various hazards.
- To identify the hazardous areas and to create appropriate strategies to address the issues in these areas
- To develop appropriate strategies for effective prevention and mitigation of disasters
- To build the capacity of people working in the field of disaster management
- To aware the citizens
- To define and assign roles and responsibilities to various stakeholders associated with disaster management for pre disaster and post disaster phases.
- To develop and maintain arrangements for accessing resources, equipment, supplies and funding in preparation for disasters
- To defines the risks and Vulnerabilities of the citizens of the district to different disasters.
- To Identifies the private and public sector parties with prime and supporting responsibilities to reduce or negate these vulnerabilities
- To Mainstreaming disaster management concerns into the developmental planning process
- To Defines actions to be taken by these parties to avoid or mitigate the impact of possible disasters in the district

## **1.2: Evolution of the Plan**

Gujarat Act No. 20 of 2003, THE GUJARAT STATE DISASTER MANAGEMENT ACT, 2003 clearly stated to mandatory provision of the DM plan as per the following clause & sections

Clause 15 of Chapter VI

1. The authority shall develop or cause to be developed guidelines for the preparation of disaster managements plans and strategies and keep them update and shall assist such departments of Government, local authorities and person, as may be specified by the authority in preparation of plans and strategies and coordinate them
2. The plan preparing authority while preparing the plan under subsection (1) shall make suitable provisions in the plan after considering the following namely:
  - (a) The types of disaster that may occur and their possible effects;
  - (b) The communities and property at risk;
  - (c) Provision for appropriate prevention and mitigation strategies;
  - (d) Inability to deal with disasters and promote capacity building;
  - (e) The integration of strategies for prevention of disaster and mitigation of its effects with development plans, programme and such other activities in the State;
  - (f) Provision for assessment of the nature and magnitude of the effects of a disaster;
  - (g) Contingency plans including plans for relief, rehabilitation and reconstruction in the event of a disaster, providing for-
  - (i) Allocation of responsibilities to the various stakeholders and coordination in carrying out their responsibilities;
  - (ii) Procurement of essential goods and providing essential services;
  - (iii) Establishment of strategic communication links;
  - (iv) Dissemination of information; and
  - (v) Other matters as may be provided for in the regulations.
  - (h) Any other matter required by the Authority.

(3) The Authority shall prepare, or cause to be prepared, and maintained a master plan for the State/District

## **1.3: How to use the plan**

The present plan is not intended to provide comprehensive explanations and background information about a disaster, or serve as a training manual on how to respond to a disaster or conduct a disaster related task. The approach taken is that plans and SOPs should be limited to the minimum information need to respond to a specific disaster or undertake a disaster related task. Steps to address disaster specific requirements can be covered in procedures related to actions. This approach does require that task forces develop disaster specific procedures where appropriate.

In other words, this plan is intended for use by persons who are technically competent in the tasks or responsibilities set out in each plan. The SOPs are intended to be used by persons who are unfamiliar with disaster management topics but are intended to be task specific and not as replacements for full plans.

## **1.4: Authority for the plan**

Gujarat state Disaster Management Authority shall be primarily responsible for promoting an integrated and coordinated system of disaster management including prevention or mitigation of disaster by the State, local authorities, stake holders and communities, The Authority shall- act as the central planning, coordinating and monitoring body for disaster management and post-disaster reconstruction, rehabilitation, evaluation, and assessment. Assist the State Government in formulation of policy relating to emergency relief notwithstanding that the implementation of emergency relief shall be the responsibility of the Revenue Department and other departments of the Government. Inform the State Government and departments of Government on progress and problems in disaster management. Promote general education and awareness on disaster management, emergency planning and response and matters incidental there to The State Government, the Collector, concerned officers of the State Government and the local authorities in the State shall give such assistance and support to the Authority in performing its functions as may be required by the Authority.

At the district level, District Collector is responsible for responding any disaster situation in consultation with other line departments at district HQ are responsible to deal with all phases of disaster management within district...

## **1.5: Stakeholders and their responsibilities**

At the district level, District Collector is responsible for responding any disaster situation in consultation with other line departments at district HQ are responsible to deal with all phases of disaster management within district.

Technical institutions, NGOs, Local authority, private sector, Community groups, volunteer agencies and citizens.

According to Disaster Management Act-2003 Stakeholders and their responsibilities are:

### **District Collector:**

During the period, an area is an affected area the Collector may issue directions to the officers of the departments of the Government and the local authority in the affected area, to provide emergency relief in accordance with the disaster management plans.

The District Collector may-

1. Make arrangements for release and use of available resources
2. Control and restrict traffic to, from and within the area affected by a disaster
3. Control and restrict the entry into, movement within and departure from any disaster area or part of it
4. Remove debris
5. Conduct search and rescue operations
6. Make arrangements for the disposal of the unclaimed dead body, by appropriate means
7. Provide alternative shelter
8. Provide food, medicines and other essentials
9. Require experts and consultants in the matters relevant to the disaster to provide relief under his direction and supervision
10. To take possession and make use of any property, vehicles, equipment, buildings and means of communication on such terms and conditions as may be prescribe
11. Procure exclusive or preferential use of amenities as and when required

12. Construct temporary bridges or other structures
13. Demolish unsafe structures which may endanger the public
14. Coordinate with non-governmental organizations and ensure that such entities carry out their activities in an equitable manner
15. Disseminate information to the public to deal with the disaster
16. Direct and compel evacuation, of all or part of the population from any affected area for the purpose of preservation of life and for such evacuation, and for such evacuation use such force as may be necessary
17. authorize any person, to make any entry into any place, to open or cause to be opened, any door, gate or other barrier, if he considers such an action is necessary for preservation of life and property, if the owner or occupier is absent, or being present, refuses to open such door, gate or barrier

**The Collector may exercise the powers contained in subsection (2) to the extent only that this is necessary for the purpose of -**

- (a) Assisting and protecting the community
- (b) Providing relief to the community
- (c) Preventing or combating disruption
- (d) Dealing with the destructive and other effects of the disaster

The Collector may issue such directions to any person or government agency and take such other steps, as may be necessary to curtail the escalation of the disaster or to alleviate, contain or minimize the effects of disaster.

## **1.6: Role and responsibility**

### **The Collector**

- Facilitate and, coordinate with, local Government bodies to ensure that pre and post - disaster management activities in the district are carried out.
- Assist community training, awareness programmes and the installation of emergency facilities with the support of local administration, non-governmental organizations, and the private sector.
- Take appropriate actions to smoothen the response and relief activities to minimize the effect of disaster.
- Recommend CoR and State Government for declaration of disaster.

### **Local Authority**

- Provide assistance to GSDMA, CoR and Collector in disaster management activities.
- Ensure training of its officers and employees and maintenance of resources so as to be readily available for use in the event of a disaster.
- Ensure that all construction projects under it conform to the standards and specifications laid down.
- Each department of the Government in a district shall prepare a disaster management plan for the district. Carry out relief, rehabilitation and reconstruction activities in the affected area within its jurisdiction.

### **Private Sector**

- The private sector should ensure their active participation in the pre-disaster activities in alignment with the overall plan developed by the GSDMA or the Collector.



- They should also adhere to the relevant building codes and other specifications, as may be stipulated by relevant local authorities.

### **Community Groups and Voluntary agencies**

- Local community groups and voluntary agencies including NGOs should actively assist in prevention and mitigation activities under the overall direction and supervision of the GSDMA or the Collector.
- They should actively participate in all training activities as may be organized and should familiarize themselves with their role in disaster management

### **Citizen**

It is a duty of every citizen to assist the Collector or such other person entrusted with or engaged in disaster management whenever his aid is demanded generally for the purpose of disaster management.

## **1.7: Scope of the Plan:**

The District Disaster Management and Response Plan for Tapi District have been prepared for its operation by various departments and agencies of the district and other Non-governmental Agencies expected to participate in disaster management. This plan provides for Vulnerability Assessment and Risk Analysis, Preventive Measures, Mainstreaming disaster management concerns into Developmental Plans, Preparedness Measures, Response Mechanism, and Partnership with Stakeholders, Financial Arrangement, Roles and Responsibilities of the various agencies interlinks in disaster management and the scope of their activities. An elaborate inventory of resources has also been formalized.

## **1.8: Approach to Disaster Management**

The Government of Gujarat takes an inclusive approach to disaster management. Disaster impact decrease is divided into three broad areas:

### **Warning, Relief and Recovery**

Necessary actions are intended to eliminate the loss of life and property and hardship due to disasters. Plans and SOPs at District level should provide as seamless as possible provision of warning, relief and recovery assistance to avoid or reduce losses and hardship.

The focal point for early warning, relief and recovery is the District Collector, who directs and coordinates these efforts within the district. The Collector is also answerable for coordinating warning, relief and recovery with similar activities in neighboring districts and with the Revenue Department and GSDMA.

The Collector is further responsible for developing long-term relief, recovery and rehabilitation plans during the course of a disaster. These plans will include steps to reduce disaster impact in the future and be coordinate with the GSDMA in terms of policy and implementation.

### **Mitigation, Preparedness and Prevention**

Mitigation, preparedness and prevention actions are to be taken before a disaster to reduce the probability of a disaster (risk reduction) or the level of damage (vulnerability reduction) expected from a possible disaster. Vulnerability reduction is given priority over a risk reduction. The district can avail itself of four mechanisms (singularly or together) to reduce risk and vulnerability;

- Long term planning for mitigation, preparedness and prevention investments in the district,
- Enforcement of regulations, particularly building and safety codes and land use plans,
- Review and evaluation of development plans and activities to identify ways to reduce risks and vulnerability, and,
- Capacity building including warning, the provision of relief and recovery assistance and community-level identification of risk and vulnerability

**The overall approach to disaster management is based on six elements;**

1. Precise risk and Vulnerability assessment
2. Planning and efficient allocation of resources,
3. Capacity building and training
4. Provision of ample resources
5. The assignment of disaster management roles and responsibilities which correspond to normal roles and responsibilities (if possible) and,
6. Use of diverse legal and operational mechanisms to accomplish disaster management objectives

Base on the interim assessment of risk and vulnerabilities, the District will focus on the following areas for mitigation, preparedness and prevention;

- Resilience of lifeline systems (water, power and communications)
- Reduction in disaster impact on health care facilities, schools and roads
- Vulnerability reduction in flood-prone areas
- Vulnerability reduction to high winds
- Improvement of off-site Preparedness near industrial sites.

### **1.9: Finance**

The finance arrangement as per the fund granted by GSDMA / State nodal agencies to the district

District Collector has authorities to distribute / impart the fund to the counter partners of Disaster management in the District as per required activities, according to the instructions of Government of Gujarat.

The Collector, assisted by the District Development Officer, is responsible for developing plans and activities to effect mitigation, preparedness and prevention using the mechanism noted above

### **1.10: Plan review and updation**

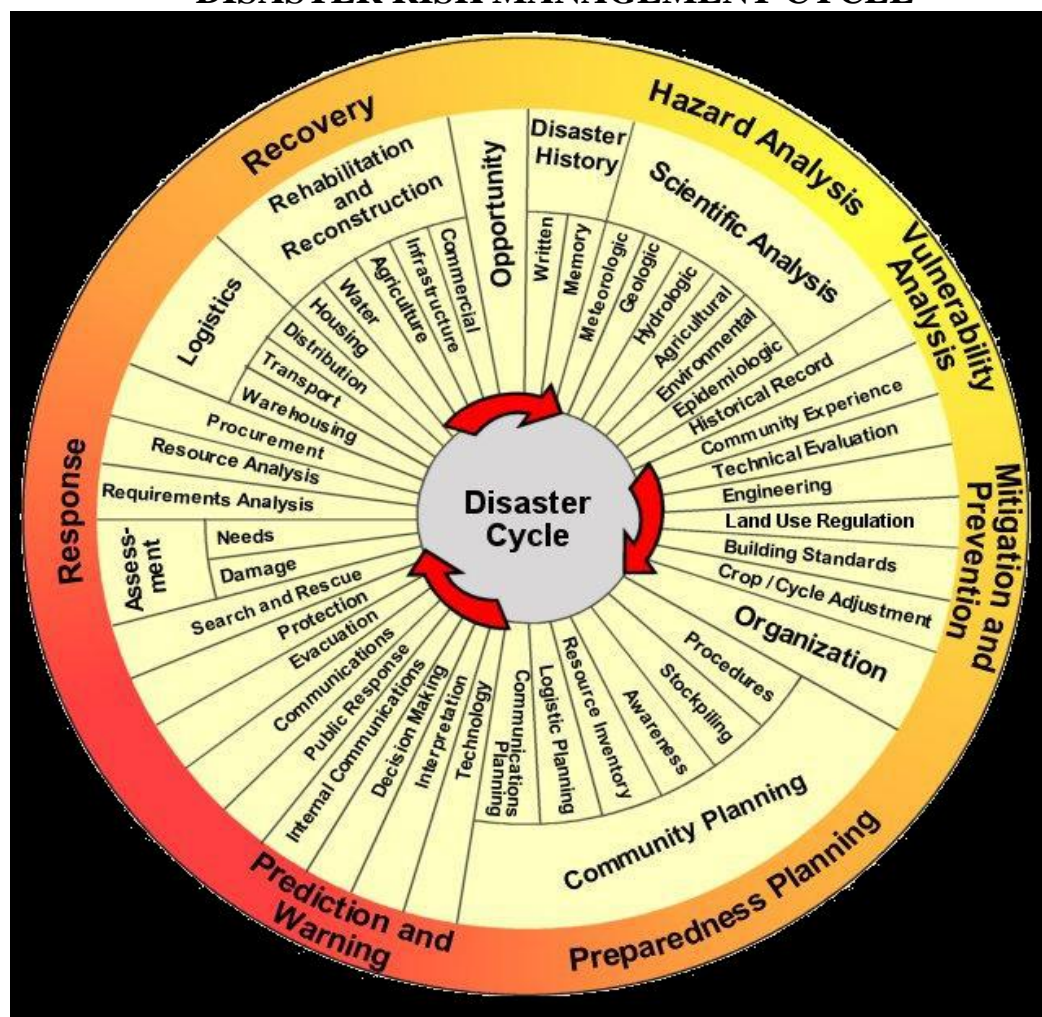
The District Collector is responsible for the preparation and revision of the District Disaster Management Plan in collaboration with the line departments and other organizations in the district.

Plan maintenance is a dynamic process of updating the plan on a periodic basis. The backbone of maintaining the plan is carrying out mock drills and updating the plan based on the lesson learnt as an outcome of the mock exercise, which consists of identifying the gaps and putting in place a system

to fill the same. The District Disaster Management Plan shall be reviewed and updated regularly by annually/half yearly and updated

- When significant changes in the nature of any hazards
- Lessons learnt following any major disaster or
- When there is any significant change to organization or responsibility of primary members of the task forces defined in the plan.
- DDMC shall compile its learning and proposed new mechanisms for improvement of the capacity to deal with disasters
- Drills and Rehearsals
- Recommendations from all line Depts. in their Report
- Lessons learnt from any disaster event in other district and state
- Directions from National Disaster Management Authority, GSDMA, Government of Gujarat, Revenue Department etc.

### DISASTER RISK MANAGEMENT CYCLE



## Chapter 2:

### Hazard Vulnerability and Risk Assessment:

#### Risk and Vulnerability Ranking-Analysis

All events or activities carry some risk and are associated with some level of vulnerability. Risk and vulnerability ranking is the process of assigning scores to the risk and possible impact of hazards to be able to compare the likely vulnerability and make informed management decisions about which hazards are of greatest concern and when planning and preparation efforts should be directed. A crude risk and vulnerability ranking process can be accomplished in five steps.

- Tapi District is in Seismic zone III so as it is in Moderate Risk zone, the 2001 Earthquake has not caused much devastating effect, even it has not coastal areas so the vulnerability from Tsunami or Cyclone is even less. Seasonal flood is affecting Tapi regularly but the effect of flood is Marginal. In sort in Tapi district particularly no major incident has been taken place.

#### Hazard Risk Vulnerability Assessment (HRVA)

Complete the hazards column for the following table. Typical hazards have already been identified, but these should be confirmed at this step and additional hazards added as appropriate.  
Risk and Vulnerability Analysis-TapiDistrict

**Table No.: 2**

Hazard	Probability	Impact	Vulnerability Rating (Probability times Impact)	Specific Locations and populations of concern
Earthquake (resulting in damage)	3	5	light-9	Uchchhal, Nizar, Songadh, Vyara, Valod, Dolvan, Kukarmunda
High Wind (Cyclone)	2	3	Low-4	Uchchhal, Nizar, Songadh, Vyara, Valod, Kukarmunda, Dolvan
Sea Surge (Cyclone)	-	-	-	-
Flood	5	5	Hgh -16	Nizar, Valod, Dolvan, kukarmunda
Industrial Accident	2	1	Low-2	Vyara, Songadh, valod
Drought	2	2	Low-4	Nizar, Uchchhal, Songadh
Heat wave	3	2	Low-6	Uchchhal, Nizar, Songadh, Vyara, Valod, Dolvan,kukarmunda
cold wave				
Landslides Mudflows	1	1	Low-1	
Dam Failure	1	1	Low-1	Ukai songadh

Mine fires/collapse	2	1	Low-2	Songadh,uchchhal
Road/rail/air accident	5	3	High-25	Vyara, Songadh, Uchchhal, valod
Oil spill & Road (marine)	2	3	Low-2	Vyara, Songadh,uchchhal
Boat sinking	-	-	-	-
Building collapse	1	2	Low-2	Nizar, songadh, Vyara valod
Communal Disease (epidemics)	1	1	Low-1	All Taluka
Food poisoning	1	1	Low-1	Uchchhal, Nizar, Songadh, Vyara, Valod, Dolvan,kukarmunda
Animal disease (epidemics)	1	1	Low-1	Uchchhal, Nizar, Songadh, Vyara, Valod, Dolvan,kukarmunda
Terrorism (consequences)	-	-	-	-
Critical Infrastructure Failure (e.g. extended power outage)	1	3	Low-3	Ukai Dam
Civil Unrest	1	1	Low-1	
WAR	-	-	-	-
Tsunami	-	-	-	-
Nuclear Emergency	5	5	16 high	Songadh, Vyara, Valod

Note: For the understanding of Table: 7 there is more information are given in respective table No. 8,9, and 10.

Assess the probability-or "livelihood" of each hazard by reaching a consensus on probability and then assign each hazard a "Probability Level," as indicated in the following table. Enter the score for each hazard in the probability column of the table in.

**Table No. 3**  
**Probability**

Probability	Score	Description
Almost certain	5	A regular event, on the average at least once in a 12 month period
Likely	4	Will occur at least once every two years.
Moderate	3	Will occur at least once every 5 years.
Unlikely	2	Will occur sometime in a 25 years period.
Rate	1	Can be expected to occur sometime in a 50 to 100 year period

### **Assign the Impact Ratings**

Assess the potential magnitude or impact of each hazard and assign each an "Impact Level" as in the following table. Enter the impact score for each hazard in the table.

**Table No. 4**  
**Impact Ratings**

<b>Impact</b>	<b>Scope</b>	<b>Description</b>
Catastrophic	5	Massive insecurity, substantial loss of life likely. Large and generalized assistance urgently needed for large segments of population. Additional management, administrative, and technical expertise urgently needed. Large volumes of materials inputs needed.
Major	4	Security threatened for large segments of population; substantial impacts on vulnerable groups likely. Some loss of life likely. Life-saving programs likely needed to handle impact of emergency situation. Large volumes of material inputs and additional administrative staff and technical expertise likely to be needed.
Moderate	3	Security is threatened for potential target groups, some interventions may be needed, particularly for groups who likely face increase in vulnerability. Organization can likely respond with existing country/regional management structures.
Minor	2	Momentary insecurity local groups able to respond adequately to those in need. Some technical assistance by organization may be helpful to local respondents, although not urgently needed.
Insignificant	1	Little or no significant change in conditions, no expected loss of life, injuries or significant loss of property for usual target groups as the result of the hazard Normal operations continue.

### **Assign the "Vulnerability" Ranking**

Multiply the probability and the impact scores in the table in Step 1. The resulting score indicates crude vulnerability. Scores above 15 indicate high vulnerability; scores between 7 and 15 indicate medium vulnerability and scores below 7 indicate low vulnerability.

**Table No.5**  
**Vulnerability" Ranking**

Probability Rating: Class and (score)	Impact Rating: Class and (score)				
	<b>Insignificant (1)</b>	<b>Minor (2)</b>	<b>Moderate (3)</b>	<b>Major (4)</b>	<b>Catastrophic (5)</b>
Almost certain (5)	Low-5	Moderate - 10	Moderate - 15	High-20	High-25
Likely (4)	Low-4	Moderate-8	Moderate - 12	High-16	High-20
Moderate (3)	Low-3	Low-6	Moderate - 9	Moderate - 12	Moderate -15
Unlikely (2)	Low-2	Low-4	Low-6	Moderate - 8	Moderate -18
Rare (1)	Low-1	Low-2	Low-3	Low-4	Low-5

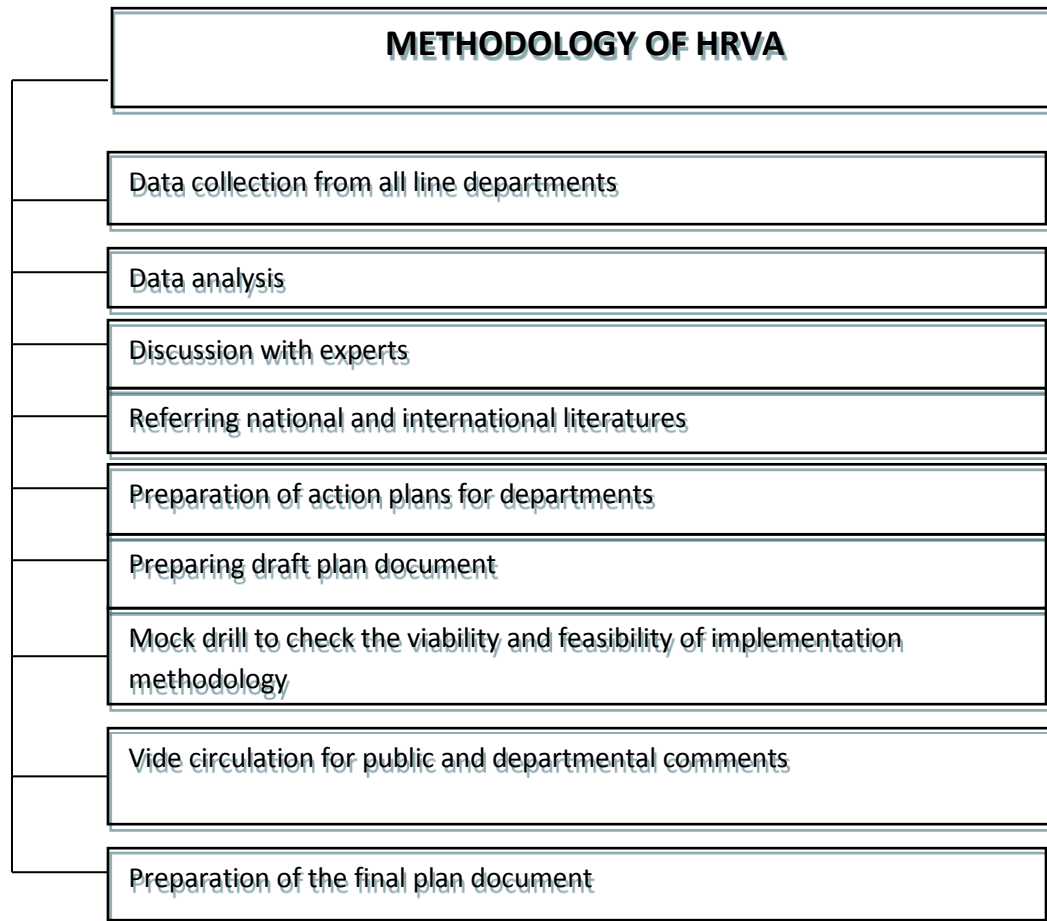
These three classes related to the immediate vulnerability to disaster and provide guidance on disaster response planning. Assessing risk and vulnerability to low likelihood but high impact hazards (e.g., earthquakes) requires a different, more long-term focused, assessment process.

Note that the rating process presumes that:

- Populations are better able to respond to disaster which more likely and do not have severe (major) impacts and,
- Steps taken to prepare for moderate or high vulnerability events will also improve the ability to respond to low vulnerability events.

The divisions between low, moderate and high crude vulnerability can be changed but should be used consistently for all similar assessments in the state.

### **Tool and methodology used for HRVA**



## **List of hazards with probability (frequency and magnitude) to be addressed in this plan**

### **Probability of Occurrence of disaster**

Type of Hazard	Time period											
	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Earthquake												
Cyclone												
Flood												
Tsunami												
Fire												
Nuclear Emergency												

### **Identify Areas with Highest Vulnerability**

Once vulnerability ranks have been identified, the locations and populations considered most vulnerable should be identified. This aids in knowing where disaster assistance may be most needed, as well as providing a quick indication of where vulnerability reduction efforts could be most productive. Note that vulnerability reduction can include education, structural measures, and non-structural measures like evacuation planning. Where possible, the areas of high vulnerability should be mapped and included in disaster planning documents.

### **Outcome**

Hazards are defined as “Phenomena that pose a threat to people, structures or economic assets and which may cause a disaster. They could be either man-made or naturally occurring in our environment.” A disaster is the product of a hazard coinciding with a vulnerable situation, which might include communities, cities or villages. Vulnerability is defined as “the extent to which a community, structure, service or geographical area is likely to be damaged or disrupted by the impact of particular hazard, on account of their nature, construction and proximity to a hazardous terrain or disaster prone area.

### **Hazard analysis:**

A detailed analysis of the hazards likely to impact the state will be carried out by the Department of Disaster Management, in consultation with the DMC of the state H.C.M. RIPA and experts from the field. Hazard assessment is concerned with the properties of the hazard itself. The Vulnerability Atlas of Gujarat, developed by BMTPC, Govt of India, will be used as the baseline for all analyses. The State Disaster Management Authority shall take all appropriate steps to complete a comprehensive hazard assessment of the State.



## **1. Earthquake**

The District is located in Zone-III of seismic vulnerability as captured in the Vulnerability Atlas. While earthquakes cannot be predicted, a detailed mapping of seismic fault systems and seismic source regions, quantification of probability of experiencing various strengths of ground motion at a site in terms of return period for intensity will be carried out and appropriate regulations put in place to decrease the vulnerability of built environment.

Different types of ground do shake with different severity in an earthquake. Softer soils and those with high water content generally shake more than rocky sites. Wherever possible site structures on firmer ground. This will reduce the severity of vibrations experienced in an earthquake. Capital intensive infrastructure, hazardous facilities and materials, and other important buildings should not be located in the vicinity of a known fault. Since early warning is not possible in case of earthquakes, the best choice is to ensure that seismicity is monitored and integrated with the GIS. It is necessary that mitigation strategy considers instrumentation of all other areas in order to have a total assessment of the seismic activity. This would enable reconfirmation and up gradation of micro zonation activities.

## **2. Flood**

Flood is a major disaster in Tapi District. There are many small and big rivers in Tapi District like, Tapi, Purna, Mindhola, Ambika, Valmiki, Neshu, etc. Ukai Dam is situated in Tapi District and due to the heavy rainfall in catchment area of Ukai Dam Site leads to released high amount of water and which affects the Many Villages of Tapi District and Surat District as well. Than Some villages of Dolvan and Valod taluka are likely to get waterlogged due to rain and high water flow in Purna river. And some villages of Kukarmunda, houses along the banks of the river are inundated due to heavy rains in the Satapuda hills and excess water released from the Prakash Dam upstream.

### **Regulations would include.**

- Not permitting unrestricted new development in the hazard prone areas
- Anchoring and flood proofing structures to be built in known flood prone areas
- Built-in safe guards for new water and sewage systems and utility lines from flooding
- Enforcing risk zone, base flood elevation, and flood way requirements
- Prohibition on development in wetlands

Prescribing standards for different flood zones on flood maps.

To meet these requirements, local governments will have to adopt specific flood plan management into zoning and subdivision regulations, housing and building codes, and resource protection regulations.

In low-lying areas, close to the coast, and on flat land in river valleys, there may be apotential for coastal or river flooding. In geologically younger river valleys, in mountains, andfoothills there may be a potential for flash-flooding.

It is important to check the history of flooding in the area. Wherever possible

- Map the extent of land covered by past flood waters
- Get an indication of the depth of past floodwaters
- Find out about the severity of past floods; how much damage they have caused, how fastthey flowed and how much debris they left behind and
- Find out how often flooding has happened, over at least the past 20 years.

## **3. Cyclone**

In meteorology, a cyclone is an area of closed, circular fluid motion rotating in the same direction as the Earth. This is usually characterized by inward spiraling winds that rotate counter clockwise and clockwise of the Earth. Most large-scale cyclonic circulations are centered on areas of low atmospheric pressure. The largest low-pressure systems are cold-core polar cyclones and extra tropical cyclones which lie on the synoptic scale.

Tapi District does not have its border directly connected to the sea shore so the effects and possibilities of Cyclone in Tapi district is meager but the Cyclone emerged from the Arabian Sea are effecting some extent.

#### **4. Chemical Disasters**

Growth of chemical process industry in Gujarat has received a dramatic accelerated momentum in last one decade. Sophisticated technology complex processes and a wide range of chemicals and chemical products have emerged to provide better standards and improved way of living to millions of people.

There are no major MAH industries in Tapi District in spite of J.K.Paper Mill so the Chemical Hazards Vulnerability is also less in Tapi District.

#### **5. Tsunami**

Tsunamis are ocean waves produced by earthquakes or underwater landslides. Tsunamis are often incorrectly referred to as tidal waves, but a tsunami is actually a series of waves that can travel at speeds averaging 450 (and up to 600) miles per hour in the open ocean. However, waves that are 10 to 20 feet high can be very destructive and cause many deaths or injuries.

Tsunamis are most often generated by earthquake-induced movement of the ocean floor. Landslides, volcanic eruptions, and even meteorites can also generate a tsunami. Areas at greatest risk are less than 25 feet above sea level and within one mile of the shoreline.

So far as Tapi District is concern there is no coastal area in Tapi district so the Vulnerability rate of Tsunami is less.

#### **6. Epidemics**

The Public Health Department is the nodal agency responsible for monitoring and control of epidemics. Local governments and municipal authorities also have a responsibility for taking appropriate steps in this context. Therefore, success of mitigation strategy for control of epidemics is depending on the type of coordination that exists between the Health Department and local authorities. Mitigation efforts for control of epidemics would include

1. Surveillance and warning
2. Preventive and Primitive measures
3. Strengthening institutional infrastructure... Like...

- Promoting and strengthening community hospitals with adequate network of Para-professionals will improve the capacity of the Health Department for surveillance and control of epidemics.
- Establishing testing laboratories at appropriate locations in different divisions within the State will reduce the time taken for diagnosis and subsequent warning.
- Establishing procedures and methods of coordination between Health Departments and local authorities.

## **7. Drought:**

Of all the natural disasters, drought can have the greatest impact and affect the largest number of people. Drought invariably have a direct and significant impact on food production and the overall economy. Drought, however, differs from other natural hazards. Because of its slow onset, its effects may accumulate over time and may linger for many years. The impact is less obvious than for events such as earthquakes or flood but may be spread over a larger geographic area. Because of the pervasive effects of drought, assessing their impact and planning assistance becomes more difficult than with other natural hazards.

Tapi District is Gaining annual average rainfall which is evading the situation of drought, so the vulnerability from the drought is less and in even in such kind of situation the availability of resources may about to combat the situation.

## **8 Fire:**

Fires may be caused due to earthquakes, explosions, electrical malfunctioning and various other causes. The State shall take up detailed assessment of fire hazards like preparation of inventories/maps of storage locations of toxic/hazardous substances, provision and regular maintenance of firefighting equipment, identification of evacuation routes, fail-safe design and operating procedures, planning inputs, transportation corridors etc.

The possibility of fire in Tapi district is moderate. the small fires are taking places in the district during summer time, and in the forest of Songadh taluka many times the insidents of forest fire may taking place.

## **9 Nuclear Emergency:**

Kakarapar Atomic Power Station is situated in Kakarapar village of Mandvi taluka of Surat District. So far Kakarapar village is in surat District but 69 villages of Tapi district are coming under the Emergency Planning Zone of KAPS or under the 16 KM radius from KAPS. So these all 69 villages of Tapi District are vulnerable from nuclear hazard.

KAPS has its own On-site as well as Off-site emergency Management Manual but as this plans reflects about each hazard affecting Tapi district more or less in this plan evacuation plan for each village has been prepared and attached as attachments.

## Chapter 3:

### **Institutional Arrangements**

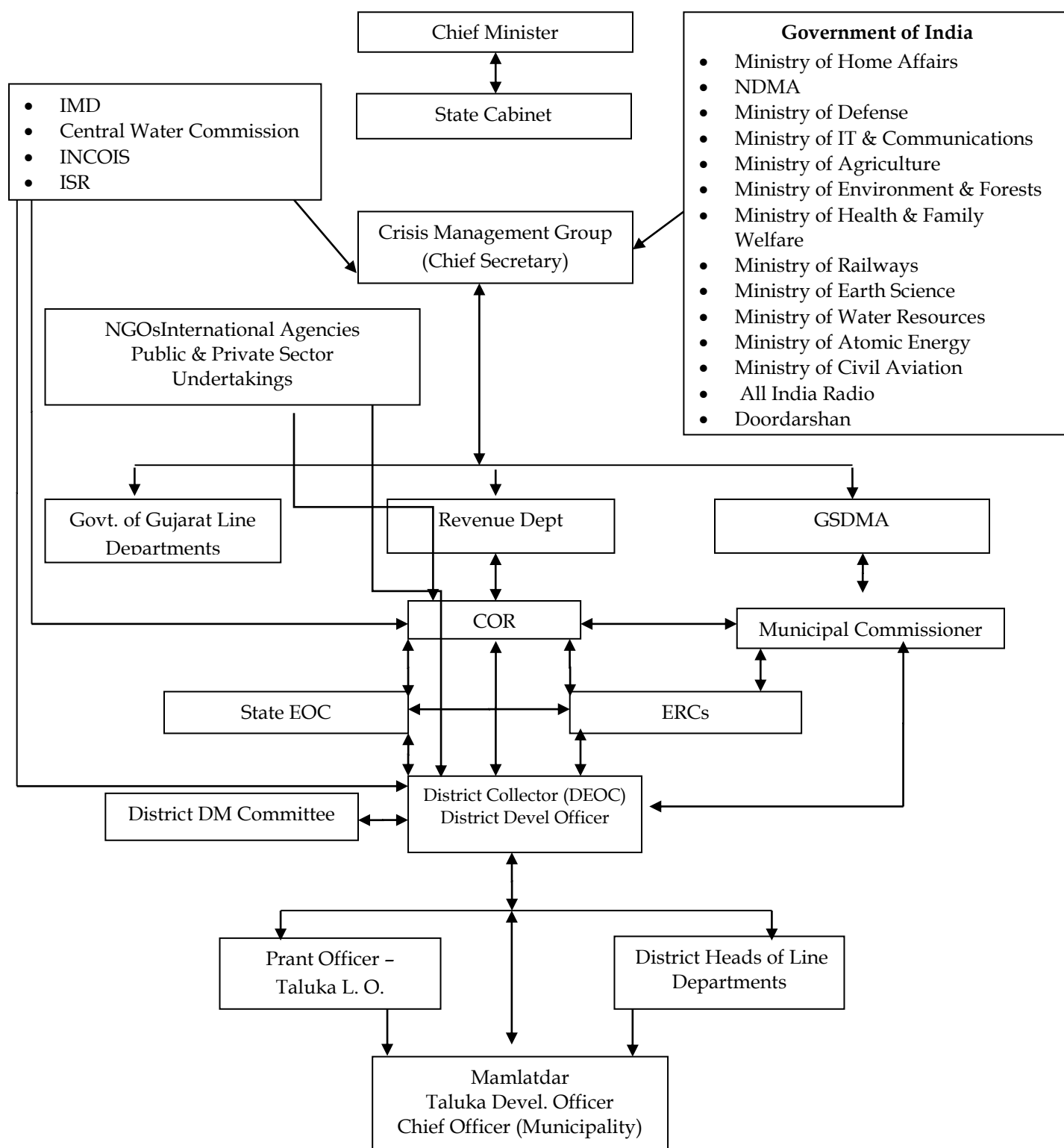
The plan incorporate multi level institutional as well as response planning mechanism at district level. That is.....

The DM structure in the State is as per the Gujarat State Disaster Management Act – 2003. The National Disaster Management Act – 2005 resembles the State Act with only a few provisions which are not a part of the State Act but are there in the Central Act. Those provisions include designating a Vice Chairman to the GSDMA, constitution of a State Executive Committee, establishment of a District Disaster Management Authority in each District and creation of a District Disaster Response & Mitigation Funds. The State has existing institutional arrangements in place for addressing the roles / responsibilities envisaged through the above provisions and hence does not find it compelling to implement the provisions afresh.

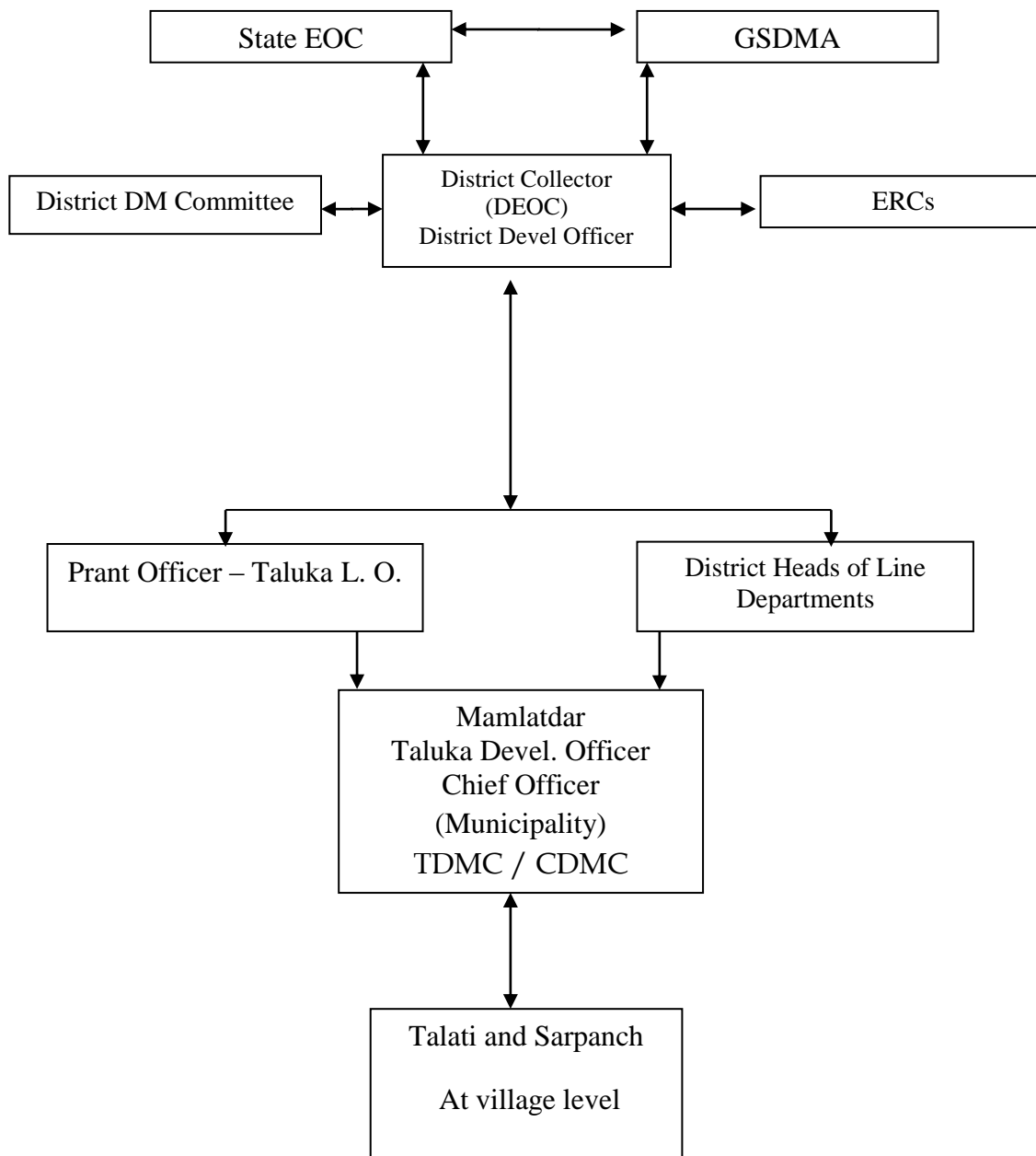
The Revenue Department of the State is the Nodal Department for controlling, monitoring and directing measures for organizing rescue, relief and rehabilitation. All other concerned line departments should extend full cooperation in all matters pertaining to the response management of the disaster whenever it occurs. The State EOC, ERCs and other control rooms at the State level as well as district control rooms should be activated with full strength. The State Government may publish a notification in the official gazette, declaring such area to be disaster-affected area under GSDMA Act (Section 32 (2) (a)).

Under this State Disaster Management Plan, all disaster specific mechanisms would come under a single umbrella allowing for attending to all kinds of disasters. The existing arrangements therefore will be strengthened by defining this administrative arrangement. This arrangement proposes Chief Secretary as the head supported by the Relief Commissioner through the branch arrangements at the Emergency Operations Centres (EOC), both at State level and at the district levels. There is a formal Incident Response System in the State. The GSDMA Act 2003 empowers Commissioner of Relief to be the Incident Commander in the State and District Collector in the respective districts.

### 3.1 D.M. Organizational Structure In The State



### 3. 2 D.M. Organizational Structure In The District



### 3.3 District Disaster Management Committee

The District Collector will be responsible for coordinating all disaster management activities at the district level. There shall be a District Disaster Management Authority headed by Collector. The District Disaster Management Authority shall approve a district disaster management planning and review all measures relating to preparedness and response to various hazards. The District Disaster Management Committee comprises members from Jilla Panchayat, different line departments, NGOs and others to be notified by the Department of Disaster Management from time to time. In times of disasters, Dist. Collector shall constitute a District Relief Committee to oversee management of relief. Following member should ne club at district level committee.

Sr. No.	Designation	Position in DDMC
1	Collector/ District Magistrate	Chairmen
2	District Development officer	Member
3	District Superintend Police	Member
4	Residentail Additional Collector	Member
5	District Supply Officer	Member
6	Exe. Engineer-R&B State	Member
7	Exe. Engineer-R&B Panchayat	Member
8	Exe. Engineer-R&B State Irrigation	Member
9	Superintending Engineer- DGVCL	Member
10	District Home guard commandant	Member
11	Superintendent Civil Hospital	Member
12	District forest Officer	Member
13	Dy. Director-Information Department	Member
14	Regional Officer-GPCB	Member
15	District Agriculture Officer	Member
16	All S D M	Member
17	Regional Transport officer	Member
18	Divisional Controller-State transport	Member
19	District Education Officer	Member
20	District Primary Education officer	Member
21	District Project Officer-GSDMA	Member
22	NGO Member	Member
23	Media Person	Member

### **3.4 Incident Response System in the Tapi District**

#### **1. Disaster Response and District Incident Command System**

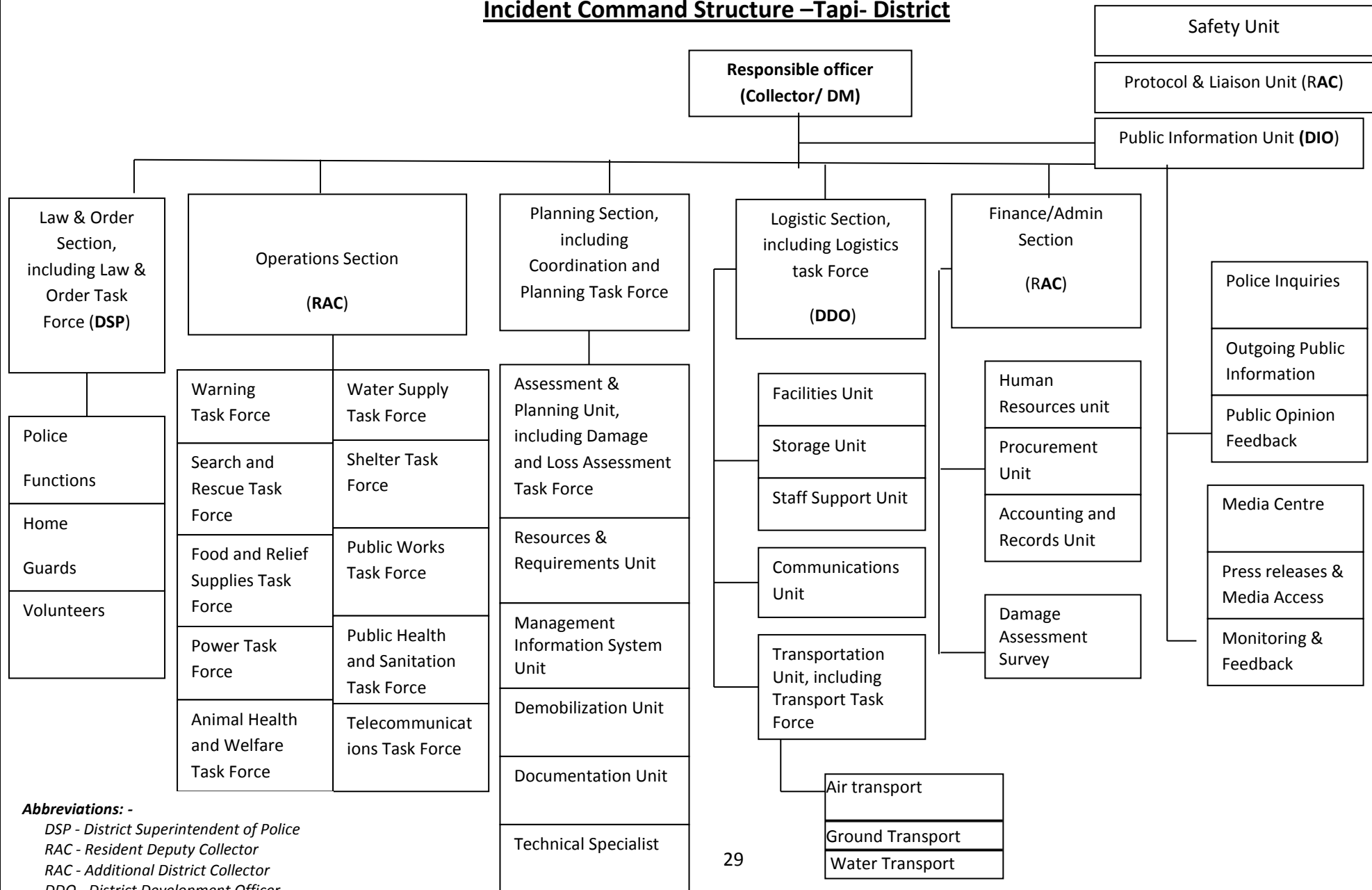
The response to disasters in the district will be organized according to the Incident Command System as adopted to conditions in Gujarat State (ICS/GS). The argument for the ICS is that its fundamental elements –unity of command, clarity of objectives and efficient resource use are common to the effective response to any disaster.

In Tapi district, the multi-hazard response plan focused on sector specific action plans unlike the department specific planning approach in the previous plan documents. The disaster response is led by the **District Emergency Operation Center (EOC)** under the command and control of the District Collector.

The organizational structure of the Incident command system of Tapi district is given in the next page.



## Incident Command Structure –Tapi- District



## **2. ICS-Basic Functions**

The basic functional descriptions for key elements in the district Incident command System is describe below. Not all these functions need to be filled (activated) in every disaster. However, the ensemble of these functions represents all the key tasks, which need to be accomplishes in a well-planned manner and execute in effective and cost efficient disaster response effort.

### **I. Incident Commander :**

Responsible for overall management of an incident based on clearly stated mandate from higher authority and based on focused objectives responding to the immediate impact of the incident.

An Incident Commander, who can be assistby a Dy. Incident Commander, leads the Incident command. In each incident will have as many as many commanders and other staff as there are shifts in the incident operation. Shifts will normally not exceed 12 hours at a time and should be standardized to 8 hours each as soon as possible after the start of the incident.

### **II. Command Staff Units**

#### **A) Safety unit:**

Responsible for ensuring the safe accomplishment of all activities undertaken in response to the incident. This task is accomplishes through developing incident specific safety guidance documents, reviewing and advising on the safety of plans and monitoring actual operations to ensure safety of personnel and survivors.

#### **B) Protocol and Liaison unit:**

Responsible for all official visits as well as liaison between the incident command and organizations providing personnel or material support being used to manage the incident. The first point of contact for NGOs and others coming to the disaster as well as responsible for managing coordination meetings (some of which may actually be held by taskforces or sections).

#### **C) Public Information Unit:**

Responsible for all media and public information tasks related to the incident. To accomplish its task, the unit can have the following sub units:

- **Public inquiries:** To handle non media requests for information
- **Outgoing public information:** To handle public information dissemination
- **Public opinion feedback:** To collect information from the public (incident survivors and the non-affected)
- **Media center:** To provide a single point of contact for all media involved in the incident.
- **Press release and media access:** Produce all releases and provide a single point of contact to arrange media access to the incident.
- **Monitoring and Feedback:** To monitor media reports and provide feedback to the incident management on coverage of the incident and to also take corrective measures and issue contradictions if required.

### III. Law and Order Section

Responsible for assuring the execution of all laws and maintenance of order in the area affected by the incident. The law and order section incorporates law and order task force that may be create to deal with a disaster.

**Police functions:** As determined by the normal mandate for and special duties assigned to the police service

**Home guard:** As determined by the normal mandate for and special duties assigned to the home guard

**Volunteers:** Supporting police and home guards in non-enforcement tasks, such as patrolling, monitoring and evacuations

### IV. Operation Section

Responsible for assuring specific operations according to objectives and plans to address the immediate impacts of the incident. Taskforces under the operation section will deal with specific functional tasks, such as search and rescue, the provision of water or shelter. The composition and size of these taskforces depends on the nature of the incident.

The District administration of Tapi has identified 16 expected task forces for key response operation functions that are describe below. Additional taskforces can be added under the operations section as needed by the circumstances of a disaster. Each Taskforce is led by one organization and supporter by other organizations.

#### **Emergency Operation Taskforce Functions**

<b>Sr. No.</b>	<b>Emergency Operation Taskforce</b>	<b>Functions</b>
1	Coordination and Planning	Coordinate early warning, Response & Recovery Operations
2	Administration and Protocol	Support Disaster Operations by efficiently completing the paper work and other Administrative tasks needed to ensure effective and timely relief assistance
3	Warning	Collection and dissemination of warnings of potential disasters
4	Law and Order	Assure the execution of all laws and maintenance of order in the area affected by the incident.
5	Search and Rescue (including Evacuation)	Provide human and material resources needed to support local evacuation, search and rescue efforts.
6	Public Works	Provide the personnel and resources needed to support local efforts to reestablish normally operating infrastructure.
7	Water	Assure the provision of sufficient potable water for human and animal consumption (priority), and water for industrial and agricultural uses as appropriate.
8	Food and Relief Supplies	Assure the provision of basic food and other relief needs in the affected communities.

9	Power	Provide the resources to reestablish normal power supplies and systems in affected communities.
10	Public Health and sanitation (including First aid and all medical care)	Provide personnel and resources to address pressing public health problems and re-establish normal health care systems.
11	Animal Health and Welfare	Provision of health and other care to animals affected by a disaster.
12	Shelter	Provide materials and supplies to ensure temporary shelter for disaster-affected populations
13	Logistics	Provide Air, water and Land transport for evacuation and for the storage and delivery of relief supplies in coordination with other task forces and competent authorities.
14	Survey (Damage Assessment)	Collect and analysis data on the impact of disaster, develop estimates of resource needs and relief plans, and compile reports on the disaster as required for District and State authorities and other parties as appropriate.
15	Telecommunications	Coordinate and assure operation of all communication systems (e.g; Radio, TV, Telephones, Wireless) required to support early warning or post disaster operations.
16	Media (Public Information)	Provide liaison with and assistance to print and electronic media on early warning and post-disaster reporting concerning the disaster.

The specific response roles and responsibilities of the taskforces indicated above is that these roles and responsibilities will be execute and coordinated through the ICS/GS system. For example, in flood, search & rescue would come under the Operations section, Transport would come under the Logistics Section and Public Information under the Public Information Unit.

## **V. Planning Section**

Responsible for collecting and analyzing information and developing plans to address the objectives set to address the incident. The overall work of the planning section will include efforts undertaken by any planning and coordination taskforce which is established as part of the response to a disaster. Units under the section include:

1. Assessment and planning
2. Resources and Requirements
3. Management information system
4. Documentation
5. Demobilization and
6. Technical specialists

## **VI. Logistic section**

Responsible for all task and functions related to provision of material and other resources needed for operations and the physical and material support and operation of the incident management team. This section include transportation taskforce established to support disaster operations. Logistics tasks are through the following units:

1. Storage and supply
2. Facilities
3. Staff support
4. Communications
5. Transportation (include ground, air water)

## **VII. Finance and Administration**

Responsible for managing all financial and administrative tasks related to incident field operations. These tasks may, but would not usually include disbursement of financial aid to those affected by an incident .The task of this section are accomplished through following units: 1. Human resources

2. Procurement
3. Accounting and records

## Task force, supporting organizations Vis-a vis ICS/GS section matrix

**The composition of the taskforces is given in the table below:**

S. No.	Task Force	Taskforce Leader	Supporting members / Organizations	ICS/GS Section / Unit
1.	Planning and Coordination	Collector/ DM	DDO, DSP, RAC, SDM and Mamlatdar	Planning
2.	Administration & Protocol	RAC	DDO, DSP, RAC and Mamlatdar	Finance & Administration
3	Damage Assessment/Survey	RAC	DIC, Dy. DDO, Ex. Engr., R&B, DAO, Fisheries	Planning
4	Warning	RAC	RAC, Dy. Mamlatdar, Control Room, District Information Officer (DIO)	Operation
5	Communications	RAC	Dy. Mamlatdar, Mobile Operators, TV, Radio, Port Office GMB, Police, Forests	Logistics
6	Media	District Information Officer	Information Department, Print, Media, TV, Journalists, NGOs	Public Information
7	Logistics	DDO	RTO, DSO, FPS, Private & Public sector, Municipal water supply board, Mamlatdar, Dist. Supply Mamlatdar	Logistics
8	Law & Order	DSP	Dy. SP, Home Guards Commandant, NGOs, Para-military and Armed Forces	Law & Order
9	Search & Rescue	Dy. Collector Civil Defense	Mamlatdar, TDO, Police, Executive Engr., Fire Brigade, RTO, State Transport, Health Deptt.	Operation
10	Public Works	Ex. Engr. R&B (State)	Irrigation, Ex. Engr., Panchayat, NGOs, Water Supply Board, Municipalities, Home Guards, Police	Operation
11	Shelter	Dist. Primary Education Officer	School Principal, Teachers, Health, PHC, State Transport, Water Supply, RTO, Mamlatdar, TDO.	Operation
12	Water Supply	Ex. Engr. GWSDB /	Dy. Ex. Engr., Talati, Mamlatdar, TDO, Health, Dy. Engr.	Operation
13	Food & Relief Supplies	Dist. Supply Officer	FPS, PDS, Mamlatdar, NGO, RTO, State Transport, Municipality, DRDA, Police, Home guard	Logistics
14	Power	Supt. Engr. GEB	Ex. Engr., Dy. Engr. Technical, GEB, Transport	Operation
15	Public Health & sanitation	Chief district health Officer (CDHO)	Supt. Hospital, PHCs, CHCS, Municipality, Fire Brigade, CivilDefense, R&B, NGOs, Doctors, TDO, Mamlatdar	Operation
16	Animal Health & Welfare	Dy. Director Animal Husbandry	Veterinary Inspector, NGOs	Operations

## DISTRICT INCIDENT COMMAND STRUCTURE-KEY OFFICERS

**Responsible officer** -District Collector: - 9978405364  
**Incident Commander** - Resident Additional Collector: -9978405415

Sr. No.	Taskforce	Taskforce Operation Room/Contact Number	Taskforce leader/Contact Number	TASKFORCE-Alternate LEADER /Contact Number
1	Warning and Communications	RAC Office	RAC 02626-224450 9978405415	Mam. Disaster Management 02626-223332
2	Law & Order	Police Control Room (CR)	DSP:- 02626-221500/222700 9978405488	Dy. SP/ P:02626-221500,
3	Search & Rescue	Dy. Collector SDM Chief Fire Officer	Chief fire Officer 02626-222022 02626-220101	Chief Officer 02626-222022
4	Public Works	R&B-CR	Ex. Engr, R&B/ 02626-220418	Dy. Engr. 02626-220081
5	Shelter	Education . Office- CR	District Edu. Officer/ 02626-221624	Dy. District Primary Edu. Officer
6	Water Supply	GWSDB-CR	Ex. Engr. GWSDB/ 02626-220338	Ex. Engr. Water orks, /
7	Food & Relief supplies	DSO-CR &DDO office	District Supply Officer/ 02626-224401	Dy. DDO office
8	Public Health & Sanitation	District Health Centre,	CDHO/ 02626-220367	Add. CDHO
9	Power	GEB-CR	Supt. Engr. GEB/ 02626-220218	Ex. Egg. GEB 02626-220218
10	Logistics	DDO office	DDO 02626-222141	Dy. DDO/ 02626-220405
11	Animal Health & Welfare	A & H Office	Dy. Director, A&H/ 02626-222167	Ass. Director A&H
12	Damage Assessment/Survey	RAC office	RAC 02626-224450 9978405415	Mam. Disaster Management 02626-223332
13	Media/public Information	Information Dept. CR	District Info Officer/ 02626-222980	Dy. DIO:
14	Planning and coordination	Collector's office	Collector/ 9978405364	RAC 9978405415
15	Finance/ Administration/ protocol	RAC office	RAC 9978405415	Mam. Disaster Management 02626-223332

*Note: for municipal areas, the Chief fire Officer is the taskforce leader of the Search & Rescue. While a Deputy collector should be appointed as taskforce leader for search and Rescue operation in non-municipal areas.*

### **3.5 EOC setup and facilities available with the location**

#### **District Emergency Operation Centers/Control Rooms (DEOC)**

- **District Control Room (DCR) / District Emergency Operation Centers (DEOC)**

The District Control Room is located in front of Court, Near Taluka Panchayat, Vyara, District Tapi. It is also the central point for information gathering, processing and decision making more specifically to combat the disaster. Most of the strategic decisions are taken in this control room with regard to the management of disaster based on the information gathered and processed. The Incident Commander takes charge at the District Control Room and commands the emergency operations as per the Incident Command System organizational chart.

All the task force leaders shall take position in the District Control Room along with Incident Commander to enable one point co-ordination for decision-making process.

- **Facilities at District Emergency Operation Centers**

The District Control Room equipped with to the following items in Table:

<b>Sr. No.</b>	<b>Item/ Facility</b>	<b>Unit/ Number of item</b>
1	Telephones	2
2	Handheld Radios and Base Stations	0
3	Satellite Telephone	1 working
4	PC with Broadband and GSWAN Internet and web site facilities	1
5	Marker board -	1
6	Conference table	1
7	A copy of Disaster Management Plan	2
8	Drawings showing Disaster information	10
9	Other relevant documents of district information	-
10	Chairs	10
11	Fax machine	0
12	Printer	1

- **Taluka Emergency Operation Centers (TEOC)**

The Taluka Emergency Operation Centers located at the Office of Mamlatdar. The Liaison Officers of the respective Talukas shall take charge of the Control Room. The respective Liaison Officers shall coordinate between the task group members working at disaster sites and TFOR for mobilization of resources and dissemination of instructions received from TFOR/DEOC.

- **Task Force Operation Room (TFOR)**

Individual Task Force function shall activate & operate their respective control rooms in their office manned by a competent person who is proficient in communication and technically capable of coordinating with Taluka Level Control Room and District Control Room and mobilize requisite resources to the disaster site.

- **Facilities at Task Force Operation Rooms (TFOR)**

The following facilities are maintained inside TFCR:



- Telephones
- Facsimile
- Satellite Phone (no immediately) - it is desirable.
- Hand held Radios/Base Stations
- Marker board (1)
- A copy each of Disaster Management Plan and Task Force Plan
- Other relevant documents, if any

● **Facilities at Taluka Level Control Rooms (TLCR)**

The following facilities are maintained inside TLCR:

- Telephones
- Facsimile
- Hand held Radios/Base Stations
- Marker board (1)
- A copy each of Disaster Management Plan and Taluka Level Plan
- Other relevant documents, if any

Responsibility of up keeping and maintenance of all the above items / facilities in the respective Control rooms is given as below.

DCR (DEOC) : District Collector or any person nominated

TFCR : Respective Task Force Leader

TLCR (TEOC) : Respective Taluka Liaison Officer

The above responsible Depts./ personnel shall carryout periodic inspection of such facilities in their respective control rooms at the frequency set by them and maintain records on the same.

**Emergency Communication Systems**

Communication system is very crucial for effective control of any disaster. The communication philosophy adopted by Disaster Management team during the disaster is given as below:

In the event of collapse of any communication facility / Communication infrastructure as a cascading effect/consequence of disaster, Telecommunication Task Force Leader shall ensure immediate restoration of such facility or infrastructure to ensure uninterrupted communication for effective disaster management operations.

**Synthesized Radio Communication**

All the Control Rooms are equipped with Radio base stations and all the task force leaders and their teams are provided with hand held radio sets. The different user groups are operating at different frequency channels allotted to them for ease in communication in respective groups. The table below shows the allotted frequency channel for individual Task Force. All the sets are programme for different groups' frequencies to facilitate horizontal communication among the different task groups.

**3.6 Alternate EOC available and its location**

In case of any emergency when the main district Emergency Operation Centre may collapse, the control room of New Collector Office, Jilla Seva Sadan, Collector Office Panvadi, Vyara might be use as the Alternative Control room. It is also the central point for information gathering, processing and decision making more specifically to combat the disaster but when such kind of situation where DEOC will collapse so alternate EOC will started at Collector office.

**Alternate Communication System**

There could be a situation when all the communication facilities and systems may come to halt due to collapse of communication facilities/infrastructures. In the event of such a failure, till the facility/infrastructure is restored made functional, following alternate systems shall be used based on the seriousness of the situation:

### **Satellite Communication System**

Satellite communication shall be activated once all the communication systems fail. This facility is installed at all the control rooms. The Telecommunication Task Force Leader shall ensure that this facility is resumed on all such occasions.

### **Messengers**

- Use of messengers as a last resort to carry the hand written messages to persons concerned in dealing with the disaster.
- A dedicated vehicle shall be made available by the Transport Task Force Leader upon request

### **Right use of Communication facility**

- The sense of urgency that every one experiences during disaster may lead to a chaotic situation if communication systems are not properly used.
- Communication shall be brief and simple.
- Telephones/ Hot Lines shall be used wherever possible to avoid congestion of Radio communication.
- All task force members shall communicate only through their allotted frequency channel to avoid congestion in the particular channel.

Personnel who use Radios should be acquainted with the operation of the equipment, various channels, code words, length of speech, etc.

### **3.7 Public and private emergency service facilities available in the district**

Tapi district has two Fire stations in Respective two nagarpalika. These emergency services are fully equipped with various equipment and trained personal which are use in search and rescue operation during disaster situation.

### **3.8 Forecasting and warning agencies**

#### **Alert Mechanism – Early Warning**

On the receipt of warning or alert from any such agency, which is competent to issue such a warning, or on the basis of reports from District Collector of the occurrence of a disaster, the response structure of the State Government will be put into operation. The Chief Secretary/Relief Commissioner will assume the role of the Chief of Operations during the emergency. The details of agencies competent enough for issuing warning or alert pertaining to various types of disasters are given below;

<b>Sr. No.</b>	<b>Disaster</b>	<b>Agencies</b>
1	Earthquakes	IMD, ISR
2	Floods	IMD, Irrigation Department
3	Cyclones	IMD
4	Tsunami	IMD, ISR, INCOIS
5	Drought	Agriculture Department
6	Epidemics	Health & Family Welfare Department
7	Industrial & Chemical Accidents	Industry, Labor & Employment Department, DISH
8	Fire	Fire & Emergency Services

## **Chapter 4**

### **Prevention and Mitigation Measures:**

#### **4.1: Prevention measures in development plans and programmers**

For disaster prevention and mitigation, both structural and non-structural interventions can be planned. Structural interventions include construction of physical engineering and non engineering structures to reduce hazard risks. Non structural mitigation includes awareness and capacity building at official and community level, formulation of new plans and overall promoting a commitment for safety.

Mitigation measures can be divided in two categories:

- i) Structural measures: On site works, construction, and engineering works and
- ii) Non-structural measures: Which include studies, research, regulations, policy changes and capacity building activities that support the structural measures.

The taluka disaster management plan includes hazard specific structural and non structural mitigation plans in consultation and convergence with various Departments. For example, the MGNREGA work can take up activities on construction of embankment for flood safety or the forest department may take up mangrove plantation in the coastal areas, while the water supply department can construct hand pumps on raised platforms.

Departments shall draw out its own plan, goals and milestones and review it annually for its achievements and planning for next year.

Mitigation, preparedness and prevention actions are to be taken before a disaster to reduce the likelihood of a disaster (risk reduction) or the level of damage (vulnerability reduction) expected from a possible disaster. Vulnerability reduction is given priority over a risk reduction. The district can avail itself of four mechanisms (singularly or together) to reduce risk and vulnerability;

- Long term planning for mitigation, preparedness and prevention investments in the district,
- Enforcement of regulations, particularly building and safety codes and land use plans,
- Review and evaluation of development plans and activities to identify ways to reduce risks and vulnerability, and,
- Capacity building, including warning, the provision of relief and recovery assistance and community-level identification of risk and vulnerability.

The Collector, assisted by the District Development Officer, is responsible for developing plans and activities to effect mitigation, preparedness and prevention using the mechanism noted above.

Base on the interim assessment of risk and vulnerabilities, the District will focus on the following areas for mitigation, preparedness and prevention;

- Resilience of lifeline systems (water, power and communications)
- Reduction in disaster impact on health care facilities, schools and roads
- Vulnerability reduction in flood-prone areas
- Vulnerability reduction to high winds
- Improvement of Off-site Preparedness near Industrial sites.

## Hazard wise Structural and Non- structural Mitigation Measures

### **Hazard: Flood**

**Table No. : 4.1**

**Structural Mitigation Measures for Flood**  
(Identified works of concerned Departments)

<b>Probable Mitigation Measures</b>	<b>Implementing Departments</b>	<b>Convergence with Scheme/ Program</b>	<b>Time Frame</b>
Desalting and deepening of water channel (khans)	Irrigation and Rural Development, GLDC	Departmental program & MGNREGS,	Regularly
Construction of embankments/ protection wall	Rural Development, Forest	Departmental program & MGNREGS, watershed	Regularly
Repair of embankments/ protection wall	Rural Development, R&B department	Departmental program & MGNREGS	Regularly
Repair and maintenance of Flood Channels, canals, natural drainage, storm water lines	Irrigation department Concern Municipality	Departmental or special plan	Regularly
Construction of Safe Shelters (new construction through Indira Awas, Sardar Awas and Ambedkar Awas)	Collector and R&B District Panchayat		Regularly
Protection wall and mangroves and vegetative cover against sea level intrusion and land erosion	Forest and Rural development department GEC	Department schemes, MGNREGS, IWMP	Regularly
Desalting of water bodies like river and ponds	Irrigation DDORural Development	MGNREGA and Land Development	2024-25

**Table No. : 4.2**

**Non-Structural Mitigation Measures for Flood**  
(Identified works of concerned Departments)

<b>Non-Structural measures</b>	<b>Implementing Departments</b>	<b>Convergence with agency/program</b>	<b>Time Frame</b>
Safety audit of existing and proposed housing stock in risk prone areas	DDO, Rural development	IAY, Sardar Awas and other rural housing schemes	Regularly
Promotion of Traditional, local and innovative	DDMC, TDMC, CDMC, SHGs and youth groups,	Training and capacity building plan for disaster management At all level	Regularly

<b>Non-Structural measures</b>	<b>Implementing Departments</b>	<b>Convergence with agency/program</b>	<b>Time Frame</b>
practices like bamboo/plastic bottle rafts etc, clean city green city	NGOs Volunteers		
Capacity building of volunteers and technicians	DDMC, TDMC, CDMC	Training and capacity building plan for disaster management	Regularly
Awareness generation on health and safety of livestock	veterinary officer, rural development	Departmental Scheme	Regularly

### **Hazard: Cyclone**

**Table N.: 4.3**  
**Structural Mitigation Measures for Cyclone**

<b>Structural measures</b>	<b>Identified Locations and Villages</b>	<b>Implementing Departments</b>	<b>Convergence with Scheme/Program</b>	<b>Time Frame</b>
Plantations (mangroves) and Shelter Belt in the Coastal Area		Forest department, Port Authority, DIC, TDO, Rural development department, GEC	Departmental schemes, MGNREGA	
Identification and repair/ retrofitting of houses and buildings unsafe for cyclone		R & B (District Panchayat)	Departmental Scheme	Regularly

**Table No.: 4.4**  
**Non-Structural Mitigation Measures for Cyclone**

<b>Non-Structural measures</b>	<b>Location/ coverage area</b>	<b>Implementing Departments</b>	<b>Convergence with agency/ program</b>	<b>Time Frame</b>
Strengthening of Early warning mechanisms		DDMC, TDMC	District administration Line department	Regularly
Training and awareness generation for use of safety jackets/rings/buoys/rope etc for fisher folks		DDMC, TDMC, VDMC, CDMC	TDMP, VDMC	2024-25
Enforcing strict compliance to coastal regulation zone and awareness regarding		Department of Environment & Forest Depart. Fishing GEC	Integrated Coastal Zone Management CRZ Regulation	

Non-Structural measures	Location/ coverage area	Implementing Departments	Convergence with agency/ program	Time Frame
hazard				
Registration of fishing boats		Fisheries Department	CRZ Regulation	
Regulate and issue orders for poor quality hoardings/buildings or any other objects		R & B Department		

### Hazard: Earthquake

**Table No. : 4.5**  
**Structural Mitigation Measures for Earthquake**

Structural measures	Identified Locations and Villages	Implementing Departments	Convergence with Scheme/ Program	Time Frame
Retrofitting (if required) of public utility buildings like offices, schools/ banks/ markets etc	Earthquake prone 5 Taluka under zone 3	R & B (State and Panchayat), DDO, Rural department	TP Plan and all development plan	Regularly
Retrofitting of unsafe rural houses	In district	DDMC, DDO, R & B State and panchayat	Rural housing schemes and departmental programs	Regularly
Identifying and safely dismantling unsafe structures		R & B department	Development plan	Regularly
Issue permission for Earthquake registrant house		Area Development Authority	TP plan	Regularly

**Table No. : 4.6**  
**Non Structural Mitigation Measures for Earthquake**

Non-Structural measures	Location/ coverage area	Implementing Departments	Convergence with agency/ program	Time Frame
Capacity building of architects, engineers and masons on earthquake resistant features	under zone 3	R & B (State and Panchayat) DDMC, TDMC, CDMC	DRM, DRR, special training programme	Regularly
Registration of trained and certified mason		R & B (State and Panchayat), DDMC	--	Regularly
Strict enforcement of guideline pertaining to seismic safety for government rural housing,		DDO, DDMC, CDMC, TDMC, VDMC	Rural housing schemes	Regularly

urban development structure				
Mock-drills for Schools, Hospitals and , Public Buildings and trainings for mason, engineers and architects		DDMC, Schools	DRM, Nssp, DRR DM regulation	Regularly

**Hazard: Drought**

**Table No. : 4.7**  
**Structural Mitigation Measures for Drought**

Structural measures	Identified Locations and Villages	Implementing Departments	Convergence with Scheme/ Program	Time Frame
Development of Pasture land in common property, seed farms and trust land		Forest, Rural Development, Panchayat	Departmental Scheme, MGNREGA	Regularly
Rain Water Harvesting storage tanks at household level and public buildings		GWSSB, (WASMO), Rural Development	MGNREGA, Swajaldhara	Regularly
Structures for water harvesting and recharging like wells, ponds, check dams, farm ponds, etc		DDO, Rural development, irrigation department	MGNREGA ,Watershed program, departmental schemes	Regularly
Development of fodder plots/banks		DDMC, Forest department , animal husbandry department	Development plan	Regularly
Repair and maintenance, de-silting of water sources, check dams, hand pumps etc.		Irrigation, Rural Development	MGNREGA, Watershed	Regularly

**Hazard : Industrial (Chemical)**

**Table No. 4.8**  
**Industrial (Chemical) Structural Measures**  
**(in coordination with LCG, DCG district and state level authorities)**

Structural measures	Activities	Implementing Departments	Convergence with agency/ program	Time Frame
Monitoring impact of industries on NRM (land, water and air)	Data collection of impact on natural resources (ground water monitoring wells, air quality test, etc)	DDMC, DCG GPCB	Environment protection act	Regular intervention
Safety assessment	Carry out structural safety inspection/audit	DISH, DCG ( Asst.Director. Industrial safety and	Industrial act	Regular intervention

		health)		
Protection wall	Build protection wall for minimize risk of disaster	Industrial unit	Industrial act	Regular intervention

**Table No.: 4.9**  
**Industrial (Chemical) Non-Structural Measures**  
(in coordination with LCG, DCG, district and state level authorities)

<b>Non structural Measures</b>	<b>Activities</b>	<b>Implementing Departments</b>	<b>Convergence Agencies</b>	<b>Time Frame</b>
Planning	Prepare an onsite and offsite emergency plan	Occupier, DISH	Various Industrial act	-
	Conduct mock drills as per the regulations	DISH and LCG	Various Industrial act	Regular intervention
	Update the DM plan as per the requirement	Occupier, DISH	Various Industrial act	Industrial act
	Monitor similar activities in all the factories/ industries	DISH and LCG	Various Industrial act	Industrial act
Capacity Building	Develop IEC material for Publication & Distribution	TDMC	Various Industrial act	Industrial act
	Awareness generation to general public and medical professional residing near MAH factories for immediate steps	TDMC, LCG	Various Industrial act	Industrial act
	Organize training programmers, seminars and workshops (e.g. for drivers of HAZMAT transport, line departments officers, Mamlatdar etc)	TDMC, LCG	Various Industrial act	Industrial act
	List of experts/ resource person/ subject specialist (District emergency Off site plan)	TDMC, LCG	Various Industrial act	Industrial act
	Encourage disaster insurance	Labor& employment department	Various Industrial act	Industrial act
Medical	Listing of hazardous chemicals and gases.	Occupier, LCG, DISH, THO	Various Industrial act	Industrial act
	Keep check on availability and validity of relevant antidotes for chemical hazards prevalent in Taluka	Occupier, LCG, DISH, THO	Various Industrial act	Industrial act
	Workshops and trainings for medical professionals to handle potential chemical and industrial hazard	THO, Occupier, LCG, DISH	Various Industrial act	Regularly
Compliance	Environmental Protection Act, Factory Act, Mutual Aid SOPs	DISH , GPCB	Various Industrial act	Regular interval



At the District level, the District Crisis Management Group (DCG) is an apex body to deal with major chemical accidents and to provide expert guidance for handling them. DCG has a strength of 34 members which includes District Collector, SDM and Dy. Collector, DDO, Dy. Director – Industrial Safety & Health, DSP, PI, Fire Superintendent of the City Corporations or important Municipalities, Chief District Health Officer, Civil Surgeon, SE, Chief Officer, Dy. Chief Controller of Explosives, Commandant – SRPF, Group-I, Dy. Director – Information to name a few. At Taluka level Local Crisis Management Group (LCG) is formed for coordination of activities and executing the operations.

## **Sendai Framework**

### **Disaster Risk Reduction Post-2015**

Post 2015, there has been a significant shift from the approach of Managing Disasters to Managing Risk. The three landmark global agreements viz. – the Sendai Framework for Disaster Risk Reduction 2015-30 (SFDRR), Sustainable Development Goals (SDG) and the Paris Agreement (CoP 21) set the stage for future global action on Disaster Risk Reduction (DRR), sustainable development and climate change.

### **Sendai Framework of Actions for Disaster Risk Reduction 2015-2030**

The Sendai Framework for Disaster Risk Reduction 2015-2030 (SFDRR) was adopted at the Third United Nations World Conference on Disaster Risk Reduction held in Sendai, Japan in March 2015. The SFDRR is a document that outlines four priorities for action to achieve 7 targets, which in turn would lead to one outcome which is- a substantial reduction of disaster risk and losses in lives, livelihoods, health, the economy of persons, businesses, communities and countries. India is a signatory to the Sendai Framework for a 15-year, voluntary, non-binding agreement that recognizes that the State has the primary role in reducing disaster risk, but that responsibility should be shared with other stakeholders including local government, the private sector and other stakeholders.

### **The Four priorities of action are:-**

1. Understanding Disaster Risk
2. Strengthening Disaster Risk Governance to Manage Disaster Risk
3. Investing in Disaster Risk Reduction for Resilience
4. Enhancing Disaster Preparedness for Effective Response and to 'Build Back Better' in Recovery, Rehabilitation and Reconstruction

### **The seven global targets are: -**

- A. Substantially reduce global disaster mortality by 2030, aiming to lower the average per 100,000 global mortality rates in the decade 2020-2030 compared to the period 2005-2015
- B. Substantially reduce the number of affected people globally by 2030, aiming to lower the average global figure per 100,000 in the decade 2020-2030 compared to the period 2005- 2015
- C. Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030
- D. Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030
- E. Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020
- F. Substantially enhance international cooperation to developing countries through

adequate and sustainable support to complement their national actions for implementation of this Framework by 2030

- G. Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030

### Sustainable Developmental Goals

The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by all United Nations Member States in September 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. The 17 SDGs are integrated—that is, they recognize that action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability. They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests. To make the 2030 Agenda a reality, broad ownership of the SDGs must translate into a strong commitment by all stakeholders to implement the global goals.

### Paris Agreement on Climate Change Action and Disaster Risk Reduction (CoP 21)

The CoP 21 the Paris Climate Conference held in December 2015 led to a new international climate agreement, applicable to all countries, aiming at “holding the increase in the global average temperature to well below 2°C above-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change”. The Paris Agreement recognized the need for loss and damage associated with the effects of climate change. The agreement identified areas of cooperation central to DRR and called for investments to address the underlying risk drivers associated with rising greenhouse gas (GHG) emission levels and to inspire innovation and low-carbon growth.

The State Disaster Management Plan (SDMP) has tried to envisage coherence across the states. Efforts for DRR, sustainable development, and the actions in response to climate change. Prime Minister’s 10-Point Agenda towards Disaster Risk Reduction

The Prime Minister, Shri Narendra Modi, listed a Ten -Point Agenda in his inaugural speech at the Asian Ministerial Conference on Disaster Risk Reduction 2016, held in New Delhi in November 2016 (AMCDRR), which has also been incorporated in the SDMP. The ten key elements consist of the following:

1. All development sectors to imbibe principles of Disaster Risk Management
2. Work towards risk coverage for all-starting from poor households to small and medium enterprises to multi-national corporations to nation states.
3. Encourage greater involvement and leadership of women in disaster risk management.
4. Invest in risk mapping globally related to hazards such as earthquakes based on widely accepted standards and parameters.
5. Leverage technology to enhance the efficiency of disaster risk management efforts.
6. Develop a network of universities to work on disaster issues.
7. Utilize the opportunities provided by social media and mobile technologies.
8. Build on local capacity and initiative. Response agencies need to interact with the communities and make them familiar with the essential drill of disaster response.
9. Ensuring that disaster learning is well documented.
10. Bring about greater cohesion in international response to disasters

### Preparedness Measures:

#### **5.1: Formation of Persons and training for**

##### **Search & rescue**

It is the duty of the DDMA to provide specialized life saving assistance to district and local authorities. In the event of a major disaster or emergency its operational activities include locating, extricating and providing on site medical treatment to victims trapped in collapsed structures. In the event of any disaster the Home Guards along with the support of the Police dept. form teams to locate injured and dead and try to rescue the ones in need. There are other bodies too that help these departments in this work, like the PWD, Health dept, Fire dept and also the people that voluntarily form teams to help the ones in need. Proper training for search and rescue process needs to be undertaken so as to minimize the time taken in rescuing someone. Also proper methodology and resources are needed to carry out a search & rescue mission.

The tactics used in the search & rescue process vary accordingly with the type of disaster that we are dealing with. In case of flood, a boat and trained swimmers are a must while in case of an earthquake sniffer dogs and cutting tools with trained manpower is a binding requirement. The household register that is maintained by the warden should be maintained for every village as it proves to be of great help in case of a disaster like an earthquake. Because in case of the aforementioned disaster people get trapped in the debris of buildings and houses and it becomes difficult to estimate how many people are present in the debris. But if a household register is maintained then the task becomes quite easy and effective to find out almost correctly that how many people would be present in any building/house at any given time. Thus the resources can be justifiably distributed and more lives can be saved. This kind of process is highly recommended in this particular district which lies in moderate earthquake prone region.

For flood it is recommended that the boats that are used should be light weight and the motor should be of 'luma' type, so that it becomes easy for the rescue team to lift the boat and carry it to the spot.

#### **Search & rescue Team Designation of trained S&R Team member**

*The Search & Rescue team is formed as and when required and the members & equipments are taken according to the nature of the disaster (and also on their availability).*

- Police Officers (2 or more)
- Home guards (2 or more)
- Swimmers (In case of flood)
- A construction engineer (From P.W.D.)
- Driver (For Every vehicle)
- Any person with the prior experience of the disaster (From Home Guard/Police Dept.)
- A doctor or nurse or at least a person having first aid training
- A Class IV Officer (Health Dept.)

### **Early Warning:**

The early warning systems for different disasters should be in place so that the concerned administrative machinery and the communities can initiate appropriate actions to minimize loss of life and property. These should give an indication of the level of magnitude of the mobilization required by the responders. The goal of any warning system is to maximize the number of people who take appropriate and timely action for the safety of life and property. All warning systems start with the detection of the event and with their timely evacuation. Warning systems should encompass three equally important elements viz detection and warning, dissemination of warning down to the community level and the subsequent quick response.

The State acknowledges the crucial importance of quick dissemination of early warning of impending disasters and every possible measure will be taken to utilize the lead-time provided for preparedness measures. As soon as the warning of an impending calamity is received, the EOCs at the State, District and Block levels will be on a state of alert. The Incident Commander will take charge of the EOC and oversee the dissemination of warning to the community. The District Collector will inform the District Disaster Management Committees who will alert the block and Village level DMCs and DMTs to disseminate the warning to the community. On the basis of assessment of the severity of the disaster, the State Relief Commissioner (Incident Commander) shall issue appropriate instructions on actions to be taken including evacuation to the District Collector, who will then supervise evacuation. In situations of emergency, the District Collector will use his own discretion on the preparedness measures for facing the impending disaster.

At the village level, members of the VDMCs and DMTs or village level will coordinate the evacuation procedures to the pre-designated relief centers, taking special care of the vulnerable groups of women, children, old people etc. according to the plans laid down earlier.

### **Evacuation:**

Evacuation is a risk management strategy, which may be used as a means of mitigating the effects of an emergency or disaster on a community. It involves the movement of people to a safer location. However, to be effective, it must be correctly planned and executed. The process of evacuation is usually considered to include the return of the affected community.

Shelter provides for the temporary respite to evacuees. It may be limited in facilities, but must provide protection from the elements as well as accommodate the basic personal needs, which arise at an individual level in an emergency.

The plan must allocate responsibility for management of each of the elements of shelter. Considering the wide range of services, agencies and issues to be managed, it becomes essential for 'shelter' to be managed within a structure, which facilitates the coordination of agencies and services and support of emergency workers. The following factors may need consideration:

- Identification of appropriate shelter areas based on safety, availability of facilities, capacity and number of victims
- Approaches to the shelter location in light of disruption due to hazard impact and traffic blockades
- Temporary accommodation
- Provision of essential facilities like drinking water, food, clothing, communication, medical, electrical and feeding arrangements, etc
- Security
- Financial and immediate assistance
- First-aid and counseling

## **Types of evacuation**

For planning, all evacuations may be considered to be one of two generic types:

- (a) Immediate evacuation, which allows little or no warning and limited preparation time as in the case of earthquakes and air accident
- (b) Pre-warned evacuation resulting from an event that provides adequate warning and does not unduly limit preparation time as in the case of flood and cyclones.

## **Principles of Evacuation Planning**

- Establishment of a management structure for organization, implementation, coordination and monitoring of the plan
- Determination of legal or other authority to evacuate
- Clear definition of rules and responsibilities
- Development of appropriate and flexible plans
- Effective warning and information system
- Promoting awareness and encouraging self-evacuation.
- Assurance of movement capability
- Building confidence measures and seeking cooperation of the affected community.
- Availability of space for establishment of relief camps having requisite capacity and facilities
- Priority in evacuation to be accorded to special need groups like women, old and sick, handicapped and children
- For effective evacuation, organization and running of relief centers, cooperation and involvement of all agencies viz. Community, volunteers, NGOs, NCC / NSS, Home guards and civil defense, district and village bodies be ensured
- Security arrangement and protection of lives and property
- Preparation and updating of resource inventories
- Appropriate welfare measures throughout all stages
- Test exercise of prepared plans and recording of lessons learnt
- Documentation

## **Stages of Evacuation**

There are five stages of evacuation as under:

- Decision of authorities to evacuate victims
- Issue of warning and awareness
- Ensuring smooth movement of victims to designated relief camps
- Ensuring provision of all requisite facilities like security, safe-housing, feeding, drinking-water, sanitation, medical and allied facilities
- Safe return of personnel on return of normalcy

## **Decision to Evacuate**

Vulnerability analysis may indicate that for certain hazards and under certain conditions, sheltering in place could well be the best protection. Available lead-time may influence the decision to evacuate the public before the impact of emergency (e.g. floods) and reducing the risk to lives and property. Decision would also be dependent on factors like ready availability of suitable accommodation, climatic condition, and severity of likely hazard and time of the day.

The Collector would be the authoritative body to issue directions for evacuation. The OIC of DECR would convey directions to Desk Officers of concerned agencies, which are responsible to execute evacuation.

## **Basic consideration for Evacuation**

The DCG will define area to be evacuated as also the probable duration of evacuation based on meteorological observations and intimations by the concerned forecasting agencies. It should also identify number of people for evacuation, destination of evacuees, lead-time available, welfare requirements of evacuees as also identify resources to meet the needs of victims, viz. manpower, transport, supplies equipments, communications and security of the evacuated area.

The evacuating agency should set priorities for evacuation in terms of areas likely to be affected and methodology to execute evacuation:

- Delivery of warning
- Transport arrangement
- Control and timing of movement
- Fulfill welfare needs including medical treatment
- Registration of evacuees

All agencies involved in evacuation operation like Home guards, Police, PWD, PHED, etc. will coordinate in field. They will remain in touch with the Desk officials in the DECR for issuing warning, information and advise the public.

### **Evacuation Warning**

An evacuation warning must be structured to provide timely and effective information. Factors, which may influence the quality and effectiveness of warning, include time, distance, visual evidence, threat characteristic and sense of urgency e.g. the more immediate the threat, the greater the resilience of people to accept and appropriately react to the warning.

The warning should be clear and target specific. The warning statement issued to the community should be conveyed in a simple language. The statement should mentioned:

- The issuing authority, date and time of issue
- An accurate description of likely hazard and what is expected
- Possible impact on population, area to be in undated or affected due to earthquake
- Need to activate evacuation plan
- Do's and Don'ts to ensure appropriate response
- Advise to the people about further warnings to be issued, if any

## **Damage & Loss Assessment**

Immediately after the disaster, there is an urgent need of damage assessment in terms of loss of life, injury and loss of property. The objectives of damage assessment are to mobilize resources for better rescue and relief, to have detailed information of damage extent and severity of disaster and to develop strategies for reconstruction and restoration facilities.

Damage is assessing with regard to building stock, standing crops, agricultural area, livestock lost, forest cover decimated, vital installations etc. In damage assessment of building stock, generally three types of flags are used; green, yellow and red. The green color is given to the buildings that are safe and require 2-3 days to return to their original function. Yellow flags depict the considerable damage to the buildings and considered unsafe for living, as they require proper structural repairs and careful investigation. The red flag is assigned to buildings that are partially or completely collapsed. Immediately after a disaster event, damage assessment will be conducted in 2 phases viz. Rapid Damage Assessment and Detailed Damage Assessment.

### **5.2: Training need analysis -Education and Capacity Building and arrangement for training:-**

Although education about disaster mitigation and prevention and capacity building would seem to be ideal district-level efforts, the lead for both probably best rests with the state level, with districts having a facilitating role. The issue is that if 26 districts independently embark on education and capacity building it will be hard to coordinate and standardize the results across districts. A significant consequence would be an inequality in capacities across districts, and thus uneven mitigation and prevention results. How to fund these activities remains open. Options range from GSDMA grants to set-asides in budget allocations. Project Impact in the US and similar programs in Australia and Canada are good models for the former approach.

### **5.3: Training, capacity building and other proactive measures Training:**

**Table No. 5.3**

<b>Sr.</b>	<b>Task / Activity</b>	<b>Responsibility</b>
1	Training to civil defense personal in various aspect of disaster management	Home Department
2	Training to home Guards personal in various aspect of disaster management including search and rescue	Dy. Controller Civil Defense District Home Guards Commandant
3	Training to NCC and NSS personal in various aspect of disaster management	Education Department NCC /Collector Office
4	Training to educational and training institutions personal in various aspect of disaster management	DDMC
5	Training to civil society, CBOs and corporate entities in various aspect of disaster management	DDMC
6	Training to fire and emergency service personal in various aspect of disaster management	Fire Dept, CDMC DDMC
7	Training to police and traffic personal in various aspect of disaster management	DDMC Police Dept.
8	Training to media in various aspect of disaster management	DDMC Information Dept.
9	Training to govt. officials in various aspect of disaster management	DDMC
10	Training to engineers, architects, structural engineers, builders and masons in various aspect of disaster management	DDMC, R & B

### **Awareness**

<b>Task</b>	<b>Activity</b>	<b>Responsibility</b>
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Information, education And communication	Advertisement, hording, booklets, leaflets, banners, shake-table, demonstration, folk dancing and music, jokes, street play, exhibition, TV Spot, radio spot, audio-visual and documentary, school campaign, Rally, - Planning and Design - Execution and Dissemination	<input type="checkbox"/> Information Dept <input type="checkbox"/> Education Dept <input type="checkbox"/> All line dept <input type="checkbox"/> Dist. Collectors <input type="checkbox"/> Chief officer <input type="checkbox"/> Other Dist. Authorities
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#### **5.4: Activation of Incident Response System in the District and identification of quick response team**

##### **Command:**

This function establishes the framework within which a single leader or committee can manage the overall disaster response effort. A single Incident Commander is responsible for the successful management of the response during operational period in an area. If the incident grows in size and extends throughout many jurisdictions, multiple incident commanders can be useful with an area command authority may be established to coordinate among the incidents. Incident Commander requires the following Command Staffs to support him, which are as followings,

- Public Information Officer – the single media point of contact
  - Safety Officer – Responsible for identifying safety issues and fixing them, he has the authority to halt an operation if needed.
  - Liaison Officer – Point of contact for agency to agency issues.
1. **Operations:** this section carries out the response activities described in the Incident Action Plan (IAP) along with coordinating and managing the activities taken the responding agencies and officials that are directed at reducing the immediate hazard, protecting lives and properties. This section manages the tactical fieldwork and assigns most of the resources used to respond to the incident. Within operations, separate sections are established to perform different functions, such as emergency services, law enforcement, public works...etc.
  2. **Planning:** this section supports the disaster management effort by collecting, evaluating, disseminating, and uses information about the development of the emergency and status of all available resources. This section creates the action plan, often called “Incident Action Plan” (IAP), which shall guide emergency operations/response by objectives.

Followings are the six primary activities performed by the planning section, including,

- Collecting, evaluating, and displaying incident intelligence and information
  - Preparing and documenting IAPs
  - Conducting long-range and contingency planning
  - Developing plans for demobilization
  - Maintaining incident documentation
  - Tracking resources documentation
3. **Logistics:** the process of response includes personnel, equipments, vehicles, facilities...etc, all of which will depend upon the acquisition, transport, and distribution of resources, the provision of food and water, and proper medical attention. The Logistic section is responsible for the mentioned process.



4. **Finance and Administration:** this section is responsible for tracking all costs associated with the response and beginning the process for reimbursement. The finance and administration section becomes very important when the national government provides emergency funds in place that guarantee local and regional response agencies that their activities, supply use, and expenditures will be covered.

A traditional command structure exists in the administrative hierarchy which manages disasters in India. It has been planned to strengthen and professionalise the same by drawing upon the principles of the ICS with suitable modifications. The ICS is essentially a management system to organise various emergency functions in a standardised manner while responding to any disaster. It will provide for specialist incident management teams with an incident commander and officers trained in different aspects of incident management, such as logistics, operations, planning, safety, media management, etc. It also aims to put in place such teams in each district by imparting training in different facets of incident management to district level functionaries. The emphasis will be on the use of technologies and contemporary systems of planning and execution with connectivity to the joint operations room at all levels.

The local authorities do not have the capacity to play an efficient role at local level to support the DEOC's requirements for field information and coordination. The DEOC will therefore need to send its own field teams and through them establish an Incident Command System. The system will comprise:

- Field command
- Field information collection
- Inter agency coordination at field level

Management of field operations, planning, logistics, finance and administration

### **5.5: Checking and certification of logistics, equipments and stores**

Tapi district has various types of logistics and equipment. It should be check and certified by concern officer periodically. Disaster Management cell is regularly monitoring this activity and got certification of this equipment. (Detail information of Equipment is given in Annexure)

### **5.6: Operational check-up of Warning System**

Warning system are checking periodically like, Satellite phone, Hot Line, Telephone connection, GSWAN connectivity etc, In Pre- monsoon meeting also give direction for checking warning system like, port signals.

### **5.7: Operational check-up for Emergency Operation Centre**

Operational checkup of Emergency Operation Centre are carry out month wise and check out all facility and equipment in DEOC.

### **5.8: NGOs and other stakeholders coordination – identify their strengths and allocation of responsibilities in area/sector/duty/activities – Activate NGO coordination cell**

NGO and Voluntary group are doing very important activity and response during disaster. DDMA also organized capacity-building programmers, awareness programmers on Disaster Management for NGO and Voluntary group. For arrangement of water supply, temporary sanitation facilities, search and Rescue activity, Relief distribution can be sought with help of special agencies, NGOs and CBOs. (Information of NGO and Voluntary group refer Annexure)

### **Awareness Generation: -**

As a part of Preparedness Awareness, generation among community will be continuous process. From District to Taluka, Village level awareness programme must be conduct with the help of Print Media, Electronic media, folk media authority can create awareness among community.

## **5.9: Seasonal preparedness for Seasonal Disaster like Flood and Cyclone: -**

Whether personal or institutional, all collections are subject to risks that can seriously affect the lifetime and value of a collection. For many museums, galleries, and private collectors, an essential aspect in Collection Management is maintaining a loss prevention plan for seasonal disasters.

Hazards from these storms come in many forms including high winds, tornadoes, storm surges and flooding. Natural disasters make all of us acutely aware of our vulnerabilities to disaster. Fortunately, catastrophes of a large magnitude are rare, but disaster can strike in many ways. Large or small, natural or man-made, emergencies put collections in danger. Hazards can often be mitigated or avoided altogether by a comprehensive, emergency-preparedness plan. Such plans provide a means for recognizing and responding effectively to emergencies. The goal is to hopefully prevent damage or, at least, to limit the extent of the damage.

## **5.10: SDRN/IDRN data updation: -**

State disaster Resource network and India Disaster Resource Network is a crucial databases for response any disaster. SDRN, a decision support tool, is layered using the existing IT Wide Area Network (WAN) of the State - GSWAN. SDRN uses the map-based Geospatial Information Systems developed by the Gujarat based organization Bhaskaracharya Institute for Space Applications and Geo-Informatics (BISAG). Currently, the SDRN network is being integrated with the GIS based Decision Support System using Java, MS-Access, Visual Studio 2005 with Database SQL Server 2005. The GIS Visualize does not require any GIS software. The GIS visualize contains multi layered options depicting roads-highways, taluka, district boundaries, rivers, ports, airways, etc. SDRN and IDRN updation are regularly base work and it is updation.

### **India Disaster Resource Network (IDRN) : -**

IDRN, a web based information system, is a platform for managing the inventory of equipments, skilled human resources and critical supplies for emergency response. The primary focus is to enable the decision makers to find answers on availability of equipments and human resources required to combat any emergency. This database will also enable them to assess the level of preparedness for specific vulnerabilities. Total 226 technical items listed in the resource inventory. It is a nationwide district level resource database. Each user of all districts of the state has been given unique username and password through which they can perform data entry, data updation on IDRN for resources available in their district. The IDRN network has functionality of generating multiple query options based on the specific equipment, skilled human resources and critical supplies with their location and contact details.

the IDRN inventory of Tapi District is combined with Surat District's inventory so for the access of Tapi District's IDRN data we need to access Surat District's Portal on IDRN

## **5.11: Community Warning System, Education, Preparedness**

### **DRM Programme: -**

#### **GSDMA DRM activities:**

Disaster Risk Management Programme (DRM) has taken strong roots at various levels of administration in Gujarat. The Department of Revenue & Disaster Management is the nodal Department in Government of Gujarat that handles the subject with GSDMA. Disaster Management Committees are formed at various levels and are assigned the task of implementing the programme. Representation for these committees are drawn from elected representatives, officials of line departments, professional bodies, Civil Defense, NGO and CBO representatives and local opinion leaders. Major Activities are being carried out under DRM program are Plan Development at Various Levels, Emergency Resources Database maintain through SDRN / IDRN, Capacity Building through Trainings & Resource Mobilization, Disaster Awareness through Orientations, Campaigning, Media Management and IEC distribution. Coordinate District Administration for all Disaster Management Activities with expertise knowledge, logistics and fund allocation.

The Disaster Risk Management Program (DRM) being implemented by Gujarat State Disaster Management Authority (GSDMA) aims to strengthen the response, preparedness and mitigation measures of the community, local self-governments, the District administration and the State in Gujarat. Under the DRM Programme

#### **For the Prepared level specific plan following process will followed.**

##### **District Level Process**

1. Orientation of District level officers and PRI members including line department officials
2. Formation of District Disaster Management Committee
3. Development of manuals and guidelines Capacity building of DDMC members, government officials, training institutes, other concerned organizations at district level
4. Development of the District Disaster Management Plan
5. Use of IEC materials for awareness generation for preparedness, risk reduction and mitigation
6. Data updation on IDRN

##### **Taluka level process**

1. Orientation cum sensitize Taluka level officers and PRI members.
2. Formation of Taluka Disaster Management Committee
3. Capacity building of government officials
4. Development of the TDMP
5. Use of IEC material and media sources for create awareness at taluka level
6. TDMP update on SDRN

##### **City-ULB level process**

1. Orientation of City level officers, elected members & leaders.
2. Formation of CDMP
3. Capacity building of municipal official and concerned organizations at city level
4. Development of the CDMP.

5. Use of IEC material for create awareness at city level
6. CDMP updation on SDRN

### **Village Level Process**

1. Formation Cluster within 10 to 12 village and conduct cluster meetings over 10-12 villages
2. Organize Gramsabha in each village
3. Undertake PRA exercise at village level for hazard, vulnerability assessment and resource analysis
4. Facilitate the formation of the Village Disaster Management Committee (VDMC)
5. Conduct training programs for DMT and DMC Members and volunteers
6. Awareness campaigns on risk reduction mechanisms, Risk Transfer- insurance, disaster resistant construction
7. Developed Village Disaster Management Plan (VDMP)
8. Conduct mock drills for test the VDMP
9. Update VDMP twice in a year (by VDMC)

## **District-level Approaches to Mitigation, Prevention and Preparedness**

### **Preventive measure (for all disasters)**

Preventive actions have to be taken before a disaster to reduce the likelihood of a disaster (risk reduction) or the level of damage (vulnerability reduction) expected from a possible disaster. Vulnerability reduction is given priority over a risk reduction. The district can avail itself of four mechanisms (singularly or together) to reduce risk and vulnerability.

1. Long term planning for mitigation, preparedness and prevention investments in the district,
2. Enforcement of regulations, particularly Structural-building and safety codes and land use plans,
3. Review and evaluation of development plans and activities to identify ways to reduce risks and vulnerability, and,
4. Capacity building, including warning, the provision of relief and recovery assistance and community-level identification of risk and vulnerability.

The Collector, assisted by the District Development Officer, is responsible for developing plans and activities to effect mitigation, preparedness and prevention using the mechanism noted above. Base on the interim assessment of risk and vulnerabilities, the Tapi District will focus on the following areas for mitigation, preparedness and prevention;

- Resilience of lifeline systems (water, power and communications)
- Reduction in disaster impact on health care facilities, schools and roads
- Vulnerability reduction in flood-prone areas
- Vulnerability reduction to high winds
- Improvement of off-site Preparedness near Industrial sites.

### **Mitigation measure (for all disasters)**

#### **Town and Country Planning Acts and their related provisions:**

The Department of Disaster Management, being a member of all regulatory bodies will coordinate with the Town & Country Planning Board and constitute a committee of experts to evaluate the provisions of the State Town & Country Planning Act in place. The Committee will consist of experts from the fields of disaster management, town and country planning and legal experts and will be chaired by the State Relief Commissioner.

#### **Zoning Regulations and their related provisions:**

The State Urban Development Department, in consultation with the Department of Disaster Management will constitute a committee of experts with, members from the Institute of Town Planners, town development, State Pollution Control Board, Chairpersons of major Development Authorities/Notified Area Authorities, eminent faculty from planning, architecture and civil engineering departments of engineering colleges, eminent resource persons and such other experts nominated from time to time to study the existing zoning regulations and suggest necessary amendments to incorporate components for vulnerability reduction. The State Chief Town Planner will be the Convener of the Committee.

**Development Control regulations:**

The same committee of experts constituted to evaluate the zoning regulations will also evaluate the development control regulations and suggest measures to incorporate the disaster management concerns into them.

**Government-sponsored programmers and schemes:**

The State Planning Department will prepare a report on the government sponsored programmers, schemes running in the State and how far each programme/scheme addresses the issue of disaster management, and submit to the government. The Disaster Management Group which is constituted under the chairmanship of the Chief Secretary with concern Secretaries of the Departments of Disaster Management, Urban Development, Rural Development, Health, Home, Finance, Science & Technology, Transport, and Agriculture to evaluate and suggest disaster mitigation measures to be incorporated.

**5.12: Community Warning system-Early Warning System (EWS)**

It is often observed that communities living in remote and isolated locations do not receive timely and reliable warnings of impending disasters. Hence, it is necessary to have robust and effective early warning systems, which can play a crucial role in saving lives and limiting the extent of damage to assets and services. Outreach and reliability of warnings are key factors for planning and implementing response measures. Post disaster advisories like information on rescue, relief and other services are important to ensure law, order, and safety of citizens.

### **Early Warning Action Plan**

Type of Action	Flood	Cyclone	Chemical and industrial accidents	Tsunami
Existing EWS	Irrigation department /dam authority/ IMD ↓ Collector ↓ Mamlatdar/TDO ↓ Villages	IMD ↓ Collector ↓ Mamlatdar/TDO ↓ Villages	Industrial Association/industries ↓ DCG ↓ LCG ↓ Mamlatdar ↓ Villages	IMD ↓ Collector ↓ Mamlatdar /TDO ↓ Villages
Responsible Agency for warning dissemination	DDMC Mamlatdar office/TDO VDMC	DDMC Mamlatdar office/TDO VDMC	DDMC Mamlatdar office/TDO VDMC	DDMC Mamlatdar office/TDO VDMC
Trained personnel and operators available (Y/N)	Yes	Yes	No (Team to be formed and trained )	No (Team to be formed and trained )
Villages covered	All risk prone villages			
Villages/habitation not covered or difficult to access	Communities in remote locations ( fisher folk, salt pan workers, maldharis etc) VDMC			
Measures required to improve timeliness and outreach (For example, voice enabled SMS)	Contact of communities in remote locations (fisher folk, saltpan workers, Maldharis etc)			

### **During and Post Disaster Advisory Action Plan**

Type of Hazard	Flood	Cyclone	Earthquake	Drought	Chemical and industrial accidents	Tsunami
Responsible Agency	DDMC, Mamlatdar office & TDO					
Villages covered	All risk prone villages					
Villages/habitation not covered or difficult to access	communities in remote locations ( fisher folk, salt pan workers, Maldharis etc)					
Measures required for outreach	Contact of communities in remote locations ( fisher folk, salt pan workers, Maldharis etc)					

#### **5.13 Procurement various Resource : -**

Provide logistical support to government and agencies for procurement of relief goods, transportation, Tents, blankets, tarpaulins, equipment etc, and monitoring illegal price escalations, stocking etc. during crisis. DDMA and other local authority should do procurement of such resource and If they have such resource so keep them in ready to use in disaster situation.

### **5.14: Protocol and arrangement for VIP Visit**

It is important that immediately inform VIPs and VVIPs on impending disasters and current situation during and after disasters. Appeals by VIPs can help in controlling rumors and chaos during the disaster. Visits by VIPs can lift the morale of those affected by the disaster as well as those who are involved in the response. Care should be taken that VIP visits do not interrupt rescue and life saving work. Security of VIPs will be additional responsibility of local police and Special Forces. It would be desirable to restrict media coverage of such visits, in which case the police will liaise with the government press officer to keep their number to minimum.

### **5.15: Media Management**

The role of media, both print and electronic, in informing the people and the authorities during emergencies becomes critical, especially the ways in which media can play a vital role in public awareness and preparedness. Media through educating the public about disasters; warning of hazards; gathering and transmitting information about affected areas; alerting government officials, helping relief organizations and the public towards specific needs; and even in facilitating discussions about disaster preparedness and response. During any emergency, people seek up-to-date, reliable and detailed information.

The State Government has established an effective system of collaborating with the media during emergencies. At the State Emergency Operation Centre (SEOC), a special media cell has been create which is made operational during emergencies. Both print and electronic media are regularly brief at predetermined time intervals about the events as they occur and the prevailing situation on ground. A similar set up is also active at the District Emergency Operation Centre (DEOC).

### **5.16: Documentation**

Documentation is very important activity in disaster management. DDMA also appoint duty for Documentation to the information department. Documentation should be in good manner. It can be in summary and detail form. It is reliable and authenticate.

## Chapter 6:

### **Response Measures (Multi-Hazard):**

Response measures are those which are taken instantly prior to, and following, a disaster aimed at limiting injuries, loss of life and damage to property and the environment and rescuing those who are affected or likely to be affected by disaster. Response process begins as soon as it becomes apparent that a disastrous event is imminent and lasts until the disaster is declared to be over. Since response is conducted during periods of high stress in a highly time-constrained environment and with limited information and recourses (in majority of the cases), it is by far, the most complex of four functions of disaster management. Response includes not only those activities that directly address the immediate needs, such as search and rescue, first aid and shelters, but also includes systems developed to coordinate and support such efforts. For effective response, all the stakeholders need to have a clear perception/vision about hazards, its consequences and actions that need to be taken in the event of it.

The Revenue Department of the State is the Nodal Department for controlling, monitoring and directing measures for organizing rescue, relief and rehabilitation. All other concerned line departments should extend full cooperation in all matters pertaining to the response management of the disaster whenever it occurs.

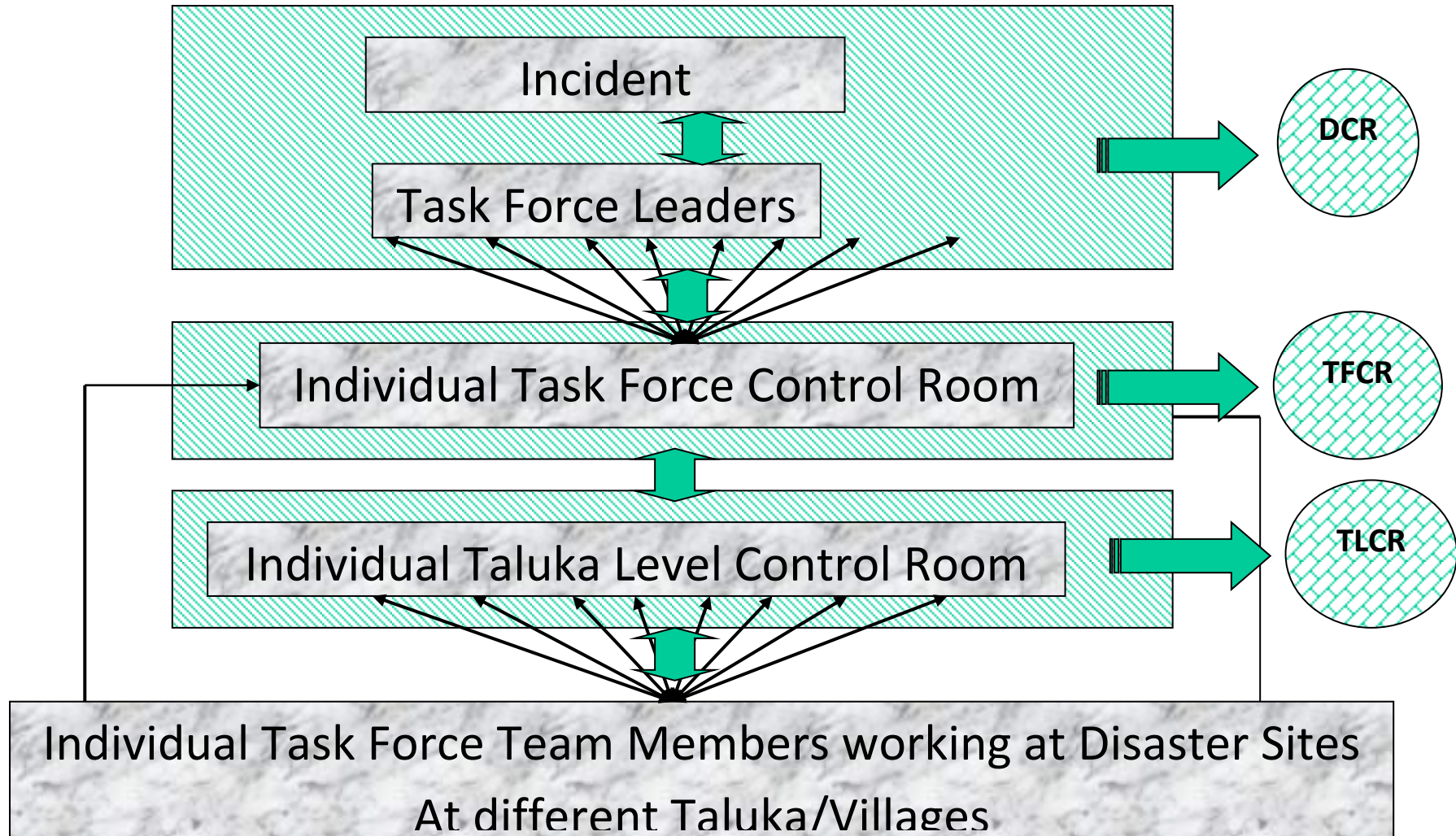
The District EOC, ERCs and other control rooms at the District level should be activate with full strength and begun active for search and rescue according disaster.

#### **6.1: Response flow chart**

**Response flow chart on nest page**



## Response flow chart and Communication Flow Chart during Disaster Management



## **6.2: Warning, alert and warning dissemination**

On the receipt of warning or alert from any such agency, which is competent to issue such a warning, or on the basis of reports from District Collector of the occurrence of a disaster, the response structure of the State Government will be put into operation. The Chief Secretary/Relief Commissioner will assume the role of the Chief of Operations during the emergency. The details of agencies competent enough for issuing warning or alert pertaining to various types of disasters are given below;

<b>Sr. No.</b>	<b>Disaster</b>	<b>Agencies</b>
1	Earthquakes	IMD/ISR
2	Floods	Meteorological Department, Irrigation
3	Tsunamis	IMD/ISR/INCOIS
4	Cyclones	IMD
5	Epidemics	Public Health Department
6	Road Accidents	Police
7	Industrial and Chemical Accidents	DISH, Police
8	Drought	Agriculture, Scarcity department
9	Fire	Fire Brigade, Police,
10	Rail Accident	Railways, Police,
11	Air Accident	Police, Collector, Airlines
12	Ammunition Depot-Fire	Army, Police,

1.Cyclone/flood forecasting is generally the responsibility of the Indian Meteorological Department (IMD). IMD is the nodal agency for providing cyclone-warning services. IMD's INSAT satellite based Cyclone Warning Dissemination System (CWDS) is one of the best currently in use in India to communicate cyclone warnings from IMD to community and important officials in areas likely to be affected directly and quickly. There are 19 CWDS stations in Gujarat.

2. After getting information from IMD, warning dissemination is a responsibility of State Government (COR). The COR under the Revenue Department is responsible for disseminating cyclone warnings to the public and Line Departments.

3. On receiving an initial warning, the office of the COR disseminates the warning to all Line Departments, the District administration and DG Police. Warning messages are transmitted through wireless to all districts and Talukas. District Collectors are provided with satellite phones and a Ham radio to maintain effective communication, even if terrestrial and cell-phone communication fails.

4. The state EOC and control rooms of the other line departments at the State level as well as district level also get the warnings. The control rooms are activated on receiving the warnings.

### **6.3: District CMG meeting**

At the District level, the District Crisis Management Group (DCG) is an apex body to deal with major chemical accidents, disaster and to provide expert guidance for handling them. DCG has a strength of 34 members which includes District Collector, SDM and Dy. Collector, DDO, Dy. Director – Industrial Safety & Health, DSP, PI, Fire Superintendent of the City Corporations or important Municipalities, Chief District Health Officer, Civil Surgeon, SE, Chief Officer, Dy. Chief Controller of Explosives, Commandant – SRPF, Group-I, Dy. Director – Information to name a few. At Taluka level Local Crisis Management Group (LCG) is formed for coordination of activities and executing the operations. DCGs as well as LCG meeting will meet periodically twice in a year.

### **6.4: Activation of EOC**

Emergency Operation Center (EOC) is a physical location and normally includes the space, facilities and protection necessary for communication, collaboration, coordination and emergency information management.

The EOC is a nodal point for the overall coordination and control of relief work. In case of a Level 1 Disaster the Local Control room will be activate, in case of a Level 2 disaster DEOC will be activated along inform with the SEOC.

### **6.5: Resource Mobilization**

Any disaster happens in district so resources are very important for response disaster. Resource mobilization is one of most important crucial activity. As mansion above about IDRN and SDRN portal are have information regarding which kind of resource are available and location of its. IDRN and SDRN should use for resource mobilization. DDMC, TDMC, CDMC and VDMC should be update regularly.

### **6.6: Media Management**

The role of media, both print and electronic, in informing the people and the authorities during emergencies becomes critical, especially the ways in which media can play a vital role in public awareness and preparedness through educating the public about disasters; warning of hazards; gathering and transmitting information about affected areas; alerting government officials, helping relief organizations and the public towards specific needs; and even in facilitating discussions about disaster preparedness and response. During any emergency, people seek up-to-date, reliable and detailed information.

The State Government has established an effective system of collaborating with the media during emergencies. At the State Emergency Operation Centre (SEOC), a special media cell has been created which is made operational during emergencies. Both print and electronic media is regularly briefed at predetermined time intervals about the events as they occur and the prevailing situation on ground. A similar set up is also active at the District Emergency Operation Centre (DEOC).

Media can play crucial role during response time. Media management to ensure precise communication of the impact of disaster and relief measures being taken and generate goodwill among community and other stakeholders;

### **6.7: Emergency Response Functions:**

Responsible for assuring specific operations according to objectives and plans to address the immediate impacts of the incident. Taskforces under the operation section will deal with specific functional tasks, such as search and rescue, the provision of water or shelter. The composition and size of these taskforces depends on the nature of the incident.

The District administration of Tapi has identified 16 expected task forces for key response operation functions that are describe below. Additional taskforces can be added under the operations section as needed by the circumstances of a disaster. Each Taskforce is led by one organization and supporter by other organizations.

#### **Emergency Operation Taskforce Functions**

<b>Sr. No.</b>	<b>Emergency Operation Taskforce</b>	<b>Functions</b>
1	Coordination and Planning	Coordinate early warning, Response & Recovery Operations
2	Administration and Protocol	Support Disaster Operations by efficiently completing the paper work and other Administrative tasks needed to ensure effective and timely relief assistance
3	Warning	Collection and dissemination of warnings of potential disasters
4	Law and Order	Assure the execution of all laws and maintenance of order in the area affected by the incident.
5	Search and Rescue (including Evacuation)	Provide human and material resources needed to support local evacuation, search and rescue efforts.
6	Public Works	Provide the personnel and resources needed to support local efforts to reestablish normally operating infrastructure.
7	Water	Assure the provision of sufficient potable water for human and animal consumption (priority), and water for industrial and agricultural uses as appropriate.
8	Food and Relief Supplies	Assure the provision of basic food and other relief needs in the affected communities.
9	Power	Provide the resources to reestablish normal power supplies and systems in affected communities.

10	Public Health and sanitation	Provide personnel and resources to address pressing public health problems and re-establish normal health care systems.
11	Animal Health and Welfare	Provision of health and other care to animals affected by a disaster
12	Shelter	Provide materials and supplies to ensure temporary shelter for disaster-affected populations
13	Logistics	Provide Air, water and Land transport for evacuation and for the storage and delivery of relief supplies in coordination with other task forces and competent authorities.
14	Survey (Damage Assessment)	Collect and analysis data on the impact of disaster, develop estimates of resource needs and relief plans, and compile reports on the disaster as required for District and State authorities and other parties as appropriate.
15	Telecommunications	Coordinate and assure operation of all communication systems (e.g; Radio, TV, Telephones, Wireless) required to support early warning or post disaster operations.
16	Media (Public Information)	Provide liaison with and assistance to print and electronic media on early warning and post-disaster reporting concerning the disaster.

The specific response roles and responsibilities of the taskforces indicated above is that these roles and responsibilities will be execute and coordinated through the ICS/GS system. For example, in flood, search & rescue would come under the Operations section, Transport would come under the Logistics Section and Public Information under the Public Information Unit.

**Each Department and Government agency involved in Disaster Management and Mitigation will:**

- Designate a Nodal officer for emergency response and will act as the contact person for that department/agency
- Ensure establishment of fail-safe two-way communication with the state, district and other emergency control rooms and within the organization.
- Emphasis on communication systems used regularly during LO with more focus on the use of VHF's with automatic repeaters, mobile phones with publicized numbers, VHF radio sets etc. It should be remembered that SAT phones fail during prolonged emergencies and electric failure if the phones cannot be re-charged.
- Work under the overall supervision of the IC / the District Collectors during emergencies.

## **Other Departmental plan incorporated in DMRP**

### **Agriculture**

#### **Prevention Activities:**

- Awareness generation regarding various plant diseases, alternate cropping practices in disaster-prone areas, Crop Insurance, provision of credit facilities, proper storage of seeds, etc.
- Hazard area mapping (identification of areas endemic to pest infections, drought, flood, and other hazards)
- Develop database village-wise, crop-wise, irrigation source wise, insurance details, credit etc.
- Regular monitoring at block level; the distribution and variation in rainfall
- Prepare the farmers and department officers to adopt contingency measures and take up appropriate course of action corresponding to the different emerging conditions.
- Detail response manuals to be drawn up for advising the farmers for different types of disasters, e.g., rain failure in July or September & development of a dynamic response plan taking into account weekly rainfall patterns.
- Develop IEC materials to advise the farming communities on cropping practices and precautionary measures to be undertaken during various disasters
- Improving irrigation facilities, watershed management, soil conservation and other soil, water and fertility management
- Measures keeping in mind the local agro climatic conditions and the proneness of the area to specific hazards.
- Promotion of alternative crop species and cropping patterns keeping in mind the vulnerability of areas to specific hazards
- Surveillance for pests and crop diseases and encourage early reporting.
- Encourage promotion of agro service outlets/enterprise for common facilities, seed and agro input store and crop insurance.

#### **Preparedness Activities before disaster seasons**

- Review and update precautionary measures and procedures, especially ascertain that adequate stock of seeds and other agro inputs are available in areas prone to natural calamities.
- Review the proper functioning of rain gauge stations, have stock for immediate replacement
- of broken / non-functioning gadgets/equipments, record on a daily basis rainfall data, evaluate the variation from the average rainfall and match it with the rainfall needs of existing crops to ensure early prediction of droughts.

#### **Response Activities:**

1. Management of control activities following crop damage, pest infestation and crop disease to minimize losses
2. Collection, laboratory testing and analysis of viruses to ensure their control and eradication
3. Pre-positioning of seeds and other agro inputs in strategic points so that stocks are readily available to replace damage caused by natural calamities.
4. Rapid assessment of damage to soil, crop, plantation, irrigation systems, drainage, embankment, other water bodies and storage facilities and the requirements to

salvage, replant, or to compensate and report the same for ensuring early supply of seeds and other agro inputs necessary for re-initiating agricultural activities where crops have been damaged.

5. Establishment of public information centers with appropriate and modern means of communication, to assist farmers in providing information regarding insurance, compensation, repair of agro equipments and restarting of agricultural activities at the earliest.

### **Recovery Activities**

1. Arrange for early payment of compensation and crop insurance dues.
2. Facilitate provision of seeds and other agro inputs.
3. Promotion of drought and flood tolerant seed varieties
4. Review with the community, the identified vulnerabilities and risks for crops, specific species, areas, which are vulnerable to repetitive floods, droughts, other natural hazards, water logging, increase in salinity, pest attacks etc. and draw up alternative cropping plans to minimize impacts to various risks.
5. Facilitate sanctioning of soft loans for farm implements.
6. Establishment of a larger network of soil and water testing laboratories
7. Establishment of pests and disease monitoring system
8. Training in alternative cropping techniques, mixed cropping and other agricultural practices which will minimize crop losses during future disasters

## **Health Department**

### **Disaster Events**

#### **Prevention Activities:**

- Assess preparedness levels at State, District and Block levels.
- Identification of areas endemic to epidemics and natural disasters
- Identification of appropriate locations for testing laboratories
- Listing and networking with private health facilities
- Developing a network of volunteers for blood donation with blood grouping data
- Strengthening of disease surveillance, ensuring regular reporting from the field level workers (ANMs/LHV etc) and its compilation and analysis at the PHC and District levels, on a weekly basis (daily basis in case of an epidemic or during natural disasters), forwarding the same to the State Disease Surveillance Cell and monthly feedback from the State to the district and from the District to the PHC
- Formation of adequate number of mobile units with trained personnel, testing facilities, communication systems and emergency treatment facilities
- Identification of locations in probable disaster sites for emergency operation camps
- Awareness generation about various infectious diseases and their prevention
- Training and IEC activities
- Training of field personnel, Traditional Birth Attendants, community leaders, volunteers,
- NGOs and CBOs in first aid, measures to be taken to control outbreak of epidemics during and after a disaster, etc
- Arrangement of standby generators for every hospital
- Listing of vehicles, repair of departmental vehicles that will be requisitioned during emergencies for transport of injured

## **Preparedness Activities before Disaster Seasons**

### **For heat wave :**

Preparation and distribution of IEC materials, distribution of ORS and other life-saving drugs, training of field personnel on measures to be taken for management of patients suspected to be suffering from heatstroke;

### **For flood and cyclone:**

- Assessment and stock piling of essential medicines, anti snake
- venom, halogen tablets, bleaching powders. ORS tablets, Pre-positioning of mobile units at vulnerable and strategic points

### **Response activities:**

Stock piling of life-saving drugs, detoxicants, anesthesia, Halogen tablets in vulnerable areas  
Strengthening of drug supply system with powers for local purchase during Level-0  
Situational assessment and reviewing the response mechanisms in known vulnerable pockets  
Ensure adequate availability of personnel in disaster site  
Review and update precautionary measures and procedures.

### **Sanitation**

- Dispensing with post-mortem activities during L1, L2 and L3 when the relatives and/or the competent authority are satisfied about cause of death
- Disinfections of water bodies and drinking water sources
- Immunization against infectious diseases
- Ensure continuous flow of information.

### **Recovery Activities**

- Continuation of disease surveillance and monitoring
- Continuation of treatment, monitoring and other epidemic control activities till the situation is brought under control and the epidemic eradicated
- Trauma counseling
- Treatment and socio-medical rehabilitation of injured or disabled persons
- Immunization and nutritional surveillance
- Long term plans to progressively reduce various factors that contribute to high level of vulnerability to diseases of population affected by disasters

## **Epidemics**

### **Preventive Activities:**

- Supply of safe drinking water, water quality monitoring and improved sanitation
- Vector Control programme as a part of overall community sanitation activities
- Promotion of personal and community latrines
- Sanitation of sewage and drainage systems
- Development of proper solid waste management systems
- Surveillance and spraying of water bodies for control of malaria
- Promoting and strengthening Primary Health Centers with network of paraprofessionals to improve the capacity of surveillance and control of epidemics
- Establishing testing laboratories at appropriate locations to reduce the time taken for early diagnosis and subsequent warning



- Establishing procedures and methods of coordination with the Health Department, other local authorities/departments and NGOs to ensure that adequate prevention and preparedness
- measures have been taken to prevent and / or minimize the probable outbreak of epidemics
- Identification of areas prone to certain epidemics and assessment of requirements to control and ultimately eradicate the epidemic
- Identification of appropriate locations and setting up of site operation camps for combating epidemics
- Listing and identification of vehicles to be requisitioned for transport of injured animals.
- Vaccination of the animals and identification of campsites in the probable areas
- Promotion of animal insurance
- Tagging of animals
- Arrangement of standby generators for veterinary hospitals
- Provision in each hospital for receiving large number of livestock at a time
- Training of community members in carcasses disposal

#### **Preparedness activities before disaster seasons**

- Stock piling of water, fodder and animal feed
- Pre-arrangements for tie-up with fodder supply units
- Stock-piling of surgical packets
- Construction of mounds for safe shelter of animals
- Identification of various water sources to be used by animals in case of prolonged hot and dry spells
- Training of volunteers & creation of local units for carcass disposal
- Municipalities / Gram Panchayats to be given responsibility for removing animals likely to become health hazards.

#### **Response Activities:**

- Control of animal diseases, treatment of injured animals, Protection of lost cattle.
- Supply of medicines and fodder to affected areas.
- Ensure adequate availability of personnel and mobile team.
- Disposal of carcasses ensuring proper sanitation to avoid outbreak of epidemics.
- Establishment of public information centre with a means of communication, to assist in providing an organized source of information.
- Mobilizing community participation for carcass disposal.

#### **Recovery Activities:**

- Assess losses of animals assets and needs of persons and communities.
- Play a facilitating role for early approval of soft loans for buying animals and ensuring insurance coverage and disaster proof housing or alternative shelters/ mounds for animals for future emergencies.
- Establishment of animal disease surveillance system

### **Water Supplies and Sanitation (GWSSB)**

#### **Prevention Activities:**

- Provision of safe water to all habitats
- Clearance of drains and sewerage systems, particularly in the urban areas

- Assess preparedness level
- Annual assessment of danger levels & wide publicity of those levels
- Identify flood prone rivers and areas and activate flood monitoring mechanisms
- Provide water level gauge at critical points along the rivers, dams and tanks
- Identify and maintain of materials/tool kits required for emergency response
- Stock-pile of sand bags and other necessary items for breach closure at the Panchayat level

#### **Preparedness Activities for disaster seasons**

- Prior arrangement of water tankers and other means of distribution and storage of water.
- Prior arrangement of stand-by generators
- Adequate prior arrangements to provide water and halogen tablets at identified sites to used as relief camps or in areas with high probability to be affected by natural calamities.
- Rising of tube-well platforms, improvement in sanitation structures and other infrastructural measures to ensure least damages during future disasters
- Riser pipes to be given to villagers

#### **Response Activities:**

- Disinfections and continuous monitoring of water bodies.
- Ensuring provision of water to hospitals and other vital installations.
- Provision to acquire tankers and establish other temporary means of distributing water on an emergency basis.
- Arrangement and distribution of emergency tool kits for equipments required for dismantling and assembling tube wells, etc.
- Carrying out emergency repairs of damaged water supply systems.
- Disinfection of hand pumps to be done by the communities through prior awareness activities & supply of inputs.
- Monitoring flood situation.
- Dissemination of flood warning.
- Ensure accurate dissemination of warning messages to GPs & Taluka with details of flow.
- Monitoring and protection of irrigation infrastructures.
- Inspection of bunds of dams, irrigation channels, bridges, culverts, control gates and overflow channels.
- Inspection and repair of pumps, generator, motor equipments, station buildings.
- Community mobilization in breach closure

#### **Recovery Activities:**

- Strengthening of infrastructure.
- Sharing of experiences and lessons learnt.
- Training to staff, Review and documentation.
- Development of checklists and contingency plans.
- Strengthening of infrastructure and human resources.
- Review and documentation.
- Sharing of experiences and lessons learnt.
- Training of staff.
- Development of checklists and contingency plans.

## **Police:**

### **Prevention Activities:**

- Keep the force in general and the RAF in particular fighting fit for search, rescue, evacuation and other emergency operations at all times through regular drills.
- Procurement and deployment of modern emergency equipments while modernizing existing infrastructure and equipments for disaster response along with regular training and drills for effective handling of these equipments.
- Focus on better training and equipments for RAF for all types of disasters.
- Rotation of members of GSDRAF so that the force remains fighting fit.
- Ensure that all communication equipments including wireless are regularly functioning and deployment of extra wireless units in vulnerable pockets.
- Ensure inter changeability of VHF communication sets of police and GSDMA supplied units, if required.
- Keeping close contact with the District Administration & Emergency Officer.
- Superintendent of Police be made Vice Chairperson of District Natural Calamity Committee.
- Involvement of the local army units in response planning activities and during the preparation of the contingency plans, ensure logistics & other support to armed forces during emergencies.

### **Response Plan:**

- Security arrangements for relief materials in transit and in camps etc.
- Senior police officers to be deployed in control rooms at State & district levels during L 1
- level deployment onwards.
- Deploy personnel to guard vulnerable embankments and at other risk points.
- Arrangement for the safety.
- Coordinate search, rescue and evacuation operations in coordination with the administration
- Emergency traffic management
- Maintenance of law and order in the affected areas
- Assist administration in taking necessary action against hoarders, black marketers etc.

## **Civil Defense**

### **Prevention Activities**

- Organize training programmes on first-aid, search, rescue and evacuation.
- Preparation and implementation of first aid, search and rescue service plans for major public events in the State.
- Remain fit and prepared through regular drills and exercises at all times.

### **Response Activities**

- Act as Support agency for provision of first aid, search and rescue services to other emergency service agencies and the public.
- Act as support agency for movement of relief.
- Triage of casualties and provision of first aid and treatment.
- Work in co-ordination with medical assistance team.
- Help the Police for traffic management and law and order.

## **Fire Services:**

### **Prevention Activities:**

- Develop relevant legislations and regulations to enhance adoption of fire safety measures.
- Modernization of fire-fighting equipments and strengthening infrastructure.
- Identification of pockets, industry, etc. which are highly susceptible to fire accidents or areas, events which might lead to fires, building collapse, etc. and educate people to adopt safety measures. Conduct training and drills to ensure higher level of prevention and preparedness.
- Building awareness in use of various fire protection and preventive systems.
- Training the communities to handle fire emergencies more effectively.
- VHF network for fire services linked with revenue & police networks.
- Training of masons & engineers in fireproof techniques.
- Making clearance of building plans by fire services mandatory.

### **Response Activities:**

- Rescue of persons trapped in burning, collapsed or damaged buildings, damaged vehicles,
- including motor vehicles, trains and aircrafts, industries, boilers, trenches & tunnels.
- Control of fires and minimizing damages due to explosions.
- Control of dangerous or hazardous situations such as oil, gas and hazardous materials spill.
- Protection of property and the environment from fire damage.
- Support to other agencies in the response to emergencies.
- Investigation into the causes of fire and assist in damage assessment.

## **Civil Supplies:**

### **Preventive Activities**

- Construction and maintenance of storage goods storage at strategic locations
- Stock piling of food and essential commodities in anticipation of disaster.
- Take appropriate preservative methods to ensure that food and other relief stock are not damaged during storage, especially precautions against moisture, rodents and fungus infestation.

### **Response Activities**

- Management of procurement
- Management of material movement
- Inventory management

### **Recovery Activities**

Conversion of stored, unutilized relief stocks automatically into other schemes like Food for Work. Wherever, it is not done leading to damage of stock, it should be viewed seriously.

## **Public Works/ Rural Development Departments**

### **Prevention Activities :**

- Keep a list of earth moving and clearing vehicles / equipments (available with Govt. Departments, PSUs, and private contractors, etc.) and formulate a plan to mobilize those at the earliest
- Inspection and emergency repair of roads/ bridges, public utilities and buildings

### **Response Activities**

- Clearing of roads and establish connectivity. Restore roads, bridges and where necessary make alternate arrangements to open the roads to traffic at the earliest
- Mobilization of community assistance for clearing blocked roads
- Facilitate movement of heavy vehicles carrying equipments and materials
- Identification and notification of alternative routes to strategic locations
- Filling of ditches, disposal of debris, and cutting of uprooted trees along the road
- Arrangement of emergency tool kit for every section at the divisional levels for activities like clearance (power saws), debris clearance (fork lifter) and other tools for repair and maintenance of all disaster response equipments.

### **Recovery Activities:**

- Strengthening and restoration of infrastructure with an objective to eliminate the factor(s)
- Which caused the damage.
- Sharing of experiences and lessons learnt.
- Training to staff, Review and documentation.
- Development of checklists and contingency plans.

### **Energy: DGVCL**

#### **Prevention Activities:**

- Identification of materials/tool kits required for emergency response.
- Ensure and educate the minimum safety standards to be adopted for electrical installation and equipments and organise training of electricians accordingly.
- Develop and administer regulations to ensure safety of electrical accessories and electrical installations.
- Train and have a contingency plan to ensure early electricity supply to essential services during emergencies and restoration of electric supply at an early date.
- Develop and administer code of practice for power line clearance to avoid electrocution due to broken / fallen wires.
- Strengthen high-tension cable towers to withstand high wind speed, flooding and earthquake, modernize electric installation, strengthen electric distribution system to ensure minimum damages during natural calamities.
- Conduct public/industry awareness campaigns to prevent electric accidents during normal times and during and after a natural disaster.

#### **Response Activities:**

- Disconnect electricity after receipt of warning.
- Attend sites of electrical accidents and assist in undertaking damage assessment.
- Stand-by arrangements to ensure temporary electricity supply.
- Prior planning & necessary arrangements for tapping private power plants like those belonging to ICCL, NALCO, RSP during emergencies to ensure uninterrupted power supply to the Secretariat, SRC, GSDMA, Police Headquarters, All India Radio, Doordarshan, hospitals, medical colleges, Collector Control Rooms and other vital emergency response agencies.

- Inspection and repair of high tension lines /substations/transformers/poles etc.
- Ensure the public and other agencies are safeguarded from any hazards, which may have occurred because of damage to electricity distribution systems.
- Restore electricity to the affected area as quickly as possible.
- Replace / restore of damaged poles/ salvaging of conductors and insulators.

## **Fisheries**

### **Prevention Activities**

- Registration of boats and fishermen.
- Building community awareness on weather phenomena and warning system especially on Do's and Don'ts on receipt of weather related warnings.
- Assist in providing life saving items like life jackets, hand radios, etc.
- Certifying the usability of all boats and notifying their carrying capacities.
- Capacity building of traditional fishermen and improvisation of traditional boats which can be used during emergencies.
- Train up young fishermen in search & rescue operation and hire their services during emergency

### **Response Activities**

- Ensure warning dissemination to fishing communities living in vulnerable pockets.
- Responsible for mobilizing boats during emergencies and for payment of wages to boatmen hired during emergencies.
- Support in mobilization and additional deployment of boats during emergencies.
- Assess the losses of fisheries and aquaculture assets and the needs of persons and communities affected by emergency.

### **Recovery Activities**

Provide compensations and advice to affected individuals, community.

## **Forest Department**

### **Prevention activities**

- Promotion of shelter belt plantation
- Publishing for public knowledge details of forest cover, use of land under the forest department, the rate of depletion and its causes
- Keep saws (both power and manual) in working conditions
- Provision of seedling to the community and encouraging plantation activities, promoting nurseries for providing seedlings in case of destruction of trees during natural disasters

## **Transport Department:**

### **Prevention Activities**

- Listing of vehicles which can be used for emergency operation.
- Safety accreditation, enforcement and compliance
- Ensuring vehicles follow accepted safety standards.
- Build awareness on road safety and traffic rules through awareness campaign, use of different IEC strategies and training to school children.
- Ensure proper enforcement of safety regulations Response Activities.

- Requisition vehicles, trucks, and other means of transport to help in the emergency operations.
- Participate in post impact assessment of emergency situation
- Support in search, rescue and first aid.
- Cooperate and appropriation of relief materials.

### **Recovery Activities**

- Provision of personal support services e.g. Counseling.
- Repair/restoration of infrastructure e.g. roads, bridges, public amenities.
- Supporting the GPs in development of storage and in playing a key role and in the coordination of management and distribution of relief and rehabilitation materials.
- The G.P. members to be trained to act as an effective interface between the community, NGOs, and other developmental organizations.
- Provide training so that the elected representatives can act as effective supportive agencies for reconstruction and recovery activities.

## **Panchayati Raj Institutions**

### **Preventive Activities**

- Develop prevention/mitigation strategies for risk reduction at community level.
- Training of elected representatives on various aspects of disaster management
- Public awareness on various aspects of disaster management
- Organize mock drills
- Promote and support community-based disaster management plans.
- Support strengthening response mechanisms at the G.P. level (e.g., better communication, local storage, search & rescue equipments, etc.).
- Clean drainage channels, trimming of branches before cyclone season.
- Ensure alternative routes/means of communication for movement of relief materials and personnel to marooned areas or areas likely to be marooned.
- Assist all the government departments to plan and priorities prevention and preparedness activities while ensuring active community participation.

### **Response Activities**

- Train up the G.P. Members and Support for timely and appropriate delivery of warning to the community.
- Clearance of blocked drains and roads, including tree removal in the villages.
- Construct alternative temporary roads to restore communication to the villages.
- PRIs to be a part of the damage survey and relief distribution teams to ensure popular participation.
- Operation emergency relief centers and emergency shelter.
- Sanitation, drinking water and medical aid arrangements.
- IEC activities for greater awareness regarding the role of trees and forests for protection during emergencies and also to minimize environmental impact which results owing to deforestation like climate change, soil erosion, etc.
- Increasing involvement of the community, NGOs and CBOs in plantation, protection and other forest protection, rejuvenation and restoration activities.

- Plan for reducing the incidence, and minimize the impact of forest fire.

#### **Response Activities:**

- Assist in road clearance.
- Provision of tree cutting equipments
- Units for tree cutting and disposal to be put under the control of GSDMA, SRC, Collector during Level 1.
- Provision of building materials such as bamboos etc for construction of shelters

#### **Recovery Activities:**

Take up plantation to make good the damage caused to tree cover.

### **Information & Public Relations Department**

#### **Prevention Activities**

- Creation of public awareness regarding various types of disasters through media campaigns.
- Dissemination of information to public and others concerned regarding do's and don'ts of various disasters
- Regular Liasoning with the media

#### **Response Activities**

- Setting up of a control room to provide authentic information to public regarding impending emergencies
- Daily press briefings at fixed times at district level to provide official version
- Media report & feedback to field officials on a daily basis from Level 1 onwards
- Keep the public informed about the latest emergency situation (area affected, lives lost, etc).
- Keep the public informed about various post-disaster assistances and recovery programmes.

#### **Revenue Department**

- Co-ordination with Govt. of Gujarat Secretariat and Officers of Govt. of India
- Overall control & supervision
- Damage assessment, finalization of reports and declaration of Level 1/Level 2 disasters
- Mobilization of finance

#### **Home Department**

- Requisition, deployment and providing necessary logistic support to the armed forces
- Provide maps for air dropping, etc.

#### **Gujarat Disaster Rapid Action Force**

#### **Response**



- To be trained and equipped as an elite force within the Police Department and have the capacity to immediately respond to any emergency.
- Unit to be equipped with life saving, search & rescue equipments, medical supplies, security arrangements, communication facilities and emergency rations and be self-sufficient.
- Trained in latest techniques of search, rescue and communication in collaboration with international agencies

## **6.8: Reporting**

### **Media & information Management:**

#### **Taskforce Leader: District Information Officer**

*Note: As per the above format the Media taskforce of the district will prepare its taskforce action plan.*

#### **➤ Activation of the Plan**

The District Disaster Response structure is activated on warning or occurrence of a disaster. Task Forces are activated on a specific request of the District Collector or according to pre-determined SOPs, as appropriate for the nature of the hazard or disaster. Activation can be:

- In anticipation of a District level disaster, or
- Occur in response to a specific event or problem in the district.

On activation, coordination of warning and response efforts will operate from the District Control Room and Information Centre (DCIC). The DCIC operations plan and SOPs are provided in Annexure.

To activate a task force, the Collector or designated Incident Commander will issue an activation order. This order will indicate:

- The nature of needs to be addressed
- The type of assistance to be provided
- The time limit within which assistance is needed
- The District or other contacts for the provision of the assistance
- Other Task Forces with which coordination should take place, and
- Financial resources available for task force operations.

Special powers are conferred on Incident Controller during disasters. The Principle organization leading each task force is responsible for alerting the appropriate authority when use of these special powers is required to accomplish warning, relief or recovery objectives given to a task force.

## **End of Emergency**

The end of emergency shall be declared through an ALL CLEAR siren/message. The Incident Controller in consultation with the ICS GROUP leaders shall declare the same once the situation is totally controlled and normalcy is restore.

## **6.9: Humanitarian Relief and Assistance**

Response defines provision for assistance/ intervention during and after emergency. Response plan includes clear Incident Command System (ICS) operated through emergency operation centers (EOCs) with effective 3C (Command, Control and Communication) mechanism. ICS covers early warning, search and rescue, humanitarian assistance, medical response, relief, temporary shelter, water and sanitation, law and order, animal care, public grievance, recovery and rehabilitation.

Specific Task Forces should be formed for Food distribution, drinking water management, medicine and health related facility, clothes distribution and other essential needs.

### **Helpline**

Establish Information/ reception centers and setting up telephone helpline numbers for public utility. True information must be release by media to the concerned person and in case of rescue activity public can call on help line number. in that point of view help line must be activate at DEOC

## **Arrangement of VIP Visit: -**

It is important that immediately inform to VIPs and VVIPs on impending disasters and current situation during and after disasters. Appeals by VIPs can help in controlling rumors and chaos during the disaster. Visits by VIPs can lift the morale of those affected by the disaster as well as those who are involved in the response. Care should be taken that VIP visits do not interrupt rescue and life saving work. Security of VIPs will be additional responsibility of local police and Special Forces. It would be desirable to restrict media coverage of such visits, in which case the police will liaise with the government press officer to keep their number to minimum.

**6.10: Responsibility Matrix should be evolve for each response measures with period and responsibility matrix for major stakeholders should be given in annexure**

**Responsibility matrix for response functions**

**TASKFORCE ACTION PLANS**

**Coordination and Planning:**

Coordinate early warning, response and recovery operations.

**Task Force Leader: Collector**

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>Before a Disaster</b>		
Establish a disaster management structure to the village level. (DDMC)	Links to State level and establishment of ICS structure	On-going
Develop disaster plans at all levels down to the village level. (DDMC)		On-going
Hold regular meetings on disaster management including government, NGOs and private sectors. (DDMC)		Quarterly
Continual training, including public awareness. (DDMA and Media Task Force)	Involvement of GSDMA	On-going
Check warning, communications and other systems (DDMC), including the use of drills		On-going
<b>Warning</b>		
Hold Crisis Management Committee (Collector)	Communications between Districts and with State Control Room	On receipt of warning.
Mobilize task forces at all levels (District, Taluka, village depending on disaster) (CMC, Telecommunications, Media Task Forces)	Communications systems and procedures	As decided by CMC.
Disseminate Information (CMC, Media Task Force)		As decided.
Mobilize resources to be positioned near vulnerable points depending on type of disaster.	Telecommunications systems, plans	As decided.
Establish alternate communications system (Telecommunications Task Force)		As decided.

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>Disaster</b>		
Start Search, Rescue and Evacuation activities. (CMC)	SAR Task Force operational	Immediately
Begin Collecting Information on extent of damage and areas affected. (CMC)	Assessment teams have communications and transport	Started in 4 hours
Start plan development and provide instructions on where Task Forces should go and what they should do. (CMC, Collector)	Information on damage and areas affected	Started in 4 hours
Mobilize outside resources (CMC)	Information on damage and needs	Started in 5 hours
Provide Public Information (CMC, Media Task Force)		should be started in 6 hours)
<b>12 Hours</b>		
Begin regular reporting on actions taken and status by Task Forces. (Task Forces)	Operating communications system	Started at 12 hours
Reassess damage information, resources, needs and problem areas/activities. (CMC)		Started at 12 hours
Begin rotation of staff (CMC)		Start at 12 hours
Establish regular liaison with State Control Room.	Working communications systems	Start at 12 hours
Shift focus of efforts to relief. (CMC)		Open
Restore key infrastructure (CMC through Public Works and other Task Forces)		Before 48 hours
<b>48 hours</b>		
Continue review and reassessment of operations (CMC)	Information on operations	
Conduct broad damage assessment (CMC and Damage Assessment Task Force)		
Establish Temporary Rehabilitation Plan (CMC)		
Begin demobilization based on situation. (CMC)		
Focus on creating a sense of normalcy. (CMC)		Before 72 hours
<b>72 hours</b>		
Start Rehabilitation activities. (CMC)	Plan	
Conduct detailed survey of damage and needs. (CMC and Damage Assessment Task Force)		
Begin regular reporting on operations	Information on operations	As early as possible
Restore all public and private sector services (CMC)		As early as possible
Lessons Learned meeting. (CMC and others)		After 2 weeks
Final Report/Case Study (CMC)		After activities completed

**Warning:**

Collection and dissemination of warnings of potential disasters

### Task Force Leader: Resident Additional Collector

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>Before a Disaster</b>		
Verify communication and warning systems are functioning – drills		Every 15 days
Have warning messages prepared in advance.		
<b>Warning</b>		
Receive and dispatch warnings. (Task Force)	Coordinate with Telecommunications Task Force	As received.
Verify warnings received and understood. (Task Force)		Within 1-2 hours of dispatch.
Independently confirm warnings if possible (Task Force)		As time allows.

### **Law and Order:**

Assure the execution of all laws and maintenance of order in the area affected by the incident.

### Task Force Leader: District Superintendent of Police

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>Before a Disaster</b>		
Evaluate expected disaster needs verses normal resources. (Task Force)		Completed in 8 days.
Estimate personnel and resources needed for disasters. (Task Force)	Based on standard for number of security personnel per population depending on severity of disaster	Completed in one week
Planning and coordination with Revenue Dept. (Task Force)		
Conduct drills, including public awareness raising. (Task Force)	Includes participation of Media Task Force	Every 45 days

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>Warning</b>		
Verify communications system. (Wireless Inspector)		1-2 hours of warning
Alert police and other Task Force members (Superintendent of Police)		1-2 hours of warning
Implement duty distribution SOP for personnel and other resources. (Superintendent of Police)		1-2 hours of warning
Develop preliminary estimate of requirements to support other Task Forces. (Superintendent of Police)		1-2 hours of warning
<b>Disaster</b>		
Get orders on deploying personnel from Control Room. (Superintendent of Police)	Operating communications system	Immediately
Determine status of staff and facilities. (Superintendent of Police)	Operating communications system	1-2 hours of disaster
Deploy additional staff. (Superintendent of Police)	Transport available	2-3 hours of disaster
Monitor resources. (Superintendent of Police)		1 hour of disaster
Establish VVIP unit. (Superintendent of Police)		Immediately
Request additional resources, if needed. (Superintendent of Police)	Operating communications system	4 hours of disaster
<b>12 hours</b>		
Institute regular reporting. (Task Force)	Operating communications systems	At start of period
Begin staff rotation. (Task Force)		At start of period
Address crowd control problems. (Task Force)		As needed
Implement anti-looting/anti-theft SOP. (Task Force)		As needed
Establish rumor control. (Task Force)	Involves Collector, Media Task Force, NGOs, and local eminent persons	As needed

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Provide information to public, e.g., road status. (Task Force)	Involves Control Room, Media Task Force, and Deputy Magistrate	As needed.
<b>48 hours</b>		
Implement a Force Management Plan (increase, reduction, redeployment, of forces). (Superintendent of Police)		From start of period
Plan for return to normal ((Superintendent of Police, Task Force, Control Room)		From 72 hours after the disaster
Conduct Lessons Learned Session (Task Force with input from other parties.)		1 week after the disaster
Final Report		2 weeks after the disaster

### **Search and Rescue (including evacuation):**

Provide human and material resources to support local evacuation, search and rescue efforts.

### **Task Force Leader: Deputy Commander (Civil Defense) /Chief Fire Officer**

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>Before a Disaster</b>		
Risk assessment and vulnerability mapping (Task Force)		Before warning
Develop inventory of personnel and material resources. (Task Force)		Before warning
Training (Task Force)	Input from GSDMA and NDMA	Before warning
Establish public education program. (Task Force)	Media Task Force	Ongoing
Establish adequate communications system. (Task Force)	Additional equipment required.	
Drills. (Task Force).		Before warning
Establish transport arrangements for likely SAR operations. (Task Force)	With Logistics Task Force	Before warning
Develop Rescue SOP. (Task Force)		Before warning
Action and (Who Should Take It)	Requirements or Conditions to be met for the action	Timeframe

	<b>can occur.</b>	
<b>Warning</b>		
Mobilize Task Force and SAR teams. (Task Force)		On warning
Verify equipment is ready. (Task Force)		On team activation
Confirm transport is ready. (Task Force)	Logistics Task Force.	On warning
Undertake precautionary evacuation. (Task Force)	Logistics and Shelter Task Forces	As directed.
Re-deploy teams and resources, if safe. (Task Force)	Logistics Task Force	Based on conditions
Start public awareness patrols. (Task Force)	Media, Law and Order and Logistics Task Forces.	As required
<b>Disaster</b>		
Assure safety of staff.		Immediately
Restore own communications. (Task Force)		Immediately
Dispatch rescue/evacuation teams based on assessments. (Task Force)	Input from Control Room.	Immediately
Call for additional resources if needed. (Task Force)	Communications systems in operation	3-4 hours of disaster
Provide reports on operations. (Task Force)		Starting at 3-4 hours
Begin handling of deceased per SOP. (Task Force)	Various Revenue officers and Police involved.	Starting at 3-4 hours
<b>12 Hours</b>		
Begin staff rotation system. (Task Force)		Starter at 12 hours
Begin specialized rescue (may begin earlier). (Task Force)	May require outside resources, coordination with Logistics Task Force	Started at 12 hours
Begin debris removal in cooperation with Public Works Task Force.	Focus on critical infrastructure. Liaison with Control Room	Start at 12 hours
Secure additional resources (e.g., fuel, personnel) for continued operations. (Task Force).		Start at 12 hours.
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>48 hours</b>		
Demolish/Stabilize damaged buildings in cooperation with Public Works Task Force.	Logistics Task Force, workers,	Starting at 48 hours.



	equipment.	
Demobilization, reconditioning, repair and replace equipment and other resources. (Task Force)		Based on nature of disaster.
Remain on stand-by for additional operations, particularly related to safety of recovery work. (Task Force).		As needed.
<b>72 hours</b>		
Lessons Learned meeting. (Task Force and others)		After 2 weeks.
Final Report. (Task Force)		After major activities completed.

### **Public Works:**

Provide the personnel and resources needed to support local efforts to re-establish normally operating infrastructure.

### **Task Force Leader: Executive Engineer, Roads and Buildings**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Inventory of personnel, equipment and status of infrastructure. (Task force)	Link to UNDP project data based development.	One week before warning.
Identify critical infrastructure. (Task Force)	Need to define what is critical infrastructure.	Before warning.
Identify alternate transport routes and publish map. (Task Force)		Before warning.
Plan for prioritized post-disaster inspection of infrastructure. (Task Force)		
Establish and maintain a resources and staffing plan. (Task Force)		
Plan to provide sanitation and other facilities for shelters. (Task Force)		
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Warning</b>		
Establish Control Room. (Task Force)		No later than 6 hours from warning
Mobilize Task Force and personnel.	Requires communications	No later than 6 hours from warning

Liaise with District Control Room. (Task Force)		No later than 6 hours from warning
Verify status and availability of equipment and re-deploy if appropriate and safe. (Task Force)	Coordination with Logistics Task Force and Control Room.	24 hours from warning
Review plans. (Task Force)		No later than 6 hours from warning
<b>Disaster</b>		
Begin damage assessment and inspections. (Task Force)	Coordination with Damage Assessment Task Force.	Within 12 hours of disaster
Develop operations plan and communicate to Control Room.		Within 12 hours of disaster
Mobilize and dispatch teams based on priorities. Teams will (1) repair, (2) replace, (3) Build temporary structures (e.g., rest facilities, shelters).	Coordination with Logistics, Water, Power Task Forces and Control Room.	Within 12 hours of disaster
Collaborate with other Task Forces.		Continuous
<b>12 Hours</b>		
Begin staff rotation system and manpower planning. (Task Force)		Start at 12 hours
Mobilize additional resources based on expected duration of operations. (Task Force).	Coordination with Logistics Task Force, Contractors. May need additional funding.	Started at 12 hours
Assure safety. (Task Force)		Start at 12 hours
Establish security arrangements. (Task Force)	Law and Order Task Force.	Start at 12 hours.
Provide public information on roads, access and infrastructure. (Media Task Force)	Coordination with Control Room	Start at 12 hours.
<b>48 hours</b>		
Start detailed survey. (Task Force)	In cooperation with Damage Assessment Task Force	Starting at 48 hours.
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
Begin reporting on operations (Task Force)		Starting at 3 days
Reconditioning, repair and replace equipment and other resources. (Task Force)		Based on nature of disaster
Plan and start demobilization. (Task Force)		Starting at 3 days
<b>72 hours</b>		
Develop long term restoration plan and start		From 72 hours

activities. (Task Force)		
Lessons Learned meeting. (Task Force and others)		After 2 weeks
Final Report. (Task Force)		After major activities completed

### **Water Supply:**

Assure the provision of sufficient potable water for human and animal consumption (priority), and water for industrial and agricultural uses as appropriate.

### **Task Force Leader: Executive Engineer, Gujarat Water Supply Board**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Establish water availability, capacities, reliabilities and portability. (Task Force)	Standard of 20 liters of drinking water per person per day.	3 months before warning.
Plan for alternate water delivery and storage (Task Force)	May need tankers, tanks, generator set.	3 months before warning.
Secure new and additional equipment. (Task Force)	Requires funding.	
Secure extra stocks of chemicals, expendable supplies and equipment. (Task Force)	May require additional funding.	3 months before warning.
Open Water Control Room in Monsoon. (Task Force)		Done.
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Warning</b>		
Establish staff rotation and shift system. (Task Force)		No later than 24 hours from warning
Provide public awareness on use of water. (Task Force)	Media Task Force.	No later than 24 hours from warning
Provide instructions to government and private sectors on protection of water supplies. (Task Force)		No later than 24 hours from warning
Mobilize Task Force members		24 hours from warning.
Mobilize additional personnel and vehicles. (Logistics Task Force)	May be difficult to locate additional personnel locally. Recourse to outside or contractor	24 hours from warning.

	sources may be required.	
Coordinate activities with Power and other Task Forces.	Involves District Control Room.	24 hours from warning.
Verify water source status and protection. (Task Force).		No later than 24 hours from warning.
<b>Disaster</b>		
Plan and prioritize supply of water to users. (Task Force)	Requires information on needs, damage and demand.	Completed by 24 hours into disaster.
Assess status and damage to water systems. (Task Force)	Coordination with Damage Assessment Task Force.	Completed by 24 hours into disaster.
Mobilize water tankers. (Task Force)	Coordination with Logistics Task Force and Control Room.	Started by 24 hours into disaster.
Repair/restore water systems, based on plan. (Task Force)	Coordination with Power and Logistics Task Forces.	Started by 24 hours into disaster.
Assure supply point/distribution security. (Law and Order Task Force)		Started as soon as distributions begin.
Coordinate distribution of water and storage and provision of information on safe water use. (Task Force).	Coordination with Media Task Force and Control Room	Started by 24 hours into disaster.
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>12 Hours</b>		
Establish temporary water systems. (Task Force)		Up to 72 hours from disaster.
Move toward permanent water supply system. (Task Force)		After 72 hours.
Complete long term recovery plan and needs. (Task Force)		After 72 hours.
Begin reporting and documentation. (Task Force)		From 48 hours.
Begin demobilization. (Task Force)	Coordinated with Control Room.	From 48 hours.
Lessons Learned meeting. (Task Force and others)		After 2 weeks.
Final Report. (Task Force)		After major activities completed

### **Food and Relief Supplies:**

Assure the provision of basic food and other relief needs in the affected communities.

#### **Task Force Leader: District Supply Officer**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Establish procedures and standards. (Task Force)	Need standards.	On-going.
Maintain two months stock of essential supplies. (Task Force)		Done.
Develop transportation plan. (Task Force)	In cooperation with Logistics Task Force.	Completed in 8 days
Develop list of NGOs. (Task Force)		Done
Plan staffing for disaster. (Task Force)		Done
Identify locations, which can be isolated and increase stock as needed. (Task Force)		On-going.
Identify food preparation locations. (Task Force)		Done
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Warning</b>		
Pass on warning. (Task Force)		Within 12 hours of receipt of warning.
Alert NGOs to prepare food. (Task Force)	Contact with NGOs.	Within 12 hours of receipt of warning.
Verify stock levels and make distribution plan. (Task Force)	Possible cooperation with Logistics Task Force.	Within 48 hours of receipt of warning.
Alert transport contractors to prepare for transport. (Task Force)	Coordinate with Logistics Task Force.	Within 5 hours of receipt of warning.
Mobilize staff. (Task Force)		Within 6 hours of receipt of warning.
<b>Disaster</b>		
Receive and respond to instructions from Control Room. (Task Force)		As received.
Monitor conditions of stocks and facilities. (Task Force)	Need for communications.	

Develop distribution plan. (Task Force)	Need information on needs and locations.	As requested by Control Room.
Order food packets and provide supplies as needed. (Task Force)	Coordination with Logistics Task Force.	Per distribution plan.
Establish relief supplies reception centers. (Task Force)	Coordinate with Control Room and Logistics Task Force.	As required.
<b>12 Hours</b>		
Start distribution operations. (Task Force)	In coordination with Logistics and Shelter Task Forces.	At beginning of period.
Formalize reporting, communications and monitoring. (Task Force)		Completed by 48 hours.
Start staff rotation system. (Task Force)		At beginning of period.
Begin mobilizing and managing additional supplies.	Coordination with Logistics and, Control Room.	Underway in 48 hours.
Establish security for all sites. (Law and Order Task Force)		At beginning of period.
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
Begin public announcement of distribution plan and standards. (Media Task Force)		Underway in 48 hours.
<b>48 Hours</b>		
Shift to normal operations. (Task Force)		Within 1 week.
Reconcile receipts and distribution records. (Task Force)		Within 30 days.
Continue providing relief to special areas/populations. (Task Force)		For 15 days from the disaster
<b>72 Hours</b>		
Restore Public Distribution System. (Task Force)		From 1 week after the disaster.
Lessons Learned meeting.		Within 14 days

### **Power:**

Provide resources to re-establish normal power supplies and systems in affected communities

**Task Force Leader: Superintending Engineer, Gujarat Electricity Board**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
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<b>Before a Disaster and Warning Phases</b>		
Develop inventory of current status of power system and resources. (Gujarat Electricity Board – GEB)		
Establish minimum stock levels and procure necessary additional stocks. (GEB)		
Conduct monthly meetings. (GEB)		On-going
Develop contact lists. (GEB)		
Conduct informal hazard and risk assessment. (GEB)		Completed.
Develop disaster plan. (GEB)		
<b>Disaster</b>		
Assess impact according to SOP. (GEB)	Coordinate with Control Room and Damage Assessment Task Force.	
Prioritize response actions. (GEB)	Need to establish priorities.	
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
Collect more information. (GEB)		
Mobilize additional resources. (GEB)	Coordination with Control Room and other Task Forces.	
Check for unforeseen contingencies.		
<b>12 Hours</b>		
Revise plans based on feedback and assessments. (GEB)		Continuous
Monitor status of actions. (GEB)		Continuous
Begin staff rotation plan. (GEB)		At beginning of period.
Disseminate public information. (Media Task Force)		At beginning of period.
Secure support for staff (food, lodging) from NGOs. (GEB)		
Assure security as needed. (Law and Order Task Force)	Coordinate with Control Room.	
Establish constant communications on needs, requirements and resources with Control Room and GEB/HQ.		
<b>48 Hours</b>		
Look for improvements in efforts. (GEB)		
Reinforce central coordination. (GEB)		
Conduct regular coordination meetings with other actors. (GEB)		
Begin formal documentation of efforts. (GEB)		
<b>72 Hours</b>		

Review shift plan for safety. (GEB)		
Plan for return to normal, including additional security if needed. (GEB)	Involvement of Law and Order Task Force.	

### **Public Health and Sanitation**

(Including first aid and all medical care):

Provide personnel and resources to address pressing public health problems and re-establish normal health care systems

#### **Task Force Leader: Chief District Health Officer**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Develop inventory of personnel, resources and facilities. (Task Force)		1 week.
Training. (Task Force)	Coordination with GSDMA	6 months.
Establish Control Room.		Completed.
Prepare for specific diseases by season (e.g., monsoon)		Completed.
Establish Epidemiological Reporting System (ERS). (Task Force)		Completed.
Identify disease vulnerable areas. (CDHO)		Completed.
Improve public awareness. (Media Task Force)		
<b>Warning</b>		
Send out warning to health facilities. (Task Force)		As received.
Mobilize health teams to possible disaster areas. (Task Force)	In coordination with Control Room.	As needed.
Activate Task Force for whole district. (CDHO)		On warning.
<b>Disaster</b>		
Begin first aid efforts. (Task Force)		Within 1 hour of disaster.
Establish status of health care system. (Task Force)	Requires communications.	Within 6 hours of disaster.
Begin referral of injured to upper-level facilities. (Task Force)		Within 1 hour of disaster.
Implement SOP for management of deceased. (Task Force)	Involves cooperation with Law and Order and SAR Task Force.	Within 1 hour of disaster.
Coordinate efforts with Control Room and other Task Forces.		Within 2-3 hours of disaster.



Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>12 Hours</b>		
Begin to call in outside resources. (Task Force)	Involves Telecommunications and Logistics Task Forces and Control Room.	Within 3 hours.
Establish temporary medical facilities where needed. (Task Force)	Coordination with Public Works, Power, Water, and Law and Order Task Forces.	Within 24 hours.
Expand surveillance of health status. (Task Force)		Within 24 hours.
Establish shift system for staff. (Task Force)		At beginning of period.
Visit and review health status in shelters. (Task Force)		Within 24 hours.
Develop health care system recovery plan. (Task Force)	In coordination with Control Room.	2-3 hours.
<b>48 Hours</b>		
Establish formal health care system reporting. (Task Force)		At beginning of period.
Start solid waste and vector control management SOP. (Task Force)		At beginning of period.
Start waste water management SOP. (Task Force)		At beginning of period.
Focus health status surveillance on children 0 to 5 years.		Implements in one week.
Establish public awareness and IEC efforts. (Task Force and Media Task Force)		At beginning of period.
<b>72 Hours</b>		
Develop demobilization plan.		By beginning of period.
Lessons Learned meeting.		Within 14 days of disaster.
Final Report		Within 14 days of disaster.

### **Animal Health and Welfare:**

Provision of health and other care to animals affected by a disaster

**Task Force Leader: Deputy Director, Veterinary and Animal Husbandry**

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
<b>Before a Disaster</b>		
Update animal list. List of staff & training for disposal of carcass. (Task Force)		Done.
Stock medical supplies and vaccines. (Task Force)		Done
<b>Warning</b>		
Alert staff (by phone). (Task Force)		As warnings received.
Distribute supplies to vulnerable areas. (Task Force)		During warning period.
Contact Control Room. (Task Force)		As required.
<b>Disaster</b>		
Remove and destroy carcasses. (Task Force)	Need fuel and logistics.	As soon as possible.
Treat injured animals. (Task Force)		As soon as possible.
Issue certification of death. (Task Force)	For insurance purposes.	Within 48 hours.
Call in staff from other districts as needed. (Task Force)		As needed.
Assist local authorities in survey of damage and reconciliation of records.		As required.
<b>48 Hours and Beyond</b>		
Assist local authorities in providing fodder as needed.		As required.
Collect feedback. (Task Force)		
Final Report. (Task Force)		In 15 days.

## **Shelter:**

Provide materials and supplies to assure temporary shelter for disaster-affected populations.

### **Task Force Leader: District Primary Education Officer**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Develop shelter operating procedures. (Task Force)		
Develop inventory of shelters (location, capacity,). (Task Force)	SDRN updating, project inventory.	On going
Provide information to other Task Forces on location of shelters. (Task Force)	Logistics, Water, Power, SAR, Food/Relief Supplies Task Forces and Control Room	
Training for shelter managers. (Task Force)	Need training module.	
<b>Warning</b>		
Mobilize shelter managers. (Task Force)		Within 6 hours of warning.
Review shelter locations for operating status. (Task Force)	Communications needed.	Within 6 hours of warning.
Open shelters as instructed.	Coordination with Control Room.	Within 6 hours of warning.
Mobilize additional resources for shelters and camps. (Task Force)	Cooperation with Logistics, Food and Relief Supplies, Water and Power Task Forces.	Within 6 hours of warning.
Provide public announcements on locations and status of shelters. (Media Task Force)		Within 6 hours of warning.
<b>Disaster</b>		
Beginning logging-in of occupants. (Shelter managers).		Immediately.
Report on status of shelters. (Task Force)	To Control Room.	As needed.
Plan for prioritization of shelter use. (Task Force)	Coordination with evacuation operations and Control Room.	Immediately.
Coordinate with other Task Forces on water, power, food, health, security. (Task Forces)		Immediately.

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Provide support and assistance to occupants. (Task Force)	Liaise with Animal Task Force on management of animal and with Health Task Force on health care.	
<b>12 Hours</b>		
Continue operations. (Task Force)		Continuously
Monitor shelter status and movement of people. (Task Force)		Continuously
Mobilize additional resources. (Task Force)	Coordinate with Control Room and Logistics Task Force.	Continuous.
<b>48 Hours and Beyond</b>		
Begin Demobilization as appropriate. (Task Force)		
Begin reconditioning/repairs to shelters. (Task Force)	In cooperation with Public Works Task Force.	As needed.
Lessons Learned session. (Task Force)	Involvement of other Task Forces and evacuees.	14 days after completion of operations.
Final Report. (Task Force)		1 month after completion of activities.

### **Logistics:**

Provide air, water and land transport for evacuation and for the storage and delivery of relief supplies in coordination with other Task Forces and competent authorities.

### **Task Force Leader: District Development Officer**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Conduct resource inventory (air/land/water transport and storage; inside and outside district.). (Task Force)		1 month.
Establish deployment requirements, procedures and alternate options. (Task Force)		1 month.
Conduct drills. (Task Force)		1 month.
Coordinate with other Task Forces.	Work though Control Room.	As needed.
<b>Warning</b>		
Alert and mobilize Task Force members. (Task Force)		Within 1 hour of receiving warning.
Mobilize transport and other resources for action on short notice depending on disaster expected. (Task Force)	Coordination with Control Room	Within 2-3 hours of warning.
Liaise with Control Room and SAR, Shelter and Food/Relief Supplies Task Forces.		Within 1 hour of receiving warning.
Review plan and determine if outside resources are needed. (Task Force)		Within 6 hours of receiving warning.
Plan for logistics based depending on nature of disaster. (Task Force)	Coordinate with Control Room and Food and Relief Supplies Task Force.	As needed.
<b>Disaster</b>		
Take action based on instruction from Control Room. (Task Force)		Within 2 hours of receiving warning.

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Continually review requirements and resources. (Task Force)		Continuous.
Develop operations plan. (Task Force)	Coordinate with Control Room and Food and Relief Supplies Task Force.	Within 2 hours of receiving warning.
Strengthen liaison with Control Room and key Task Forces. (Task Force)		Within 2 hours of receiving warning.
Verify quality of service. (Task Force)	Requires set standard of service and information on operations.	Daily.
<b>12 Hours</b>		
Respond to increased demand for logistics. (Task Force)		Continuous.
Begin rotation of staff. (Task Force)		At start of period.
Establish logistics bases as needed. (Task Force)	Coordinate with Control Room and Food and Relief Supplies Task Force.	Continuous.
Review plans and communicate with other Task Forces. (Task Force)		Continuous.
Begin regular reporting and documentation. (Task Force)		At start of period.
<b>48 Hours</b>		
Reassess needs and requirements. (Task Force)		Continuous.
Begin demobilization as appropriate. (Task Force)		
<b>72 Hours</b>		
Lessons Learned meeting.	Include Shelter, Food and Relief Supplies in meeting.	Within 14 days of disaster.
Final Report		Within 14 days of disaster.

### **Damage Assessment and Survey:**

Collect and analyze data on the impact of the disaster, develop estimates of resource needs and relief plans, and compile reports on the disaster as required for District and State authorities and other parties as appropriate.

#### **Task Force Leader: Resident Additional Collector**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Establish assessment procedures and forms. (Task Force)	Collaboration with GSDMA and COR.	
Compile baseline data. (Task Force)	Collaboration with GSDMA project.	
Establish assessment groups and teams. (Task Force)		
Develop an assessment coordination plan. (Coordination and Planning Task Force)		
Develop a communications plan. (Task Force)	In cooperation with Telecommunications Task Force	
<b>Warning</b>		
Mobilize Task Force. (Task Force)		Within 6 hours of warning.
Review Plan. (Task Force)		Within 6 hours of warning.
Consider pre-disaster impact assessment. (Task Force)	Based on expected nature of disaster.	Within 6 hours of warning.
Active village-level assessment teams. (Task Force)		Within 6 hours of warning.
<b>Disaster</b>		
Consider safety of assessment teams. (Task Force)		Immediately.
Start planning for assessment. (Task Force)		As initial impact information is available.
Begin initial assessment procedures. (Task Force)		When conditions allow.
Communicate assessment plans to Control Room. (Task Force)		Once initial plan is developed.
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>

<b>12 Hours</b>		
Publicly disseminate assessment plans and reports. (Media Task Force)		As available.
Initiate continual up-dating of assessment information. (Task Force)	Coordinate with Coordination and Planning Task Force.	
Initiate continual up-dating of assessment plans. (Task Force)	Coordinate with Coordination and Planning Task Force.	
Coordinate with other Task Forces. (Task Force)		
Begin staff rotation and secure more staff as needed.		At beginning of period.
<b>48 Hours</b>		
Prepare detailed damage, losses, needs assessment and long term recovery plans. (Task Force)	Coordinate with other Task Forces.	3-5 days after disaster.
Coordination of requirements, plans and activities.	Working through Control Room and Coordination and Planning Task Force.	Continuous.
<b>72 Hours</b>		
Lessons Learned meeting.	Include Shelter, Food and Relief Supplies in meeting.	Within 14 days of disaster.

### **Telecommunications:**

Coordinate and assure operation of all communications systems (e.g., radio, TV, phones, wireless) required to support early warning or post-disaster operations.

#### **Task Force Leader: Resident Additional Collector**

<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
<b>Before a Disaster</b>		
Develop telecommunications inventory and SOPs. (Task Force)	Telecommunications training.	
Coordinate with other Task Forces. (Task Force)		
Identify sites of vulnerable system components (e.g., switches). (Task Force)		
Ensure redundancy in communications systems. (Task Force)	May require close liaison with private sector providers.	
<b>Action and (Who Should Take It)</b>	<b>Requirements or Conditions to be met for the action can occur.</b>	<b>Timeframe</b>
Training in communication skills and methods. (Task Force)		



<b>Warning</b>		
Verify communication systems are working. (Task Force)		Within 24 hours of warning.
Mobilize Task Force.		Within 24 hours of warning.
Repair down systems and establish alternate communications systems. (Task Force)	Coordinate with Control Room.	Within 24 hours of warning.
Mobilize resources. (Task Force)		Within 24 hours of warning.
Facilitate telecom demands of other Task Force members. (Task Force)		
<b>Disaster</b>		
Check status of communications systems. (Task Force)		In 2-3 hours.
Identify damage to systems. (Task Force)		First information available in 2-3 hours.
Contact Control Room and other Task Forces on telecom needs. (Task Force)		In 2-3 hours.
Start repairs. (Task Force)		In 2 hours.
<b>12 Hours</b>		
Mobilize outside resources (may start earlier). (Task Force)		Continuous.
Complete plans for repairs and re-establishment of systems. (Task Force)	Coordinate with Control Room.	Continuous.
Liaise with Control Room and other Task Forces.		
Start shift system for staff. (Task Force)		At beginning of period.
<b>48 Hours and Beyond</b>		
Continue to assist other Task Forces. (Task Force)		
Continue repair work. (Task Force)		
Begin demobilization. (Task Force)		
Lessons Learned meeting.	Include Shelter, Food and Relief Supplies	Within 14 days of disaster.
Final Report. (Task Force)	Involve other Task Forces.	Within one months of end of operations.

### **Recovery Measures**

Recovery is defined as decisions and actions taken after a disaster with a view to “restoring or improving life and assets of the stricken community, while encouraging and facilitating necessary adjustments to reduce disaster risk. Recovery and reconstruction (R&R) or comprehensive rehabilitation is the last step in cycle of disaster management. In addition, this is the phase of new cycle, where the opportunity to reconstruction and rehabilitation should be utilized for building a better and more safe and resilient society.

Strategies for restoring physical infrastructure and lifeline services may be:

#### **Build Back Better:**

This ensures greater resilience, preparedness; and minimum loss in an event of future disaster.

#### **Participatory Planning:**

Infrastructure improvement measures need to be balanced with, or at least be in line with, the social and cultural needs and preferences of beneficiaries

#### **Coordination:**

A plan of recovery will help better coordination between various development agencies. Damage Assessment and Needs Assessment shall be the basis of recovery planning

Various Sectors for recovery process may be

- Essential Services- Power, Water, Communication, Transport, Sanitation, Health
- Infrastructural: Housing, Public Building and Roads
- Livelihood: Employment , Agriculture, Cottage Industry, Shops and Establishments

Basic services such as power, water supply, sanitation, wastewater disposal etc. should be restored in shortest possible time. Alternate arrangement of water supply, temporary sanitation facilities can be sought with help of special agencies.

Special arrangements for provision of essential services should be ensured. It can include creating temporary infrastructure for storage and distribution of water supply, running tankers, power supply and sanitation facilities

## **7.1: Damage Loss Assessment**

### **Restoration of Essential Services and Infrastructure**

Following tables are to be filled after an event of disaster

**Table No. 7.1**  
**Power**

Item/ Services	No. of unit damaged	No of villages affected	Populati on affected	Recovery measures	Implementi ng agency	Tentative Duration (Months)	Budget
Feeder							
Transformers							
HT Lines							
LT Lines							
Electric Poles							

**Note:** To be planned after initial damage assessment by departments

**Table No. 7.1**  
**Health**

Item/ Services	PHC (village name)	CHC	Sub Centre	Drug Store	Recovery Measures	Implementi ng agency	Tentative Duration (Months)	Budget
No of buildings damaged								
No of health centres inaccessible								
Refrigeratio n and other vital equipment for storage								
Drugs and medicines perished	(Location and qty)							
No of Ambulance damaged								

**Note:** To be planned after initial damage assessment by departments

**Table No. 7.3**  
**Social**

**People in need of immediate rehabilitation including psychosocial support (due to disaster)**

Village	Men	Women	Children	Total	Recovery Measures	Implementing agency	Tentative Duration (Months)	Budget

**Table No. : 7.4**  
**Water Supply**

Type	Village	No. of unit affected	Faliya/ Population affected	Recovery Measures	Implementing agency	Tentative Duration (Months)	Budget
Well							
Bore wells							
Pond							
Water Supply Disrupted							
Contamination							
ESR damaged							
GLR Damaged							
Sump damaged							
Pipe lines damaged							
Stand post damaged							
Cattle trough damaged							
Hand pump							

**Table No. 7.5**  
**Road and Transport**

Road damage	Location	Severity	Km	Recovery Measures	Implementing agency	Tentative Duration (Months)	Budget
Panchayat							
State Roads							
National Highway							
Nagar Palika							

Item/ services	Village /Ward	Population	Alternate road/route	Recovery Measures	Implementing Agency	Tentative Duration (Months)	Budget
Road Cut off							
Rail Connectivity							

**Table No. : 7.6  
Communication**

Type	Office/Tower Damaged	Villages affected	Recovery Measures	Implementing Agency	Tentative Duration (Months)	Budget
Landline connectivity	(No. of unit and location)					
Mobile connectivity						
Wireless Tower						
Radio						

**Table No. : 7.7**

**Food Supply**

**List of village affected by disruption in food supply**

Type	No. of godown damage	Type of grains perished (Ton)	Qty of grain perished (Ton)	Qty of grain at risk (Ton)	Recovery Measures	Implementing Agency	Tentative Duration (Months)	Budget
Civil Supply								
APMC								
Other								

**Table No. :7.8**

**Housing**

Partial Damage		Fully Damaged / Collapsed		Recovery Measures	Prog. / Scheme	Implementing Agency	Tentative Duration (Months)	Budget
Kucha	Pucca	Kucha	Pucca					

**Table No. :7.9**

**Public Utilities**

Public Buildings	Partial damage (No. of units)	Fully Damaged/ Collapsed (No. of Unit)	Recovery Measures	Prog/ Scheme	Implementing Agency	Tentative Duration (Months)	Budget
Panchayat							
Educational Buildings							
Aanganwadi							
Hospitals							
Office Buildings							
Market							
Police station							

**Table No. : 7.10**  
**Restoration of Livelihood**  
**Provisioning of Employment**

Occupational category	No. of workers	Implementing Agency	Tentative Duration (Months)	Budget
Skilled laborers				
Unskilled and Agricultural laborers				
Small and marginal farmers				
Construction workers				
Salt pan workers				
Fisher folk				
Weavers				
Other artisans				

**Table No. : 7.11**  
**Land Improvement**

Land erosion / siltation (Hectare)	HHs affected	Recovery Measures	Implementing Agency	Tentative Duration (Months)	Budget

**Table No.:7. 12**  
**Agricultural**

Crop failure (Hectare)	HHs affected	Recovery Measures	Implementing Agency	Tentative Duration (Months)	Budget

**Table No. : 7.13**  
**Nonfarm livelihood**

Cottage Industry	Extent of damage/disruption		Recovery Measures	Implementing Agency	Tentative Duration (Months)	Budget
	Tools and equipment (Specify no. and type)	Goods and material (Specify type and qty)				
Handloom						
Pottery						
Food Processing						
Diamond sorting etc						
Printing/ Dying						
Other						

**Table No. : 7.15****Shops and establishment**

Extent of damage/disruption			Recovery Measures	Implementing Agency	Tentative Duration (Months)	Budget
Building (No. and location)	Tools and equipments (Specify no. and type)	Goods and materials (Specify type and qty)				

**7.2: Long-term recovery programme**

Disaster recovery typically occurs in phases, with initial efforts dedicated to helping those affected meet immediate needs for housing, food and water. As homes and businesses are repaired, people return to work and communities continue with cleanup and rebuilding efforts. Many government agencies, voluntary organizations, and the private sector cooperate to provide assistance and support.

Some individuals, families and communities that are especially hard hit by a disaster may need more time and specialized assistance to recover, and a more formalized structure to support them. Specialized assistance may be needed to address unique needs that are not satisfied by routine disaster assistance programs. It may also be required for very complex restoration or rebuilding challenges. Community recovery addresses these ongoing needs by taking a holistic, long-term view of critical recovery needs, and coordinating the mobilization of resources at the, and community levels.

Oftentimes, committees, task forces or other means of collaboration formed with the goals of developing specific plans for Community recovery, identifying and addressing unmet or specialized needs of individuals and families, locating funding sources, and providing coordination of the many sources of help that may be available to assist. Some collaboration focuses on the community level and relies on the expertise of community planning and economic development professionals. Other collaborations focus on individual and family recovery and are coordinate by social service and volunteer groups. All such efforts hope to lay the groundwork for wise decisions about the appropriate use of resources and rebuilding efforts.

Under the National Response Framework, Emergency Support Function (ESF) #14 Community Recovery coordinates the resources of federal departments and agencies to support the long-term recovery of States and communities, and to reduce or eliminate risk from future incidents. While consideration of long-term recovery is imbedded in the routine administration of the disaster assistance and mitigation programs, some incidents, due to the severity of the impacts

and the complexity of the recovery, will require considerable interagency coordination and technical support.

ESF #14 efforts are driven by State/local priorities, focusing on permanent restoration of infrastructure, housing, and the local economy. When activated, ESF #14 provides the coordination mechanisms for the Federal government to:

- Assess the social and economic consequences in the impacted area and coordinate Federal efforts to address Community recovery issues resulting from an Incident of National Significance;
- Advise on the Community recovery implications of response activities, the transition from response to recovery in field operations, and facilitate recovery decision-making across ESFs;
- Work with State, local, and tribal governments; NGOs; and private-sector organizations to conduct comprehensive market disruption and loss analysis and develop a forward looking market-based comprehensive long-term recovery plan for the affected community;
- Identify appropriate Federal programs and agencies to support implementation of the Community recovery plan, ensure coordination, and identify gaps in resources available;
- Avoid duplication of assistance, coordinate to the extent possible program application processes and planning requirements to streamline assistance, and identify and coordinate resolution of policy and program issues; and
- Determine/identify responsibilities for recovery activities, and provide a vehicle to maintain continuity in program delivery among Federal departments and agencies, and with State, local, and tribal governments and other involved parties, to ensure follow-through of recovery and hazard mitigation efforts.

### **Grievances Redressed System**

Grievance redressed is important aspect in the context of providing need based assistance to affected communities with transparency and accountability. It also ensures the protection of their rights and entitlements for disaster response services.

#### **Grievance Redressed System**

No.	Key Person/ Establishment	Contact No	Address
1	DEOC/ RAC	02626-223332,224460, 224450	Collector Office-District Emergency Operation centre
2	DDO	02626-222141	District Panchayat
3	Police	02626-221500/222700	S.P.Office, Tapi

### **Matrix form of Short term and long-term recovery programme**

Disaster recovery has three distinct but interrelated meanings. First, it is a goal that involves the restoration of normal community activities that were disrupted by disaster impacts – in most people’s minds, exactly as they were before the disaster struck. Second, it is a phase in the emergency management cycle that begins with stabilization of the disaster conditions (the end of the emergency response phase) and ends when the community has returned to its normal routines. Third, it is a process by which the community achieves the goal normal life.



## **Chapter-8**

### **Financial Arrangement**

To ensure the long-term sustenance and permanency of the organization funds would be generated and deployed on an ongoing basis. There are different ways to raise the fund in the State as described below

#### **8.1: State Disaster Response Fund**

To carry out Emergency Response & Relief activities after any disaster the State Disaster Response Fund is making available to Commissioner of Relief, Revenue Department under which the Central Government will share 75% and the Govt. of Gujarat has to share 25% as per the recommendation of 13th Finance Commission.

#### **8.2: State Budget**

The Authority, submit to the State Government for approval a budget in the prescribed form for the next financial year, showing the estimated receipts and expenditure, and the sums which would be required from the State Government during that financial year. As per the provisions of The Gujarat State Disaster Management Act, 2003 the Authority may accept grants, subventions, donations and gifts from the Central or State Government or a local authority or any individual or body, whether incorporated or not.

#### **8.3: District Planning Fund**

For preparedness, mitigation, capacity building and recovery fund can be raised from MP or MLA grant as received for developmental work .also from departmentally arrangement.

#### **8.4: Partnerships**

There are projects/schemes in which funding can be done by a public sector authority and a private party in partnership (also called on PPP mode funding). In this State Govt. along with Private organizations and with Central Govt., share their part.

#### **8.5: Centrally Sponsored scheme**

<b>Name</b>	<b>Purpose</b>	<b>Finance Arrangements</b>	<b>Activities that can be take under scheme</b>	<b>Nodal Agency</b>
NDRF (NCCF)	Relief Assistance	100% Central Govt	Cash and kind relief	Revenue Department
SDRF (CRF)	Relief Assistance	75% Centre, 25% State	Cash and kind relief	Revenue Department
Planning Commission (13 Finance commission) Year 2011-15	Capacity Building	100% Centre	Trainings Awareness Generation IEC material Mock drills	Revenue Department

#### **8.6: Disaster Insurance**

##### **Risk Transfer / Risk Distribution**

Risk transfer or risk distribution refers to compensation cover against loss of life or assets in case of any disaster event. Insurance and reinsurance mechanisms and products against natural and

manmade disasters have rapidly evolved in last decade. According to UNISDR, “Insurance is a well-known form of risk transfer, where coverage of a risk is obtained from an insurer in exchange for ongoing premiums paid to the insurer. Risk transfer can occur informally within family and community networks where there are reciprocal expectations of mutual aid by means of gifts or credit, as well as formally, where governments, insurers, multi-lateral banks and other large risk-bearing entities establish mechanisms to help cope with losses in major events. Such mechanisms include insurance and re-insurance contracts, catastrophe bonds, contingent credit facilities and reserve funds, where the costs are covered by premiums, investor contributions, interest rates and past savings. Linkages with government insurance schemes like Rashtriya Swasthya Bima Yojana, Aam Admi Bima Yojana can be extensively taken up for risk transfer. Linkages can be done for teaching staff and children with existing insurance schemes. Livestock insurance can also be taken up through animal husbandry department. Coverage of crop insurance should be increased specifically for small and marginal farmers. Weather/rainfall insurance can also be explored with various existing schemes. *(DDMC should draw up their own risk transfer/distribution framework and action plan in this regard )*

## **Chapter-9**

### **Maintenance of Plan**

#### **9.1: Annual Plan Maintenance**

DDMC shall compile its learning and proposed new mechanisms for improvement of the capacity to deal with disasters.

#### **Schedule for updation of plan**

Every year as a part of pre monsoon DDMC will update plan in the month of May-June and revise in the month of October-November every year

Plan Maintenance is a dynamic process of updating pal on a periodic basis. It is based on learning and from the last disaster (As per under Mention)and mockdrill exercise.

<b>Major Learning based on experience of last disasters and mock drills (on planning/implementation/compliance)</b>	<b>Revisions adopted/proposed</b>	<b>Remarks</b>
Flood	May-June	Highly affected area of the district
Chemical disaster	Jan, Feb	Due to MAH unit (Under Factory act-1947)
Tsunami	June, Oct	Due to coastal belt
Cyclone	May-June and Oct.Nov.	Due to Coastline

# ANNEXURE

## **Annexure: 1**

### **Profile Of Tapi District**

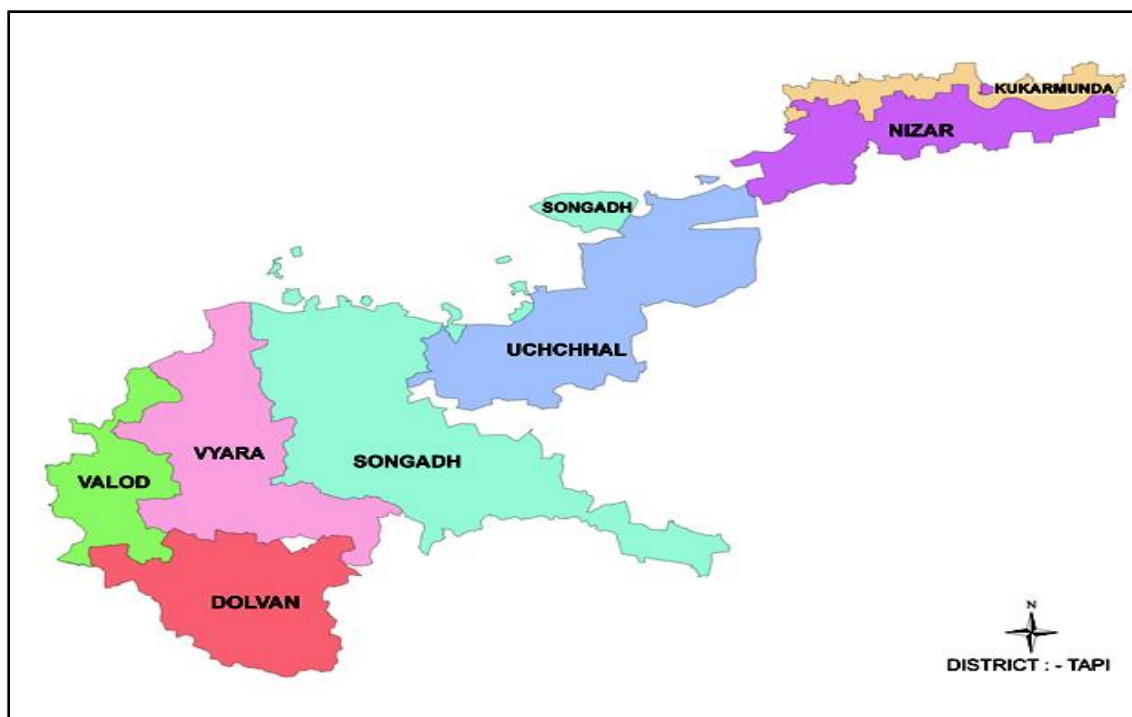
#### **Tapi - An Overview**

- Located in the southern part of Gujarat.
- On 27 September 2007, the district of Surat was bifurcated into two new districts, viz. Surat district with its headquarter at Surat and Tapi district with its headquarter at Vyara.
- The newly constituted Tapi district consists of seven talukas viz. Vyara, Songadh, Uchchal, Nizar and Valod, Dolvan, Kukarmunda.
- Vyara and Songadh in Tapi district are known for dense forests with a major production of bamboos.
- Key tourist destinations: Fort of Songadh, Gaumukh, Dosvada Dam, Hindustan Bridge, Tapi River and Ukai Dam.

#### **Tapi -Demography**

<b>Geographical Location</b>	<b>73.5° to 74.23 ° East (Longitude)</b> <b>21.0 ° to 21.23 ° North (Latitude)</b>
<b>Temperature</b>	<b>45 ° Centigrade (Maximum)</b> <b>10 ° Centigrade (Minimum)</b>
<b>Average Rainfall</b>	<b>1926 mm</b>
<b>Rivers</b>	<b>Tapi, Midoda, Purna and Ambika, Rangawali</b>
<b>Area</b>	<b>3434.64 Sq Km</b>
<b>District Headquarter</b>	<b>Vyara</b>
<b>Talukas (Blocks)</b>	<b>7</b>
<b>Population (as per 2011 Census)</b>	<b>8,07,022</b>
<b>Population Density</b>	<b>249 persons per Sq Km</b>
<b>Sex Ratio</b>	<b>1004 females per 1000 males</b>
<b>Literacy Rate</b>	<b>69.23 %</b>
<b>Seismic Zone</b>	<b>Zone III (Moderate damage risk zone)</b>

#### **Area & Administration:-**



### Population along with Taluka and Nagarpalika As per Population Census 2011

Sr	Name of Taluka	Numbers of villages	Population
<b>1</b>	Vyara Rural	91	1,35,798
	Vyara city	-	39789
<b>2</b>	Dolvan	58	92,702
<b>3</b>	Valod	40	90,566
<b>4</b>	Singadh Rural	177	1,90,084
	Songadh (city)	-	26,515
	Ukai (CT)	-	7,453
	Bhurivel (CT)	-	5,730
<b>5</b>	Uchchhal	68	88,416
<b>6</b>	Nizar	36	69,524
<b>7</b>	Kukarmunda	51	60,445
<b>Total</b>		<b>521</b>	<b>8,07,022</b>

## RainFall Data – 2014 to 2023 (Last 10 year)

Sr	Taluka name										
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	Valod	978	1010	1110	945	1576	1986	1900	1119	2083	1653
2	Vyara	1212	1148	1158	1272	1366	2056	1909	1150	2302	1380
3	Songadh	877	970	1215	1207	1272	2165	1611	955	1743	1426
4	Uchchhal	576	550	802	977	822	1445	976	584	1087	683
5	Nizar	424	750	697	738	625	1474	1140	589	890	768
6	Dolvan	-	-	1283	1667	1893	2146	2451	1631	2614	1898
7	Kukarmunda	-	-	787	838	620	1306	1289	877	965	985
<b>Total Rain</b>		<b>4067</b>	<b>4428</b>	<b>7052</b>	<b>7644</b>	<b>8174</b>	<b>12578</b>	<b>11276</b>	<b>6915</b>	<b>11684</b>	<b>8760</b>

## Annexure:- 2

### History of past disasters in District

History of Disasters Details of disasters in the district during the last five years:

#### During Monsoon By drowning in rainwater runoff

Year	Incident reason	Number of villages affected	Number of affected families	Total Human death	Animal death Total	Partly damaged Houses	A total loss Houses
2019	By drowning in rainwater runoff	9 villages flooded	Evacuation of 628 people	6	-	517	27
	Crushed by falling trees in the wind	-	-	1	-		
	By falling lightning	-	-	3	10		
2020	By drowning in rainwater runoff	3 villages flooded	Valod-64 Vyara-16 Uchchl-09	6	-	374	19
	by the collapse of the house	-	-	1	-		
	By falling lightning	-	-	2	3		
2021	By drowning in rainwater runoff	-	-	1	05	108	16
	By falling lightning				05		
2022	By drowning in rainwater runoff	Dolvan-16 Uchchal-1 Valod-6	Dolvan-339 Uchchl-20 Valod-260	6	6	190	51
2023	By falling lightning	3- Kukarmunda	222	3	2	46	355

- Tapi District is vulnerable with the multitudes of hazards but Tapi District is in Seismic zone III so the 2001 Earthquake has not caused much devastating effect, even it has not coastal areas so the vulnerability from Tsunami or Cyclone is even nominal. Seasonal flood is affecting Tapi regularly but the effect of flood is nominal too. From KAPS 103 villages of Tapi District are vulnerable but till date no major incident of Nuclear emergency has been reported. In sort in Tapi district, particularly no major incident has been taken place.



## **Annexure: 3**

### **Taluka Wise Flood POTENTIAL Affected Villages List and Evacuation Plan of Tapi District**

- Most of the villages in the district are located in riverine and low lying areas. Evacuation may be necessary during heavy to very heavy rains or due to high inflow of water from above catchment areas of Ukai Dam. Heavy rains in Dang district in Dolvan and Valod talukas have led to overflow of water in rivers leading to inundation of some riverside villages. So that time, it is District Administrative capable of managing track- truck management of tracks such as ST buses. For which RTO, GSRTC, Local Municipality, R&B Department, other status private agency experience can help. In case of major search operation/ helicopter/ where the situation is beyond capacity, the State Emergency Operation will be transferred in coordination with District.
- Safe shelters available at those locations such as schools, community halls, vadi, or other family premises and Religious places will be used during the shift. The details are included in the DDMP. During the evacuation situation, for the necessary arrangements like food/water/medical etc. to the affected people, operations will be carried out by the Police/District Supply Department/District Health Department to deliver the necessary equipment to the place on an immediate basis.

## Details of flood prone villages and shelters

### Taluko-Vyara

SR NO	FLOOD PRONE VILLAGES NAME	POPULATION OF VILLAGE	POTENTIALLY AFFECTED POPULATION	SHELTER PLACE NAME	A SHELTER CAN CONTAIN SEVERAL PERSON	ARE ELECTRICITY, DRINKING WATER AND SANITATION FACILITIES AVAILABLE IN THE SHELTER PLACE	CONTACT PERSON	LATITUDE & LONGITUDE
1	KANJA	1422	86	PRIMARY SCHOOL KANJA	210	YES	(1) USHABEN R. TABIYAR MO. 9586576931 (REVENUE TALATI) (2) ANKURBHAI P. PATIL MO.8866315055 (TCM) (3) RAKESH. CHAUDHARI MO.9825367319 (PRINCIPAL)	21.456304N 73.357803E
				PRIMARY SCHOOL UNCHAMALA	1100	YES	(1) USHABEN R. TABIYAR MO. 9586576931 (REVENUE TALATI) (2) SANJAY T. CHAUDHARI MO.9727881280 (TCM) (3) SANJAY CHAUDHARI MO.9925893611 (PRINCIPAL)	21.2137941N 73.37603554E
2	KALAVYARA	1173	120	PRIMARY SCHOOL KALAVYARA	150	YES	(1) USHABEN R. TABIYAR MO. 9586576931 (REVENUE TALATI) (2) ANKURBHAI P. PATIL MO.8866315055 (TCM) (3) SURESH CHAUDHARI MO.9978332431 (PRINCIPAL)	21.2700898N 73.3911052E

				PRIMARY SCHOOL UNCHAMAL A		YES	(1) USHABEN R. TABIYAR MO. 9586576931 (REVENUE TALATI) (2) SANJAY T. CHAUDHARI MO.9727881280 (TCM) (2) SANJAY G. CHAUDHARI MO.9925893611 (PRINCIPAL)	21.2137941N 73.37603554E
3	BEDKUVA DUR	4008	1100	PRIMARY SCHOOL BEDKUVA DUR U.B.V. BEDKUVAD UR	1200	YES	(1) USHABEN R. TABIYAR MO. 9586576931 (REVENUE TALATI) (2) ANKURBHAI P. PATIL MO.8866315055 (TCM) (3) RADHABEN CHAUDHARI MO.7874763819 (PRINCIPAL)	21.0258191N 73.5046218E
4	KANPURA	3399	400	RAMJI MANDIR KANPURA	400	YES	(1) SANJAYBHAI I. RAVAL MO.9714523999 (REVENUE TALATI) (2) TULSI P. DAVE MO.7990485450 (TCM) (3) NAYANA CHAUDHARI MO.8980878554 (PRINCIPAL)	21.11044126N 73.4036348E
				TALUKA PRIMARY SCHOOL	647	YES	(1) SANJAYBHAI I. RAVAL MO.9714523999 (REVENUE TALATI) (2) TULSI P. DAVE MO.7990485450 (TCM) (3) PADMABEN R. CHAUDHARY MO. 9408514866 (PRINCIPAL)	21.1127578N 73.3793033E

5	PANVADI	2012	270	PRIMARY SCHOOL PANVADI COMMUNIT Y HALL PANVADI	70 150	YES	(1) NISHABEN P. BHANDERI MO.9624880779 (REVENUE TALATI) (2) JIGNESHBHAI S. GAMIT MO.9712711479 (TCM) (3) KRISHNABEN L. BAMBHANIYA MO.8154989210 (PRINCIPAL)	21.0971649N 73.3809453E
6	ANDHARVADI NAJIK	758	180	PRIMARY SCHOOL ANDHARVA DI NAJIK	100	YES	(1) NISHABEN P. BHANDERI MO.9624880779 (REVENUE TALATI) (2) JIGNESHBHAI S. GAMIT MO.9712711479 (TCM) (3) PRAGANABEN P. CHAUDHARI MO.7990600616 (PRINCIPAL)	21.0928837N 73.3637113E
				PRIMARY SCHOOL PANVADI	80	YES	(1) NISHABEN P. BHANDERI MO.9624880779 (REVENUE TALATI) (2) JIGNESHBHAI S. GAMIT MO.9712711479 (TCM) (3) KRISHNABEN L. BAMBHANIYA MO.8154989210 (PRINCIPAL)	21.0971649N 73.3809453E

## Taluko-Dolvan

Sr. No	Flood prone villages Name	Population of villages	Potentially affected population	Shelter place name	A Shelter can contain several people	Are electricity, drinking water and sanitation facilities available in the shelter place	Contact person		Latitude & Longitude
1	Antapur	3591	300	Primary School Antapur	1000	Yes	Shankarbhai Ramjibhai Bhil	8469665752	20.82/73.44
2	Andharvadidur	2514	200	Primary School Andharvadidur	700	Yes	Ilaben Chaudhari	9638444010	20.92/73.40
3	Pithadara	2203	100	Primary School Pithadara	200	Yes	Devsingbhai Ruvjibhai Chaudhari	9879417262	20.90/73.42
4	Pipalvada	1775	150	Primary School Pipalvada	200	Yes	Nahinbhai Kuhlalbhahi Kokani	9978143991	20.87/73.48
5	Vankla	2590	175	Primary School vankla & Shadna Vidhyalaya Vankla	500	Yes	Gamit Shankarbhai	9374196750	20.94/73.94
6	Dhamandevi	831	100	Primary School Dhamandevi	200	Yes	Bhavnaben Patel	8160229927	20.97/73.45
7	Garavan	728	50	Primary School Garavan	100	Yes	Sahenbhai Vadesingbhai Chaudhari	9825483202	20.96/73.43
8	Ambapani	338	40	Primary School Ambapani	100	Yes	Pratimaben Patel	9265036907	20.97/73.51
9	Chunavadi	2025	500	Primary School Chunavadi	550	Yes	Satishbhai A. Chaudhari	9427480712	20.82/73.44
10	Padamdungari	1925	600	Primary School Padamdungari	750	Yes	Hirenbhai	9712940484	20.84/73.41
11	Raygadh	1386	500	Community Hall Raygadh	600	Yes	Shwetaben J. Bhoje	8849358894	20.82/73.49
12	Pathakvadi	2242	275	Primary School Pathakvadi	600	Yes	Mahendhbhai Kanubhai Chaudhari	9638538179	20.86/73.34
13	Kumbiya	1827	400	Primary School Kumbiya	500	Yes	Pravinbhai Patel	7874760154	20.93/73.46
14	Kamlapur	451	70	Primary School Kamlapur	200	Yes	Urmilaben Lallubhai Gamit	9316454911	20.93/73.34

15	Karanjkhed	2225	120	Primary School Karanjkhed	200	Yes	Bharatbhai Naginbhai Patel	9428153889	20.98/78.87
16	Besaniya	1329	70	Primary School Besaniya	100	Yes	Limbashiya Chandkanth Ghelabhai	9574235210	20.99/78.92
17	Borkuchchh	876	50	Primary School Borkuchchh	100	Yes	Isvarbhai K. Patel	9925664847	20.82/73.43
18	Behdaraipura	3912	250	Primary School Behdaraipura	300	Yes	Jitendhabhai Patel	8469761121	20.92/73.26
19	Panchol	1806	50	Primary School Panchol	250	Yes	Nileshbhai Patel	9978891585	20.92/73.37
20	Dholka	890	70	Primary School Dholka	100	Yes	Ratilalbhai Jatariabhai Kokani	9825308208	20.93/73.46
21	Umarvavdur	2495	100	Primary School Umarvavdur	200	Yes	Sinaben Narsingbhai Chaudhari	9978455980	20.85/73.36
22	Palasiya	1352	100	Primary School Palasiya	200	Yes	Sandeep M. Chaudhari	9979983870	20.93/73.39

## Taluko-Valod

Sr.No	Flood prone Villages Name	Population of village	Potentially affected population	Shelter place Name	A Shelter can contain several person	Are electricity, drinking water and sanitation facilities available in the shelter place	Contact person	Latitude & longitude
1	Siker	2623	200	Mukhya primary school siker	50	Yes	(1) Diptiben Patel Mo.8980065700 (2) Priyankaben Rajeshbhai Dhodiya M.9601262606	21.069999 73.209999
2	Valod	16075	550	Auditya Samajni Vadi, Valod	150	Yes	Vijyaben Rahimbhai Nayak	21.048104 73.261875
3	Goddha	1146	60	Mukhya primary school Goddha	40	Yes	(1) Tarulattaben Pareshbhai Halpati M.9512441373 (2) Manubhai Patel M.9687618455	20.978008 73.2734375
4	Andhatri	3391	100	Mukhya primary school Andhatri	40	Yes	(1) Bhavnaben Mineshbhai Dhodiya M.9913799943 (2) Urmilaben R Gamit M.9712255381	20.970010 73.300003
5	Dumkhal	1133	50	Primary School Dumkhal	50	Yes	(1) Mukulbhai Chaudhari Mo.8980878485 (2) Nileshbahi Chhatubhai Chaudhari M.9926139466	20.990007 73.249999
6	Vedchhi	2750	40	Gram sala vedchhi Primary school	50	Yes	(1) Rahulbhai Kalyanbhai Chaudhari M.9106991959 (2) Arjunbhai Gamit M.9427987302	21.047491 73.292564
7	Pelad Buhari	1660	50	Pelad buhari Primary school	40	Yes	(1) Dharmeshkumar M.9638684867 (2) Ranjanben Anilbhai Halpati M.9723623805	20.964784 73.310256
8	Buhari	5905	200	Ramji Temple Buhari	150	Yes	(1) Vanitaben Rameshbhai Mo.9726210109 (2) Kaminiben Patel M.8980422445	20.966372 73.309066

9	syadla	1999	60	Beldha Primary School	25-30	Yes	(1)Ushaben Vinodbhai Halpati M.9979682332 (2)Pareshsinh Parmar M.9825176223	21.135384 73.236907
10	Kamalchhod	6430	100	Kamalchhod Mukhya Primary School	60	Yes	(1)Rinaben Alpeshbhai Chuadhari Mo.9537772010 (2)Truptiben A Solanki M.8347227225	21.090000 73.279998
11	Kanjod	1280	60	Kanjod Primary School	60	Yes	(1)Sandipbhai Ganeshbhai Chaudhari Mo.9925133624 (2)Khandubhai Chaudhari M.9925896765	21.010007 73.239997
12	Mordevi	2051	70	Mordevi Mukhya Primary School	50	Yes	(1)Ritaben Anilbhai Chaudhari Mo.9924749655 (2)Dharmeshbhai Patel M.9537976689	21.011073 73.209992
13	Ambach	2672	50	Primary School Ambach	30	Yes	(1)Amrutbhai Sumanbhai Chaudhari M.9099843408 (2)Dipakbhai Chaudhari M.9913661318	21.040015 73.319999



## Taluko- Songadh

Sr No	Flood prone villages Name	Population of village	Potentially affected population	Shelter place name	A Shelter can contain several person	Are electricity, drinking water and sanitation facilities available in the shelter place	Contact person school Teacher name	Latitude & longitude
1	VAGHNERA	1872	445	VAGHNERA PRIMARY SCHOOL VEKUR PRIMARY SCHOOL	475	YES	VINABHAI BHIKHABHAI GAMIT <b>9879788826</b>	lon.21.2587054 lat.73.5035127
2	GHASIYAMEDHA	1962	179	GHASIYAMEDHA PRIMARY SCHOOL	300	YES	CHAUDHARI DHARMESH MANSING 9979391530	lon.21.269739 lat.73.433550
3	JAMAPUR	1314	497	JAMAPUR PRIMARY SCHOOL	200	YES	GAMIT PRASHANTKUMAR NANUBHAI 9913319494	lon.21.258919 lat.73.470880
4	PANCHPIPALA	1494	739	PANCHPIPALA PRIMARY SCHOOL DHAJAMBA SCHOOL AASHRAMSHALA SHISHOR	750	YES	GAMIT RAVINDRABHAI FULJIBHAI 8758411666	lon.21.258960 lat.73.453155
5	SHISHOR	2011	436	SHISHOR PRIMARY SCHOOL ASHRAMSHALA SHISHOR	600	YES	CHAUDHARI DHIRU LALJIBHAI 8980432395	lon.21.235535 lat.73.426051

6	BHANPUR	382	105	BHANPUR PRIMARY SCHOOL	120	YES	CHAUDHARI INDUBEN KARSANBHAI 9978173775	lon.21.244585 lat.73.452256
7	DOSVADA	3971	97	DOSVADA PRIMARY SCHOOL	500	YES	GAMIT SHIRISHBHAI MANABHAI 9879450026	lon.21.123951 lat.73.494927
8	KANALA	1140	112	KANALA PRIMARY SCHOOL	250	YES	CHAUDHARI VAISHALIBEN RAMESHBHAI 9913638155	lon.21.101699 lat.73.480360
9	CHORVAD	1863	130	CHORVAD PRIMARY SCHOOL	300	YES	GAMIT VASANJIBHAI BHILIYABHAI 8980685481	lon.21.118852 lat.73.474612
10	SINGPUR	2389	250	SINGPUR PRIMARY SCHOOL	300	YES	PIYUSHKUMAR DIPAKCHANDRA PAREKH 9909648616	lon.21.25622 lat.73.52161
11	VEKUR	874	150	VEKUR PRIMARY SCHOOL	200	YES	HASMUKHBHAI HIMJIBHAI CHAUDHARI 9979484266	lon. 21.26413 lat.73.49005
12	BORISAVAR	543	150	BORISAVAR PRIMARY SCHOOL	200	YES	CHHANABHAI SOMLABHAI CHAUDHARI 7487874748	lon.21.26153 lat.73.48928

13	VADIBHESROT	2750	300	VADIBHESROT PRIMARY SCHOOL	350	YES	PRITIBEN HIRABHAI BHAVSAR 9662164833	lon. 21.26936 lat.73.51955
14	KUMKUVA	1490	200	KUMKUVA PRIMARY SCHOOL	250	YES	VIJAYBHAI BABUBHAI VASAVA 9979391448	lon. 21.13554 lat.73.53243
15	KHANJAR	1833	250	KHANJAR PRIMARY SCHOOL	300	YES	RAMILABEN CHHAGANBHAI GAMIT 9537488942	lon. 21.11356 lat.73.51873
16	KHARSHI	1520	150	KHARSHI PRIMARY SCHOOL	200	YES	HARSHADKUMAR SHAMBHUBHAI DHOLIYA 8000687757	lon. 21.10499 lat.73.50754
17	KHADKA-CHIKHALI	1251	150	KHADKA-CHIKHALI PRIMARY SCHOOL	200	YES	CHAUDHARI SHASHIKALABEN RAMANBHAI 9712782593	lon. 21.09729 lat. 73.45895

## Taluko- Uchchhal

Sr No	Flood prone villages Name	Population of village	Potentially affected population	Shelter place name	A Shelter can contain several person	Are electricity, drinking water and sanitation facilities available in the shelter place	Contact person	Latitude & longitude
1	KAROD	3318	50	PRIMARAY SCHOOL KAROD	350	YES	9925959910	21.300177 73.935904
2	VAGHSEPA NANA	389	30	PRIMARAY SCHOOL VAGHSEPA NANA	80	YES	9825379473	21.273818 73.843522
3	NARNPUR	7295	250	PRIMARAY SCHOOL NARNPUR	600	YES	8156080240	21.273679 73.832122
4	KHABDA	1782	150	PRIMARAY SCHOOL KHABDA	200	YES	9727872410	21.197011 73.810244
5	BABARGHAT	2369	70	PRIMARAY SCHOOL BABARGHAT	250	YES	6356264103	21.215689 73.802595
6	SUNDARPUR	2178	70	PRIMARAY SCHOOL SUNDARPUR	150	YES	9979391397	21.185762 73.797929
7	UCHCHHAL	3377	160	PRIMARAY SCHOOL UCHCHHAL	200	YES	9925026990	21.176431 73.770636
8	BHINTBUDRAK	2627	60	PRIMARAY SCHOOL BHINTBUDRAK	150	YES	9909839854	21.179379 73.758253

9	BHINTKHURD	4791	80	PRIMARAY SCHOOL BHINTKHURD	100	YES	9714280777	21.201949 73.739988
10	KATASVAN	2772	230	PRIMARAY SCHOOL KATASVAN	300	YES	9099252408	21.148916 73.726990
11	SAKARDA	1210	90	PRIMARAY SCHOOL SAKARDA	160	YES	9979760451	21.162108 73.715939
12	JAMKI	1203	30	PRIMARAY SCHOOL JAMKI	60	YES	9979146692	21.169477 73.679911
13	AARKATI	1150	1150	PRIMARAY SCHOOL AARKATI	150	YES	9099851204	21.292805 73.874430

## Taluko- Nizar

Sr. No.	Flood prone villages Name	Population of village	Potentially affected population	Shelter place Name	A Shelter can contain several person	Are electricity, drinking water and sanitation facilities available in the shelter place	Contact person	Latitude & Longitude
1	Vyaval	1570	430	Primary School Vyaval	500	Yes	Shri Vijaybhai Samudre Mo.9426471304	21.516847 74.321018
2	Hingni	938	260	Primary School Hingni	300	Yes	Shri Shailesh Ghaskata Mo.9725336136	21.510022 74.280693
3	Velda	10116	670	Primary School Velda	800	Yes	Shri Shivabhai Gulabbhai Patel 9638715806	21.482363 74.146097
4	Juna Kavth	775	125					
5	Sulvada	1408	410	Primary School Sulvada	500	Yes	Shri Manubhai Prajapati Mo.9427893890	21.511044 74.326086
6	Mubarakpur	1801	450	Primary School Mubarkpur	500	Yes	Shri Surendrabai N. Patel Mo.8141367122	21.489697 74.183986
7	New Anturli	1993	250	Primary School New Anturli	300	Yes	Shri Prakash G. Nikwade 9427812738	21.483610 74.230673

## Taluko-Kukarmunda

Sr. No.	Flooda Prone Villages Name	Population of Village	Potentially affected population	Shelter place Name	A Shelter can contain several person	Are electricity, drinking water and sanitation facilities available in the shelter place	Contact Number	Longitude Latitude
1	Zumkati	474	100	Primary School, Zumkati	150	Yes	9913779718	21.32'11N 74.0'28"E
2	Panibara	461	50	Primary School, Kevdamoi	200	Yes	9726206451	21.50"N 74.086"E
3	Rajpur	2041	40	Primary School, Kevdamoi	200	Yes	9537178303	21.54"E 74.014"E
4	Varpada	173	29	Primary School, Varpada	100	Yes	9898148976	21.53"E 74.014"E
5	Kevdamoi	681	133	Primary School, Kevdamoi	200	Yes	97262006451	21.54"E 74.08"E
6	Tulsa	701	40	Primary School, Tulsa	100	Yes	9428144678	21.54"E 74.081"E
7	Pishavar	1850	70	Primary School, Pishavar	500	Yes	992557437	21.5366"E 74.3099"E
8	Ubhad	970	200	Primary School, Ubhad	200	Yes	9737915199	21.53"E 74.31"E
9	Juna Ashrava	523	300	Primary School, Ashrava	300	Yes	9913016818 9925442035	21.55"E 74.16"E
10	Sadgavan	1722	400	Primary School, Sadgavan	500	Yes	9429172268	21.54"E 74.27"E
11	Juna Utavad/Juna Gorasa	1594	800	Primary School, Ashta	950	Yes	9427893821	21.54"E 74.014"E

## Annexure :- 4

### Name of Villages to be potential Flooded by Uaki Dam on Tapi River

(A per Ukai dam flood memorandum plan)

#### **Ukai Dam**

Sr No	If Discharge water from Dam (Cusec)	Name of Taluka Name	Probable Impact Name of Village	signal
1	6,90,370 Cusec	Vyara	(1) Kanja	<b><u>Blue signal</u></b> Be prepared for Evuaction
2	8,90,760 Cusec	Vyara	(1) Kanja (2) Bedkuvadur (3) Kala Vyara	<b><u>Blue signal</u></b> Be prepared for Evuaction
3	10,00,000 Cusec	Vyara	(1) Kanja (2) Bedkuvadur (3) Kala Vyara	<b><u>Red signal</u></b> Evacuate immediately.

#### **Doswada Dam**

-:Details of villages potential affected by Doswada Dam (Gateless) overflow:-

Sr No	Name of Taluka Name	Probable Impact Name of Village	Remark
1	Songadh	1.Kumkuva 2. Khanjar 3.Doswada 4.Kanala 5.chorwad 6. Khadka-chikhli	-
2	Vyara	1. Vazghari 2.Chikhli 3.Musa 4.Kanpura 5.Panwadi	-
3	Valod	1.Kamalchhod 2.syadla	



## CHAPTER 7

### TAPI BASIN

#### **7.00 TAPI BASIN :**

**7.1** The flood forecasting for Tapi basin is looked after by Superintendent Engineer, Hydrological Observation Circle, Gandhinagar through his Executive Engineer, Tapi Division (C.W.C) at Surat. He has established various wireless stations at locations upstream of Surat to obtain the details about rainfall and discharge in the river. The gauge and rainfall data are being communicated through wireless stations located on the main river as well as on tributaries.

**7.2** Name of villages/dams where Wireless Stations are located to report rainfall and gauge discharge are as under :

##### **A. C.W.C's / Wireless Stations.**

1. Teska	Madhya Pradesh.
2. Chikhaldia	Maharashtra
3. Ded Talai	Madhya Pradesh.
4. Burhanpur	Madhya Pradesh.
5. Lakhpuri	Maharashtra State
6. Gopal Kheda	Maharashtra State
7. Yerli	Maharashtra State
8. Hathnur Dam	Maharashtra State
9. Bhusaval	Maharashtra State
10. Savkheda	Maharashtra State
11. Gidhade	Maharashtra State
12. SaranKheda	Maharashtra State
13. Girna Dam Site	Maharashtra State
14. Dhulia on Panjan river	Maharashtra State
15. Dehigaon	Maharashtra State
16. Ukai Dam	Gujarat State
17. Surat (Gauge Data only)	Gujarat State

##### **B. State's Wireless Stations.**

1. Ukai	Gujarat State
2. Ver-II	Gujarat State
3. Lakhigam	Gujarat State
4. Chopadvav	Gujarat State
5. Kakdi Amba	Gujarat State
6. Ukai Dam Site	Gujarat State

**7.3** Plan of the river basin showing the wireless stations together with gauge discharge and rain gauge stations and time lag statement is also appended vide Annexure : 7-A.

**7.4** Ukai Reservoir is located at Ukai on River Tapi which is moderating the flood on Tapi river.

**7.5** Due to remoteness of Ukai head works and poor reliability of the telephone system during heavy rains and floods, it may not be possible for the Superintending Engineer Ukai (Civil) Circle, Ukai to communicate the flood message to the State Flood Control Cell, Gandhinagar. The

Executive Engineer, Tapi Division (C.W.C) Surat shall therefore help to pass on such information to Flood Control Cell, Gandhinagar.

**7.6** For flood control operation of Ukai Dam using forecast supplied by the Central Water Commission, the project authorities of Ukai Dam i.e. Superintending Engineer, Ukai (Civil) Circle, Ukai and Focal Officer of the Tapi Basin i.e. Superintending Engineer, Surat Irrigation Circle, Surat are advised to thoroughly refer the guidelines contained in the newly adopted Manual on Flood Control Operation of Ukai Dam issued vide, Govt. Resolution No. - PRCH-1097-4605-(120) Part-3-K dated 4.8.2000 and part modified operation policy vide Govt. letter No.Ukai/2006(23)/Part-I-J Dtd.11.06.2008.

The Executive Engineer, Tapi Division, CWC, Surat will start issuing inflow forecast for Ukai Dam for a flood of peak discharge of 1000 cumec and above irrespective of Water Level of reservoir. 12-Hourly regular inflow forecast will be issued by him based on the hydro-meteorological data of base station Gidhade and Ukai. These forecast will be monitored regularly and revised(if required) after 6 hours based on hydro-meteorological data of Sarankheda and Surat. In addition to 12-hours regular forecast and 6 hourly revised forecasts, advisory warning for expected high flood for Ukai Dam would also be issued when the reservoir level is above 100.59 m (330.00 ft.)

For issue of flood forecasts and advance warning, the CWC has now defined following three situations viz. Normal, High Alert and Emergency.

#### **7.6.1 Normal Situation.**

- The flood situation is considered as Normal when:
- i) Water Level in Ukai Reservoir is less than 102.41 m (336.00 ft.)
  - ii) (a) Average daily rainfall recorded at 0830 IST at 7(Seven) key rain gauge stations in Upper Tapi Catchment up to Hathnur is less than 65mm and  
(b) Average daily rainfall recorded at 0830IST at all 15 (fifteen) key rain gauge stations up to Ukai is less than 50mm
- The flood forecast will be issued starting from June 15 to October 15 in the formate shown in "Form-N" of the Manual whenever inflow in to Ukai reservoir is expected more than 1000 cumec.

#### **7.6.2. High Alert Situation**

High Alert situation is implied when condition ( i ) and any one of the conditions ( ii ) (a) & ( ii ) (b) mentioned in 7.6.1. are violated. In this-situation, the High Alert Warning shall be issued in the formate as shown in " Form-H", of the Manual.

#### **7.6.3 Emergency Situation**

An emergency situation is said to have been created when the Ukai Reservoir Water Level is above 102.41 m (336.00 ft) and ,

- i) Combined Estimated discharged at Burhanpur and Yerli river gauging sites is above 14000 Cumecs  
or
- ii) Average daily rainfall in lower Tapi between Hathnur to Ukai (8 rain gauge station) is above 65mm  
or
- iii) The situation when there is failure of forecasting system.

In this situation, Emergency Situation Warning shall be issued in the formate shown in "Form-E" of the Manual depending upon the availability of data in Upper Tapi Basin with Forecasting Agency.

The CWC will issue these forecasts to the Superintending Engineer, Ukai (Civil) Circle, Ukai, Focal Officer i.e. Superintending Engineer, Surat Irrigation Circle, Surat and Flood Control Cell, Gandhinagar well in advance.

On receipt of the forecasts from CWC, the project authorities have to fill all information in "Form-FBRO" given in the manual to decide the releases to be made from the dam if necessary, and act accordingly.

**7.7** In the early period of monsoon, to maintain the reservoir level at stipulated rule level, it may become necessary to release the excess water at once in case of flood developing upstream of Gidhade. The basic policy that is stipulated in the Manual Under a "Normal Flood Situation" is to restrict the outflow from the Ukai Dam to 5.0 Lakh cusec (about 14,000 cumec) and maintain the reservoir at the rule level.

In this case, the authorities downstream of the Ukai Dam should be in readiness with all the necessary arrangements made, to receive a flood up to 5.0 Lakh cusec (about 14,000 cumec) any time during the flood season, for which prior warning of 3 hours will be issued before first release of water from the dam. For subsequent release, downstream authority shall be kept informed before such release.

**7.8** In case, when it is necessary to release discharge more than 5.0 Lakh cusec (about 14,000 cumec) from the Ukai Dam, the prior warning for higher discharges will be issued as mentioned below.

- i) **6.0 Lakh cusec -3 hrs. + Travel time**  
**(16,660 cumec) from Ukai Dam\***
- ii) **8.0 Lakh cusec -6 hrs. + Travel time**  
**(22,655 cumec) from Ukai Dam\***
- iii) **10.0 Lakh cusec -9 hrs. + Travel time\***

(\* - The approximate estimated travel time from Ukai Dam to Hope Bridge, Surat is 6.00 hrs.)

The collector, Surat has to make all necessary arrangements to make the downstream river channel clear up to danger level i.e. R.L. 9.50 m (31.16 ft) and the people may be shifted from the river banks so as not to hamper the flood routing operation from Ukai Dam for a release of 4.0 Lakh cusec about (11,300 cumec) and above.

**7.9** The villages affected by floods in Tapi River are given in Annexure :7-B while to the details of various villages affected at different levels of various villages affected at different levels of Kakrapar Weir are mentioned in Annexure : 7-C.

**7.10** Action to be taken by the Executive Engineer, Tapi Division, (C.W.C) Surat and other officers.

**TABLE (7.10)**

Note :- Please see Flood Telephone Directory of the current year for telephone nos.

<b>Name of officer with Telephone Nos. (1)</b>	<b>Observation to be made by the officer (2)</b>	<b>Officer to whom to messages to be sent. (3)</b>
<b>(A)</b> Executive Engineer Tapti Division (C.W.C) Surat	The Flood Level forecast of NEHRU BRIDGE, Surat shall be conveyed to the Officer in	a) Superintending Engineer. Surat Irrigation Circle, Surat.

Column No. 3 at Sr.No.(a), (b),(c) and (e)  
The inflow forecast of 1000 Cumecs or more coming into Ukai Dam shall be conveyed to the officers at Sr. No. (a),(b), (c) & (e) in Column No. 3

- b) Superintending Engineer, Ukai (Civil) Circle, Ukai
- c) Collector, Surat.
- d) District Superintendent of Police, Surat
- e) Municipal Commissioner, Surat.
- f) Police Commissioner, Surat.
- g) Port Officer, Magadalla Port, Surat.
- h) O.N.G.C. (Village Bhatpur)
- i) Station Director  
Chief Superintendent  
Control Room  
Kakarpar Atomic Power Plant Vyara & Surat.

**(B)**  
Superintending Engineer, Ukai (Civil) Circle, Ukai

The Officer will intimate the **Out Flow of Ukai Dam** to the officers as shown in Column No.3 Below at Sr. No. (a) to (d) along with (c) and (e) in Col. No. :- 3 of Sr. No. :- (A) above

- a) Executive Engineer, Tapti Division (C.W.C), Surat.
- b) Superintending Engineer Surat Irrigation Circle, Surat.
- c) Port Officer, Magadalla Port, Surat.  
(Through Flood Cell, Surat)
- d) Executive Engineer Surat Canal Division, Surat
- e) O.N.G.C. Village Bhatpur.
- f) Station Director,  
Chief Superintendent of Control Room,  
Kakarpar Atomic Power Plant, Vyara-Surat.

**(C)**  
Executive Engineer Surat Canal Dn. Surat

The officer will arrange to intimate the levels of Kakarpar to the Superintending Engineer, Surat Irrigation Circle, Surat, and to the Officers at Sr. No. (a),(b),(c),(e), (f) in Column No.3 of Sr. No. (B), above along with (c) and (e) in Col. No. :- 3 of Sr. No. :- (A) above

- a) Executive Engineer, Tapti Division (C.W.C), Surat.



7.11 Statement showing the Time lag for various stations from origin to the end of river basin is as under.

SR. NO.	NAME OF SITE	TYPE OF SITE	STATE	CATCH-MENT AREA(In Sq.Kms)	DISTANCE FROM ORIGIN (In Kms)	DANGER LEVEL (In Meter)	TIME LAG (In Hours)
1	2	3	4	5	6	7	8
1.	Teska	W,G,R	M.P.	1486	76	—	—
2.	Lakhpuri	W,G,R,Q	Maha.	3560	128	—	—
3.	Chilkada	W,R	Maha.	stations.			
4.	Dedtalai	W,G,R	M.P.	3860	200	—	44
5.	Burhanpur	W,G,D,R,	M.P.	8487	241	220.90	36-37
			S,Q				
6.	Gopalkheda	W,G,D,R,	Maha.	9500	170	—	45
			S,Q				
7.	Yerli	W,G,D,R	Maha.	16517	223	—	37-38
			S,Q				
8.	Hathnur	W,G,R,F	Maha.	29430	290	214.00	32
9.	Bhusaval	W,G,R	Maha.	32478	306	185.32	31
10.	Savkheda	W,G,R	Maha.				
11.	Girna Dam	W,G,R	Maha.	4729	110	—	—
12.	Dahigaon	W,G,R	Maha.	8599	202	—	31
13.	Dhulia	W,G,R	Maha.	1933	95	—	22-24
			S,Q				
14.	Gidhade	W,G,D,R,G	Maha.	54750	420	137.77	18
15.	Saran Kheda	W,G,D,R	Maha.				
16.	Ukai	W,G,R,F	Gujarat	62225	595	105.15	8
17.	Kakrapar		Gujarat	62826	624	53.66	7-8
18.	Ghala	W,G,R,Q	Gujarat	63325	—	—	7
19.	Surat (Nehru Bridge)	W,G,R,F	Gujarat	62973	708.88	9.50	0

Note :- W = Wireless D = Discharge F = Flood G = Gauge R = Rainfall  
S = Silt Q = Water Quality

#### 7.12 Appropriate Authority (Focal Officer.)

The Superintending Engineer,  
Surat Irrigation Circle,  
Near M.T.B. College  
Athwa Lines, Surat

Note :-  
Please see Flood Telephone  
Directory of the current year for  
Telephone Nos.

**ANNEXURE - 7-(B)**

List of villages likely to be affected by floods in Tapi River on the basis of Gauge & Discharge at Kakrapar Weir site, Surat.

**SURAT DISTRICT**

<b>SR. NO. (1)</b>	<b>CHORASI TALUKA</b>	<b>SR. NO. (1)-Contd.</b>	<b>CHORASI TALUKA</b>	<b>SR. NO. (2)</b>	<b>MANDVI TALUKA</b>	<b>SR. NO. (3)</b>	<b>BARDOLI TALUKA</b>
1.	Magdalla	35.	Kawas	1.	Kakrapar	1.	Miyawadi
2.	Nava Varachha	36.	Bhatha	2.	Tarsada	2.	Kadod
3.	Katar Gam	37.	Palanpur	3.	Var Jakham	3.	Uchhare
4.	Gavner	38.	Bharthana	4.	Mandvi	4.	Nasura
5.	Surat City	39.	Kosad	5.	Khedapur	5.	Haripara
6.	Dabholi	40.	Mora	6.	Patha	6.	Zarimora
7.	Piplod	41.	Mota Varachha	7.	Vashigam	7.	Vadhvania
8.	Umra	42.	Amroli	8.	Vaghacha	8.	Samthari
9.	Tunki	43.	Utran	9.	Varoli		
10.	Khatodra	44.	Vanta	10.	Moti Cher		
11.	Singapor	45.	Rundh	11.	Pipaltha		
12.	Ved	46.	Bharthana (Vesu)	12.	Kakadawa		
13.	Vesu	47.	Althan	13.	Kosamdi		
14.	Abhava	48.	Navagam	14.	Piparia		
15.	Majura	49.	Puna	15.	Govachhi		
16.	Anjana	50.	Saroli	16.	Rupen		
17.	Parwat	51.	Ichchhapur	17.	Thutwadi		
18.	Damrod	52.	Rander	18.	Bothan		
19.	Magob	53.	Sarsana	19.	Zankhia		
20.	Fulpada	54.	Pandesara	20.	Nani Cher		
21.	Athwa	55.	Kosmada	21.	Ratania		
22.	Jhangirpura	56.	Govalak	22.	Umarsadi		
23.	Adajan	57.	Pal	23.	Vareli		
24.	Vairav	58.	Chhaaprabhatha	24.	Kamalapur		
25.	Bhatar	59.	Bharthana (Kosad)	25.	Vareth		
26.	Bamroli	60.	Malgama	26.	Rajwad		
27.	Khajod	61.	Limla-Township	27.	Kharoli		
28.	Bhimrod	62.	Bhesan	28.	Unn		
29.	Udhana	63.	Vansava	29.	Virpor		
30.	Simada	64.	Bhatalai	30.	Vankla		
31.	Kumbharia	65.	Damka	31.	Roswad		
32.	Karanj	66.	Mora	32.	Khanjroli		
33.	Dumas	67.	Suwali	33.	Khaler		
34.	Sarasana	68.	Bhatpor	34.	Kosdi		
		69.	Abhava	35.	Godawadi		
		70.	Limbayat	36.	Una		
		71.	Parvat	37.	Vaghnera		
		72.	Sanla Hemad	38.	Varethi		
		73.	Sarsana	39.	Vadi		
		74.	Pandesara	40.	Vadod		
		75.	Kosamba	41.	Nogama		
				42.	Kevadia		
				43.	Veghi		
				44.	Naren		
				45.	Kharoli		
				46.	Nandapur	48.	Uncha-Mala
				47.	Andhatri	49.	Bed Kuva

SR. NO.	KAMREJ TALUKA (4)	SR. NO.	OLPAD TALUKA (5)	SR. NO.	OLPAD TALUKA	DIST. TAPI SR. NO. VYARA TALUKA
1.	Kamrej	1.	Sayan	51.	Vadila	✓ 1. Kanja
2.	Kholwad	2.	Vasvari	52.	Sejpura	✓ 2. Bedkuwa-Dur
3.	Kholeswar	3.	Atodara	53.	Hathisa	✓ 3. Kalavyara
4.	Timba	4.	Asnad	54.	Matkol	
5.	Kathor	5.	Saroli	55.	Bhat gam	
6.	Chorasi	6.	Gothan	56.	Asnad	
7.	Antroli	7.	Jothan	57.	Sarsana	
8.	Tharoli	8.	Umra	58.	Sondla Mitha	
9.	Paradi	9.	Sivan	59.	Morthan	
10.	Bhadad	10.	Delad.	60.	Takarma	
11.	Valst	11.	Segwa	61.	Hasanpor	
12.	Sarthana	12.	Madhar	62.	Kanbhai	
13.	Laskana	13.	Karamala	63.	Obhala	
14.	Velanja	14.	Ariana	64.	Bharunda	
15.	Sarasana	15.	Sonsak	65.	Shekhpur	
16.	Ankhakhhol	16.	Balkas	66.	Lavachha	
17.	Gior	17.	Gola	67.	Admor	
18.	Karjan	18.	Kosam	68.	Kudiyana	
19.	Bherav	19.	Mahamadpur	69.	Kuwad	
20.	Amboli	20.	Earthan	70.	Kapasi	
21.	Ambharama	21.	Selut	71.	Kunbhari	
22.	Navi pardi	22.	Ambheta	72.	Naghoi	
23.	Abrama	23.	Kunkani	73.	Koba- Pardi	
24.	Derod	24.	Veluk	74.	Kachhab	
25.	Ghala	25.	Pinjrat	75.	Delasa	
26.	Dhoranpardi	26.	Olpad	76.	Sondlakhara	
27.	Dungra	27.	Asnabad	77.	Mirzapor	
28.	Dhatava	28.	Barbodhan	78.	Mindhi	
29.	Machhi	29.	Paria	79.	Morbhava	
30.	Nansad	30.	Vadod	80.	Syabha	
31.	Dewali	31.	Sandhiar			
32.	Shampura	32.	Sithana			
33.	Ghaduli	33.	Masama			
34.	Limodara	34.	Andhi			
35.	Pasodara	35.	Kalipur			
36.	Navagam	36.	Isanpur			
37.	Timba	37.	Dihen			
38.	Kathodra	38.	Kundalana			
39.	Koli Bharthana	39.	Achharan			
40.	Netrang	40.	Kamaj			
		41.	Saroli			
		42.	Talad			
		43.	Sherdi			
		44.	Orma			
		45.	Bhandut			
		46.	Kaslakhurd			
		47.	Kachhol			
		48.	Tena			
		49.	Kasla Bujarang			
		50.	Saras			

**Note :** Refer Annexure 7-C for the villages likely to be affected by floods at different Water levels.

# **ANNEXURE - 7 (C)**

List of villages likely to be affected by floods in **Tapl River** on the basin of Gauge & Discharge at **Kakrapar Weir Site, Surat.**

SR NO	DISCHARGE AT KAKRPAR WEIR IN (CUS/CUM)	GAUGE LEVEL AT KAKRPAR WEIR		NAME OF DISTRICT	SIGNALS FOR VILLAGES		
		IN FEET	TALUKA IN METER		WHITE SIGNAL	BLUE SIGNAL	RED SIGNAL
1	2	3	4	5	6	7	8
Note : 1. <b>WHITE SIGNALS</b> : ALERT 2. <b>BLUE SIGNAL</b> : READY FOR EVACUATION 3. <b>RED SIGNALS</b> : IMMEDIATE EVACUATION							
1.	3,91,100 11,074	174.40	53.15	<b>Surat</b>			
				1. Chorasi	1,2,4,5, 8,9,11,12, 46,47,52	—	—
2.	4,40,400 12,740	175.50	53.40	<b>Surat</b>			
				1. Chorasi	3,6,7,10 & 13,15 to 18 20 to 26 28 to 39, 53	1,2,4,5,8, 9,11,12 46,47,52	---
3.	4,60,640 13,044	176.05	53.66	<b>Surat</b>			
				1. Chorasi	45,48,49, 50,51	3,6,7,10 13, 15 to 18, 20 to 26, 28 to 39, 53	1,2,4,5, 8,9,11,12 46,47,52
4.	5,20,375 14,735	177.25	54.04	<b>Surat</b>			
				1. Chorasi	58 to 62, 68	45,48, 49,50, 51	3,6,7,10, 13, 15 to18, 20 to 26, 28 to 39,53
				2. Mandavi	1	—	—
				3. Kamrej	1,2,3, 13,19,20	---	---
5.	5,80,740 16,444	178.50	54.42	<b>Surat</b>			
				1. Mandavi	4 to 12	1	—
				2. Bardoli	1	—	—
				3. Kamrej	4,6 to 12 15 to 16	1,2,3, 13,19,20	—
				4. Olpad	1 to 25	—	—
				5. Vyara	1	—	—
				6. Chorasi	—	58to62, 68	45,48,49, 50,51



SR NO	DISCHARGE AT KAKRPAR WEIR IN (CUS/CUM)	GAUGE LEVEL AT KAKRPAR WEIR IN FEET		NAME OF DISTRICT	SIGNALS FOR VILLAGES		
					WHITE SIGNAL	BLUE SIGNAL	RED SIGNAL
1	2	3	4	5	6	7	8
6.	6,90,370 19,449	180.50	55.03	Surat			
				1. Chorasi	40 to 44	—	58 to 62,68
				2. Mandavi	13	4 to 12	1
				3. Bardoli	--	1	--
				4. Kamrej	--	6 to 12, 15, 16	1,2,3,13, 19,20
				5. Olpad	26 to 36	1 to 25	--
				6. Vyara	--	1	--
7.	7,60,150 21,524	181.75	55.41	Surat			
				1. Chorasi	—	40 to 44	—
				2. Mandavi	21 to 30	13	4 to 12
				3. Bardoli	2 to 3	--	1
				4. Kamrej	17 to 20, 21 to 32	--	4,6 to 12, 15, 16
				5. Olpad	37 to 44	26 to 36	1 to 25
				6. Vyara	—	--	1
8.	8,90,760 25,223	184.00	56.10	Surat			
				1. Mandavi	31 to 39	21 to 30	13
				2. Bardoli	4	2 to 3	—
				3. Kamrej	33 to 37	17 to 20, 21 to 32	--
				4. Olpad	45 to 65	37 to 44	26 to 36
				5. Vyara	3	--	--
				6. Chorasi	46,47,54,55 56,63 to 67,69	--	40 to 44
9.	9,50,950 26,927	185.00	56.40	Surat			
				1. Mandavi	40 to 47	31 to 39	21 to 30
				2. Bardoli	5	4	2 to 3
				3. Kamrej	—	33 to 37	17 to 20, 21 to 32
				4. Olpad	66 to 74	45 to 65	37 to 44
				5. Vyara	—	3	--
				6. Chorasi	70,71,72	46,47,54,55, 56,63 to 67,69	--

SR NO	DISCHARGE AT KAKRPAR WEIR IN (CUS/CUM)	GAUGE LEVEL AT KAKRPAR WEIR IN FEET		NAME OF DISTRICT	SIGNALS FOR VILLAGES		
		TALUKA IN METER	WHITE SIGNAL		BLUE SIGNAL	RED SIGNAL	
1	2	3	4	5	6	7	8
10.	10,00,000	185.70	56.40	Surat			
	28,317			1. Mandavi	2,3,48,49	40 to 47	31 to 39
				2. Bardoli	6, 7	5	4
				3. Kamrej	5,38 to 40	--	33 to 37
				4. Olpad	75 to 80	66 to 74	45 to 65
				5. Vyara	—	—	3
				6. Chorasi	14,19,27 47,73 to 75	70,71,72	46,47,54, 55, 56, 63 to 67, 69
11.	11,00,000	187.20	57.05	Surat			
	31,148			1. Mandavi	--	2,3,48,49	40 to 47
				2. Bardoli	--	6,7	5
				3. Kamrej	—	5,38 to 40	--
				4. Olpad	--	75 to 80	66 to 74
				5. Vyara	—	3	1
				6. Chorasi	--	14, 19, 27	70,71,72
						47, 73 to 75	
12.	12,00,000	188.70	57.51	Surat			
	33,980			1. Mandavi	--	--	2,3,48,49
				2. Bardoli	--	--	6,7
				3. Kamrej	—	--	5,38 to 40
				4. Olpad	--	--	75 to 80
				5. Vyara	—	--	3
				6. Chorasi	--	--	14,19,27 47,73 to 75

**Note :** Refer Annexure 7-B for the villages likely to be affected by floods at different Water Levels.

**Table : 1**  
**DRAIN NETWORK OF TAPI BASIN**

Sl. No	Name of River / tributary	Bank	Elevation of source above m.s.l [m]	Length [K.m2]	Catchment area [K.m2]	%of total area
1	2	3	4	5	6	7
1	Tapi	Main Steam	752	724	22522	34.57
2	Gomai	Right	600	58	1148	1.76
3	Arunavati	Right	450	53	935	1.44
4	Buray	Left	600	64	1419	2.18
5	Panjhra	Left	600	138	3257	5.00
6	Bori	Left	600	130	2580	3.96
7	Aner	Right	600	94	1702	2.61
8	Girna	Left	900	260	10061	15.44
9	Waghur	Left	751	96	2592	3.98
10	Purna	Left	900	274	18929	29.06
			TOTAL	1896	65145	100

**Table : 2**  
**EXISTING WRP IN TAPI BASIN**

Sl. No	Name of Project	River	Status	Capacity [MCM]		Utilisation
				Gross	Live	
1	Chandora tank	Tapi	Medium	18.20	16.482	Irrigation
2	Sonkhedi tank	Local Nala	Medium	5.456	4.595	Irrigation
3	Girna Project	Girna	Medium	608.45	523.55	Irrigation
4	Manyad	Manyad	Medium	53.950	40.27	Irrigation
5	Bori	Bori	Medium	40.310	25.15	Irrigation
6	Hathnur	Tapi	Medium	388.00	255.0	Irrigation
7	Suki	Suki	Medium	50.160	39.85	Irrigation
8	Abhora	Boked Nalla	Medium	7.440	6.020	Irrigation
9	Bokar Bari	Bokar Bari Nalla	Medium	7.090	6.540	Irrigation
10	Agnawati	Agnawati	Medium	3.740	2.760	Irrigation
11	Tondapur	Khadki Nalla	Medium	6.304	4.636	Irrigation
12	Aner Project	Aner	Medium	103.23	56.380	Irrigation
13	Karwand Project	Arunawati	Medium	33.840	31.150	Irrigation
14	Panjhra Project	Panjhra	Medium	43.410	35.630	Irrigation
15	Malangaon	Kan	Medium	13.020	11.350	Irrigation
16	Kanholi	Khanholi	Medium	11.79	8.450	Irrigation
17	Burai	Burai	Medium	21.330	14.210	Irrigation
18	Arunawati	Arunawati	Medium	27.780	14.970	Irrigation
19	Rangwali	Rangwali	Medium	15.020	12.890	Irrigation
20	Nagasakya	Panzar	Medium	15.620	11.240	Irrigation
21	Haran Bari	Mousam	Medium	34.780	---	Irrigation
22	Ukai	Tapi	Major	8510	7092	Power & irrigation
23	Kakrapar	Tapi	Medium	Diversion	N.A	Irrigation
24	Ver-I	Ver	Medium	38.6	37.41	Irrigation
25	Lakhigav	Dhakni	Medium	4.9	4.61	Irrigation
26	Sulwade	Tapi	Medium	65.071	64.942	Irrigation
27	Saragkheda	Tapi	Medium	92.19	91.82	Irrigation
28	Prakasha	Tapi	Medium	63.64	62.11	Irrigation

## **DETAILS OF C. W. C. OFFICES IN THE CATCHMENT OF UKAI DAM**

### **1.SURAT**

**Y. S. Varshney**  
**Executive Engineer**  
**Tapi Division,**  
**Central Water Commission,**  
**Opp. Kshetrapal Health Center**  
**Sagarampura,**  
**SURAT**  
**Ph.No. 0261-2478569**

### **2. BHUSAWAL**

**Ravi Bhushan**  
**Assistant Engineer**  
**Upper Tapi Sub Division**  
**CWC,Opp. Yawal naka**  
**Bhusawal,**  
**Dist. Jalgaon**  
**MAHARASHTRA**  
**Ph.No.02582-222913**

### **3.DHULIA**

**Ravi Bhushan**  
**Assistant Engineer**  
**Middle Tapi Sub Division**  
**CWC,Near Vidya Vardhani College**  
**Sakri Road, Dhulia**  
**Ph.No.02562-276147**

### **4.SURAT**

**V. Y. Kapse**  
**Assistant Engineer**  
**Lower Tapi Sub Division**  
**CWC, Opp. Kshetrapal Health Center**  
**Sagarampura,**  
**SURAT**  
**Ph.No. 0261-2476187**

### **5.HATHNUR**

**The site Incharge C F F Wireless Station Hathnur**  
**C/O Deputy Enguneer**  
**Hathnur Dam**  
**Post Tanasan**  
**Ta. Bhusawal**  
**Dist. Jalgaon**  
**MAHARASHTRA**  
**Ph.No. 02582 - 277044**



## Potentially affected villaged by Mindhola River

### ANNEXURE - 14-B

List of villages likely to be affected due to floods in river of NAVSARI, SURAT & BHARUCH DISTRICTS.

#### NAME OF RIVERS

Sr. MINDHOLA No. RIVER (1)	Sr. PURNA No. RIVER (2)	Sr. VER No. RIVER (3)	Sr. DHADHAR No. RIVER (4)
<b><u>SURAT DIST.</u></b>	<b><u>NAVSARI DIST</u></b>	<b><u>SURAT DIST.</u></b>	<b><u>BHARUCH DIST</u></b>
1. Makhinga	1. Chhitra	1. Gordha	<b><u>JAMBUSAR TALUKA</u></b>
2. Kamalchhad	2. Miyapur	2. Soli	1. Valia
3. Syadla	3. Savasan	3. Amalsadi	2. Asaroi
4. Karelha	4. Vedchhi	4. Karavati	3. Kundal
5. Utara	5. Ambach	5. Boria	4. Bojedara
6. Bardoli	6. Valod	6. Godavadi	5. Nada
7. Mota Rampura	7. Bhuvasan		6. Devla
8. Laipura	8. Kanai		7. Bhadhkodra
9. Kapletha	9. Vadia		8. Sigam
10. Parti Rakeb	10. Bhudhleshvar		9. Muradpur-Neja
11. Taraj	11. Shakhpur		10. Kavi
12. Pamboli	12. Mahuva		11. Jantran
13. Kanpur	13. Ondach		12. Medafarr-Neja
14. Panavadi	14. Noadch		13. Tankari
15. Kachholi	15. Amchak		14. Khanpur

**ANNEXURE - 14-B (Contd.....)**  
 List of villages likely to be affected due to floods in river of NAVSARI, SURAT & BHARUCH DISTRICTS.

NAME OF RIVERS			
Sr. MINDHOLA No. RIVER (1)	Sr. PURNA No. RIVER (2)	Sr. DHADHAR No. RIVER (4)	
<u>SURAT DIST.</u>	<u>NAVSARI DIST</u>	<u>BHARUCH DIST</u>	
16. Popda 17. Mokai 18. Ten 19. Varad 20. Dayan 21. Dhamdod 22. Vyara 23. Pansora 24. Asta 25. Kalkachha	16. Kavitha 17. Ranat 18. Amroli 19. Bagumra 20. Karchaka 21. Babla 22. Vankaner 23. Dhat 24. Bagalpur 25. Kalkui	<u>JAMBUSAR TALUKA</u> 15. Mahapura 16. Magnand 17. Jambusar 18. Koteswar 19. Nobar 20. Uber 21. Nondhana 22. Jafarapura 23. Kopuria 24. Malpur 25. Vad 26. Kora 27. Kava 28. Umara 29. Ankhi 30. Vahelam	<u>AMOD TALUKA</u> 1. Vasna 2. Manjola 3. Kankaria 4. Ikhar 5. Danda 6. Sarbhan 7. Modhana 8. Dadapur 9. Kobla 10. Amod 11. Pursha
<u>XYARA TALUKA</u> 1. Kalkava 2. Khanjar 3. Boswada			
			<u>VADODARA DIST.</u> 1. Nahar 2. Barsundh 3. Nodra

Sr. TOKARI No. RIVER	Sr. TOKARI KHADI AND No. TRIBUTORY OF KIM RIVER.	Sr. KALU No. RIVER
<u>BHARUCH DISTRICT</u>	<u>VALIA TALUKA</u>	<u>VALSAD DISTRICT</u>
<u>VALIA TALUKA</u> 1. Mauza 2. Kamalia 3. Chikhli 4. Gundia 5. Rajpura 6. Jabugam 7. Vandaria 8. Chormca 9. Umargam 10. Sodgam 11. Sinoda 12. Navapura	1. Baldeva 3. Kambodi 5. Zarna 7. Sheer 9. Kesargam 11. Pithor 13. Desad	<u>UMARGAM TALUKA</u> 1. Jamburi 2. Punat 3. Bhilad 4. Bortai 5. Karambele

## Annexure-05

### List of Villages vulnerable from Nuclear Hazard- (103 villages- As per 18 km RADIUS)

Sr No	SECTOR	RADIAL DISTANCE ZONE	VILLAGE	Taluko	POPULATION	RALLYING POST	DISTANCE	NEAREST P.H.C.
1	C	PAZ	Kanja	Vyara	1422	Songadh	2.1	PHC Kala Vyara
2	D	PAZ	Bedkuva Dur	Vyara	4182	Songadh	2.1	PHC-Champawadi
3	D	UPZ	Kala Vyara	Vyara	1173	Songadh	18	PHC Kala Vyara
4	F	UPZ	Khod Talav	Vyara	2192	Vyara	18	PHC Kala Vyara
5	F	UPZ	Limbarda	Vyara	2140	Vyara	18	PHC Kala Vyara
6	F	UPZ	Unchamala	Vyara	8830	Vyara	18	PHC Kala Vyara
7	G	UPZ	Bedkuva Najik	Vyara	1244	Songadh	18	PHC-Champawadi
8	G	UPZ	Katiskuva Najik	Vyara	1290	Songadh	18	PHC-Champawadi
9	G	UPZ	Sarkuva	Vyara	1064	Songadh	18	PHC-Champawadi
10	G	UPZ	Vaghpani	Vyara	505	Songadh	18	PHC-Champawadi
11	H	UPZ	Andharvadi Najik	Vyara	758	Bardoli	18	PHC-Maipur
12	H	UPZ	Bhatpur	Vyara	1019	Bardoli	18	PHC-Maipur
13	H	UPZ	Champavadi	Vyara	2527	Bardoli	18	PHC-Champawadi
14	H	UPZ	Chikhalda	Vyara	1808	Bardoli	18	PHC-Vadi
15	H	UPZ	Chikhalvav	Vyara	1511	Bardoli	18	PHC-Champawadi
16	H	UPZ	Indu	Vyara	976	Bardoli	18	PHC-Champawadi
17	H	UPZ	Jetvadi	Vyara	333	Bardoli	18	PHC-Dadhwada
18	H	UPZ	Kanpura	Vyara	3399	Bardoli	18	PHC-Champawadi
19	H	UPZ	Katasvan	Vyara	2447	Bardoli	18	PHC-Champawadi

20	H	UPZ	Madav	Vyara	579	Bardoli	18	PHC-Maipur
21	H	UPZ	Magarkui	Vyara	1969	Bardoli	18	PHC-Maipur
22	H	UPZ	Paniyari	Vyara	1862	Bardoli	18	PHC-Maipur
23	H	UPZ	Rampura Najik	Vyara	658	Bardoli	18	PHC-Champawadi
24	H	UPZ	Tadkuva	Vyara	2159	Bardoli	18	PHC-Champawadi
25	H	PAZ	Vadkuai	Vyara	1597	Bardoli	2.1	PHC-vanskui
26	H	UPZ	Vadkui	Vyara	1665	Bardoli	18	PHC-Maipur
27	H	UPZ	Vaghzari	Vyara	723	Bardoli	18	PHC-Maipur
28	H	UPZ	Vyara	Vyara	39789	Bardoli	18	PHC-Champawadi
29	I	UPZ	Bhanavadi	Vyara	1583	Bardoli	18	PHC-Maipur
30	I	UPZ	Bhojpur najik	Vyara	1380	Bardoli	18	PHC-Maipur
31	I	UPZ	Dungargam	Vyara	1147	Bardoli	18	PHC-Maipur
32	I	UPZ	Kapura	Vyara	3285	Bardoli	18	PHC-Maipur
33	I	UPZ	Katiskuva Dur	Vyara	914	Bardoli	18	PHC-Maipur
34	I	UPZ	Khushalpura	Vyara	2476	Bardoli	18	PHC-Maipur
35	I	UPZ	Kohli	Vyara	1261	Bardoli	18	PHC-Maipur
36	I	UPZ	Lotarva	Vyara	1917	Bardoli	18	PHC-Maipur
37	I	UPZ	Maypur	Vyara	1207	Bardoli	18	PHC-Maipur
38	I	UPZ	Rupwada	Vyara	686	Bardoli	18	PHC-Maipur
39	I	UPZ	Shahpur	Vyara	661	Bardoli	18	PHC-Simodra
40	I	UPZ	Tichakpura	Vyara	1064	Bardoli	18	PHC-Maipur
41	I	UPZ	Umarkuva	Vyara	757	Bardoli	18	PHC Kala Vyara
42	I	PAZ	Umerkuva	Vyara	659	Bardoli	2.1	PHC Kala Vyara
43	J	UPZ	Borkhadi	Vyara	4609	Bardoli	18	PHC-Maipur
44	L	UPZ	Vadhvaniya	Vyara	1797	Songadh	18	PHC-Vanskui



45	C	UPZ	Amaldi	Songadh	101	Songadh	18	PHC-Dadhwada
46	C	UPZ	Ota Tokerva	Songadh	67	Songadh	18	PHC-Dadhwada
47	C	UPZ	Samarkuva	Songadh	451	Songadh	18	PHC-Dadhwada
48	C	UPZ	Singalvan	Songadh	539	Songadh	18	PHC-Dadhwada
49	D	UPZ	Ajvar	Songadh	162	Songadh	18	PHC-Dadhwada
50	D	UPZ	Bhatvada	Songadh	943	Songadh	18	PHC-Kherwada
51	D	UPZ	Ghasiya Medha	Songadh	1962	Songadh	18	PHC-Agaswan
52	D	UPZ	Junai	Songadh	252	Songadh	18	PHC-Kherwada
53	D	UPZ	Khervada	Songadh	1979	Songadh	18	PHC-Ukhalda
54	D	UPZ	Nindvan	Songadh	1078	Songadh	18	PHC-Agaswan
55	D	UPZ	Sar jamli	Songadh	688	Songadh	18	PHC-Kherwada
56	E	UPZ	Bhanpur	Songadh	382	Songadh	18	PHC-Agaswan
57	E	UPZ	Borisawar	Songadh	543	Songadh	18	PHC-Agaswan
58	E	UPZ	Dhajamba	Songadh	3146	Songadh	18	PHC-Agaswan
59	E	UPZ	Jamapur	Songadh	1314	Songadh	18	PHC-Agaswan
60	E	UPZ	Jhadpati	Songadh	362	Songadh	18	PHC-Ukhalda
61	E	UPZ	Moti Khervan	Songadh	2509	Songadh	18	PHC-Ukhalda
62	E	UPZ	Panch Pipla	Songadh	1494	Songadh	18	PHC-Agaswan
63	E	UPZ	Pipalkuva	Songadh	2690	Songadh	18	PHC-Ukhalda
64	E	UPZ	Singpur	Songadh	2389	Songadh	18	PHC-Ukhalda
65	E	UPZ	Sisor	Songadh	2011	Songadh	18	PHC-Agaswan
66	E	UPZ	Ukhalda	Songadh	3125	Songadh	18	PHC-Ukhalda
67	E	UPZ	Vaghnera(Songhdh)	Songadh	1872	Songadh	18	PHC-Ukhalda
68	E	UPZ	Vekur	Songadh	874	Songadh	18	PHC-Ukhalda
69	E	UPZ	Veljhar	Songadh	874	Songadh	18	PHC-Agaswan

70	F	UPZ	Achhalva	Songadh	644	Vyara	18	PHC-Ukhalda
71	F	UPZ	Amli (Songadh)	Songadh	1319	Vyara	18	PHC-Agaswan
72	F	UPZ	Amlipada	Songadh	1173	Vyara	18	PHC-Ukhalda
73	F	UPZ	Bedi	Songadh	1496	Vyara	18	PHC-Agaswan
74	F	UPZ	Bedvan P Bhensrot	Songadh	604	Vyara	18	PHC-Ukhalda
75	F	UPZ	Chikhli Bhensrot	Songadh	1749	Vyara	18	PHC-Agaswan
76	F	UPZ	Kavla	Songadh	528	Vyara	18	PHC-Ukhalda
77	F	UPZ	Kelai	Songadh	1285	Vyara	18	PHC-Ukhalda
78	F	UPZ	Kikakui	Songadh	2628	Vyara	18	PHC-Ukhalda
79	F	UPZ	Mandal	Songadh	2208	Vyara	18	PHC-Champawadi
80	F	UPZ	Nishana	Songadh	1803	Vyara	18	PHC-Agaswan
81	F	UPZ	Vajharda	Songadh	2405	Vyara	18	PHC-Agaswan
82	G	UPZ	Agasvan	Songadh	2183	Songadh	18	PHC-Agaswan
83	G	UPZ	Chakalia	Songadh	1538	Songadh	18	PHC-Agaswan
84	G	UPZ	Chikhali Khadka	Songadh	1251	Songadh	18	PHC-Agaswan
85	G	UPZ	Chorwad	Songadh	1863	Songadh	18	PHC-Champawadi
86	G	UPZ	Katgadh	Songadh	372	Songadh	18	PHC-Champawadi
87	G	UPZ	Sadadvan	Songadh	1028	Songadh	18	PHC-Champawadi
88	G	UPZ	Virpur	Songadh	930	Songadh	18	PHC-Champawadi
89	J	UPZ	Tokerva	Songadh	90	Bardoli	18	PHC-Agaswan
90	A	UPZ	Khare	valod	2212	Areth	18	PHC-Lavet
91	I	UPZ	Dhamodla	valod	2431	Bardoli	18	PHC-Kalamkui
92	J	UPZ	Beldha	valod	272	Bardoli	18	PHC-Kalamkui
93	J & I	UPZ	Degama	valod	5350	Bardoli	18	PHC-Maipur
94	J	PAZ	Ghata	valod	2181	Areth	2.1	PHC Kala Vyara

95	J	UPZ	Inama	valod	784	Bardoli	18	PHC-Vanesa
96	J	UPZ	Kaher	valod	2137	Bardoli	18	PHC-Kalamkui
97	J	UPZ	Kalamkui	valod	2595	Bardoli	18	PHC-Kalamkui
98	J	UPZ	Kamalchood	valod	6430	Bardoli	18	PHC-Maipur
99	J	UPZ	Titva	valod	868	Bardoli	18	PHC-Kalamkui
100	K	UPZ	Bedkuva	valod	3416	Areth	18	PHC-Kalamkui
101	K	UPZ	Karachaka	valod	1033	Areth	18	PHC-Uva
102	K	UPZ	Syadla	valod	1415	Areth	18	PHC-Uva
103	K	UPZ	Vanskui (Bardoli)	valod	3010	Areth	18	PHC-Vanskui

(As per comminctaed with KAPS Planing Deparment)

### **Annexure: 6**

#### **List of resources available At Mamaltdar office**

##### **Life Jacket, Life buoy, Ropes etc**

Sr No	Taluko	Life Jacket	Life Ring	Ropes 100 ft	Ropes 200 ft	Ganeretor	Emergency light Portable Inflatable
1	Vyara	25	31	20	99	1	0
2	Valod	8	14	6	0	1	0
3	Dolvan	30	15	3	2	0	0
4	Songadh	10	8	17	33	0	0
5	Uchchhal	50	36	18	38	1	0
6	Nizar	4	0	33	35	1	0
7	Kukarmunda	24	20	14	0	0	0
	Total	151	124	111	207	4	0

#### **List of resources available At DEOC office**

Sr No	Resources	Quantity
1	Rope (100mt)	10
2	Tree cutter (Chain show)	05
3	Drill machine (hammer)	02
4	Life Jacket	50
5	Life Ring	50
6	Flood LED Light	10

## UP-SCALING OF AAPDA MITRA SCHEME (Resource Reserve)

### Items for Emergency Essential Resource Reserve (EERR) at District Level

Sl. No.	Items	Quantity
1	Personal Floatation Device ( Life Jacket made of polyurethane foam)	6
2	Torch or emergency light (Solar enabled)	12
3	Safety gloves ( Canvas/leather)	12 pairs
4	30 mtrs 10/11 mm BOB Nylon rope	6
5	Lifebuoys	12
6	Oars & Rowlocks	3 pairs
7	Paddles	18
8	Anchors	4
9	Galvanized metal bucket or bailer	4
10	Outboard Motor Minimum 30 HP	2
11	DCP Fire Extinguisher	4
12	Emergency Spot light with minimum 12 hours run time	3
13	Tool kit ( Colt cutter, wire cutter, Pliers, Screw driver set)	3
14	Axe/hatchet 3kg	3
15	Fibreglass Backboard Stretcher	6
16	Radio Walkie sets 5 watt	6
17	Blankets	12
18	Park pickets	12
19	First Aid Kit	6
20	Twin Progned Graphel/ Cat Hooks	6
21	Throw Bag	6
22	GUM Boots	12 pairs
23	Safety Goggles	6
24	Safety Helmet (Water rafting)	6
25	GPS sets	4
26	Navigation lights	4
27	Maps, Charts and compass	As required
28	Chain Saw machine	4
29	Camping tent (water resistant) + Mosquito Net	4+4
30	Inflatable Rescue Boat	1

### List of resources available At Nagarpalika

Nagarpalika	resources							
	Life Jacket	Life Ring	Ropes	Ganeretor	Emergency light	Fire bullet	Mini water browser	water browser
Vyara	13	49	10	0	1	1	1	3
Songadh	30	30	5	1	2	0	1	1
Total	43	79	15	1	3	1	2	4

### De-Watering Pumps at Nagarpalika level

Nagarpalika	Number of de-Watering Pumps	Total
Vyara Nagarpalika	2	2
Songadh Nagarpalika	1	1
Total		3

### Fiber boat in other department

Sr No	Department	Numbers
1	Fire Vyara	01
2	RFO/Forest Ukai	01

## Annexure: 7

### Health Department TAPI

Details of communication				
Sr. No.	Name of Officer	Designation	Mobile No.	Email id
1	I/C Dr. Paul Vasava	CDHO	<b>9879544425</b> 02626-221815	cdho.health.tapi@gmail.com
2	Dr. Naitik Chaudhrai	CDMO	<b>9638650000</b> 02626-220053	ghvyara@gmail.com
3	Dr. Paul Vasava	ADHO	9879544425	adho.health.tapi@gmail.com
4	Dr. Bhargav Dave	RCHO	<b>8980043413</b> 02626-220376	rcho.health.tapi@gmail.com
5	Dr. Snehal B Patel	DSO/EMO	9727709592 6357905885	emo.health.tapi@gmail.com
6	Dr. Kantilal T Chaudhari	DQAMO	9727774633 9737989830	qamotapi@gmail.com
7	Dr. Raju M Chaudhari	DTO	9825499556 9825303057	dtoguvyr@rntcp.org
8	I/C Dr. Snehal B Patel	DMO	9727709592	dmo.health.tapi2@gmail.com
10	Dr. Dipti K Gamit	Dist. Epidemiologist	8758514607	emo.health.tapi@gmail.com
11	Ajay M. Prajapati	DFO	9925241930	dfo.healthtapi@gmail.com

### T.H.O. Contact Details

No	Name of Officer	Designation	Mobile No	E-Mail Address
1	Dr. Pranay Patel	THO Vyara	9727709576	thovyara.health.tapi1@gmail.com
2	Dr. Nehal Patel	THO Dolvan	9913795432	thodolvan.health.tapi@gmail.com
3	Dr. Chirag Patel	THO Valod	9426540936	thovalod.health.tapi2@gmail.com
4	Dr. Hetal Sadadivala	THO Songadh	9016734647	thosongadh.health.tapi2@gmail.com
5	Dr. Vilash Gavrit	THO Uchchhal	9511836732	thouchchhal.health.tapi1@gmail.com
6	Dr. Jaydeep Patel	THO Kukarmunda	9727709607	thokukarmunda.health.tapi1@gmail.com
7	Dr. Vijay Damor	THO Nizar	7567893340	thonizar.health.tapi1@gmail.com

## CHC Superintendent

Sr No	Taluka	DH/SDH/CHC Detail	Name	Contact Number
1	Vyara	GH Vyara	Dr. Naitik Chaudhari (CDMO)	9727742501
2	Dolvan	CHC Dolvan	Dr. Hardik Chaudhari	7698209277
3	Kukarmunda	CHC Kukarmunda	Dr. Jaydeep (i/c)	8380859565
4	Nizar	CHC Nizar	Dr. Onkar Chaudhari	7567873642
5	Songadh	SDH Songadh	Dr. Vimal Patel	7567873636
6	Songadh	CHC Hindla	Dr. Hetal Sadadiwala	6359778025
7	Valod	CHC Valod	Dr. Kunjan Chaudhari	9724302712
8	Valod	CHC Algat	Dr. Twisha Patel	8780011711
9	Uchchhal	SDH Uchchhal	Dr. Pratixa Desai	9825291772
10	Vyara	CHC Gadat	Dr. Axay Rana	7574834928

### Rapid Response Team

#### Department of Health, District Panchayat- Tapi

Sr.No.	Name of Officer/Health Staff	Designation	Mob.No.
1	I/C Dr. Paul Vasava	C.D.H.O	9879544425
2	Dr. Naitik Chaudhari	C.D.M.O	9727742501
3	Dr. Snehal Patel	D.S.O/E.M.O	9727709592
4	Dr. Dipti Gamit	District Epidemiologist	8758514607
5	Dr. Nimesh Chaudhari	Medicine Physician	9727702294
6	Dr. Dipak Gamit	Pediatrician	7069300591
7	Dr. Chirag Ghoghari	Microbiologist	9978996381
8	Dr. Chirag Parikh	Pathologist	7383791204
9	Saurabh Patel	District Pharmacist	9825968169
10	Krunal Chaudhari	District Data Manager	9879339576



**Rapid Response Team: 01****Taluka: Vyara**

Sr. No.	Name	Designation	Name of P.H.C.	Mobile No.
1	Dr. Pranay Patel	THO Vyara	Block Office Vyara	9727709576
2	Dr. Kalpesh Chaudhari	M.O	PHC Lakhali	7878801729
3	Dr. Chetan Chaudhari	Ayush MO	PHC Maypur	7574834914
4	Vishal Vasava	Pharmacist	PHC Jesingpura	9033121542
5	Lalsingbhai Gamit	Driver (GJ 18 G 1676)	PHC Maypur	6352794183

**Rapid Response Team:02****Taluka: Dolvan**

No.	Name	Designation	Name of P.H.C.	Mobile No.
1	Dr. Pranay Patel	THO Dolvan	Block Office Dolvan	9727709576
2	Dr. Nikunj Chaudhari	M.O	PHC Pipalvada	9727709555
3	Dr. Hina Panchal	Ayush MO	PHC Padamdungri	9512395111
4	Nikhil Darji	Pharmacist	PHC Karanjkhed	9601090738
5	Manoj Jani	Driver (GJ 18 G 8315)	PHC Ghani	9638639696

**Rapid Response Team:03****Taluka: Valod**

No.	Name	Designation	Name of P.H.C.	Mobile No.
1	Dr. Chirag Patel	THO	Block Office Valod	9426540936
2	Dr. Tarlika Chaudhari	MO	PHC Buhari	9727709554
3	Dr. Narendra Chaudhari	Ayush MO	PHC Kanjod	9974638186
4	Mahesh Chauhan	Pharmacist	Algat	8140170337
5	Bhavesh Patel	Driver(GJ 18 G 8341)	PHC Buhari	7567945700

**Rapid Response Team:04****Taluka: Songadh**

Sr. No.	Name	Designation	Name of P.H.C.	Mobile No.
1	Dr. Hetav Sadadivala	THO	THO Office Songadh	9016734647
2	Dr. Parimal Patel	MO	PHC Bandarpada	9724516959
3	Dr. Arpita Gamit	Ayush MO	PHC Agasvan	9537116006
4	Sandip Chaudhari	Pharmacist	PHC Agasvan	7573937344
5	Sunil Gamit	Driver(GJ 18 G 8372)	PHC Jamkhadi	7874708121

**Rapid Response Team:05****Taluka: Uchchhal**

Sr. No.	Name	Designation	Name of P.H.C.	Mobile No.
1	Dr. Vilash Gavit	THO	THO Office Uchchhal	9511836732
2	Dr.Kunal Chaudhari	MO	PHC Karod	9537720370
3	Dr. Archana Chasiya	Ayush MO	PHC Babarghat	9913589174
4	Nilesh Savasiya	Pharmacist	PHC Karod	7990944979
5	Nareshbhai Gamit	Driver GJ 26 N 8332	PHC Bhadbunja	

**Rapid Response Team: 06****Taluka: Kukarmunda**

Sr. No.	Name	Designation	Name of P.H.C.	Mobile No.
1	Dr. Jaydeep Valvi	THO	Block Office Kukarmunda	9727709607
2	Dr. Nayan Vasava	MO	PHC Kukarmunda	8469548464
3	Dr. Murlidar Gule	Ayush MO	Block Office Kukarmunda	9537175882
4	Mehul Vasava	Pharmacist	PHC Kukarmunda	7878992539
5	Mastan Pathan	Driver GJ 05 JC 6358	Block Office Kukarmunda	

**Rapid Response Team:07****Taluka: Nizar**

Sr. No.	Name	Designation	Name of P.H.C.	Mobile No.
1	Dr. Vijaykumar	THO	Block Office Nizar	9727709607
2	Dr. Udayraj Parmar	MO	PHC Veldha	8347008916
3	Dr. Suryakant Patel	RBSK MO	Block Office Nizar	7984052857
4	Kinjalben Vaghasia	Pharmacist	PHC Vanka	8469390051
5	Vickybhai	Driver	Block Office Nizar	9428402392

**Primary Health Centre Medical Officer (PHC MO) Contact detail**

Taluka	Name of PHC	MBBS MO	
		Name of Medical Officer	Contact No. of MO
Dolvan	Dolvan	Dr. Dipti J. Vasava	6357998875/9727709584
Dolvan	Karanjkhed	Dr. Hinal R. Patel	9427575009/6359641381
Dolvan	Padam Dungari	Dr. Maheshvari Patel	9409369533/7434858982
Dolvan	Panchol	Dr. Santosh Gamit	7575044167
Dolvan	Pipalwada	Dr. Nikunj N Chaudhari	9727709555/7874801729
Kukarmunda	Gangtha	Dr. Shehal Chaudhari	8238828586
Kukarmunda	Kukarmunda	Dr. Nayan Vasava	8469548464
Kukarmunda	Sadgavan	Dr. Krupal Chaudhari	7874530009
Nizar	Raygadh	Dr. Purvi Gamit	9727922737
Nizar	Vanka	Dr. Apeksha Lad	9426252288
Nizar	Veldha	Dr. Udayraj B Parmar	8347008916
Songadh	Agasvan	Dr. Bhadrshresh p patel	8980626376
Songadh	Bandharpada	Dr. Jay Chaudhari	6354180719

Songadh	Borda	Dr. Ajit V Vasava	8200635450
Songadh	Gunkhadi	Dr.Priyanka B.Chaudhari	6359886567
Songadh	Jamkhadi	Dr.Santosh M.Wagh	9727709587
Songadh	Khervada	Dr.Nirmal Gamit	9586860185
Songadh	Singpur	Dr.Taniya K Patel	7874668772
Songadh	Ukai	Dr. Bhavna D Patel	9727792893
Songadh	Ukhalda	Dr.Ashish M.Gamit	8128038320
Songadh	Virthava	Dr . Kairavi Chaudhari	8200266283
Songadh	UPHC Songadh	I/C Dr. Nirmal T Gamit	9727709587
Uchchhal	Babarghat	Dr.Rajesh J. Gavit	7574835109
Uchchhal	Bhad Bhunja	Dr. Shreya B. Parmar	9426133956
Uchchhal	Chitpur	Dr.Jayeshkumar K.Agrawal	9823511185
Uchchhal	Karod	Dr.Rohan R.Naik	7567458942 9712898033
Valod	Algat	Dr.Chirag B Patel	9727709557
Valod	Buhari	Dr Tarlika Chaudhari	9727709554
Valod	Degama	Dr. Philip Gamit	9712781092
Valod	Kalamkui	Dr. Rajkumar O Nayak	9727709583
Valod	Kanjod	Dr.Hemangi D Patel	7016919878
Vyara	Balpur	Dr.Kirtila M Vasava	9727709578
Vyara	Champavadi	Dr.Ranjesh N.Chaudhari	9727709577
Vyara	Chhindia	Dr. Nutan R. Chaudhari	9727715039
Vyara	Jesingpur	Dr. Palakh Chaudhari	9106659312
Vyara	Kala Vyara	Dr. Tejal R Chaudhari	9727709581
Vyara	Khanpur	Dr . Sneha Chaudhari	9512249522
Vyara	Lakhali	Dr . Kalpesh K Chaudhari	7874801729
Vyara	Maypur	Dr. Khushboo Chauhan	8320995898
Vyara	UPHC Vyara	Dr. Nishi Shah	9825935364

## Human Resources

Sr.No.	Cadre	Institution								
		PHC	CHC	SDH	DH	Medical College	NGOs	Private Hospital	Education Department	Other ( if any pls specify)
1	Specialist Doctors	0	8	12	22	0	0	0	0	0
2	Medical Officer	62	14	9	11	0	0	0	0	0
3	AYUSH	14	0	0	0	0	0	0	0	0
4	BPNA Staff (Staff nurse)	86	23	55	98	0	0	0	0	0
5	Supervisors (FHS/MPHS/SI/MS etc)	60	0	0	0	0	0	0	0	0
6	FHW	279	0	0	0	0	0	0	0	0
7	MPHW	234	0	0	0	0	0	0	0	0
8	Pharmacist	37	4	4	6	0	0	0	0	0
9	Lab Technician	38	4	4	8	0	0	0	0	0
10	ASHA & ASHA Facilitator	921	0	0	0	0	0	0	0	0
11	Anganwadi Worker	1046	0	0	0	0	0	0	0	0
12	Volunteers	0	0	0	0	0	0	0	0	0
13	Other ( if any pls specify)	105	36	59	70	0	0	0	0	0
	Total	2882	89	143	215	0	0	0	0	0

TRANSPORTATION				
Sr.No .	Institution	Vehicle On Road		
		Ambulance with Ventilator	Ambulance without Ventilator	Total
1	PHC	0	11	11
2	MMU/MHU	0	3	3
3	CHC	0	6	6
4	SDH	0	3	3
5	DH	0	6	6
6	108	4	11	15
7	Private Hospital	7		7
Total				51

#### Other Agencies for Ambulance

Sr.	Agency	No. of Ambulance	Contact person	Contact No
1	Kakrapar	02	Dr. A.K.Chaturvedi	09428821885
2	JK paper mil Ukai	01	Rajen Thakur	09374646330
4	Kalidas Hospital	01	Ajay shah	02626-223873
5	Janak Hospital	01	Ajay shah	02626 220121
6	Rhythm Hospital	01	Dr.SamirChaudhari	02626222833 02626224833
7	Dr.Sailendra&ICU Hospital	01	Dr.SailendraGamit	9687615657

### List of Blood Bank:

Sr.No.	Blood Bank	Address	Name of Incharge	Contact Details
1	Smt.Laxmiben Khushalbhai Patel Raktadan Kendra	Janak Smarak Hospital Compound Kanpura, Vyara, Tapi	Dr.Tejasbhai Shah (9825788464)	(02626-220251) (ikpbb.vyara@yahoo.com)

### Bed Strength

Sr. No.	Institution	Bed Strength Available		
		AC	Non AC	Total
1	PHC	0	200	200
2	CHC	0	210	210
3	SDH	0	120	120
4	DH	0	250	250
5	Private Hospital	-	-	-
	<b>Total</b>	<b>0</b>	<b>780</b>	<b>780</b>

### **MEDICAL & HEALTH DEPARTMENT**

The health and medical services have to play vital role following the emergency. One fold is proper & timely treatments to the victims injured or affected. Persons other fold is to safe guard the public health.

The following actions are suggested for health & medical services.

- A). To ensure the arrangement & preparedness for special medical treatment antidotes and trained doctor Para-medical staff as specified in toxicology at the time of industrial emergency in local pocket area.
- B). On declaration of emergency or on receiving the message or information, prompt medical facilities should be set up e.g. first aid post, casualty. Receiving center/ camp, as per gravity of situation at site. Similarly, arrangement for emergency
- B). operation or special treatment on chemical burn, injury, gas dispersion etc with adequate arrangement, which will can serve the purpose of Base Hospital.
- C). Identification of dead bodies and post mortem arrangement.

- D). To maintain up to-date list with telephone nos. of services of doctors, hospitals, ambulance, primary health center, Para- medical staff, vehicle to meet the emergency situation.
- E). Arrangement to inform the up to-date status time to time to Central Control Room,. Chair Person, Relatives of injured or admitted patients, emergency services etc.
- F). Arrangement to safe guard the public health in case of development of epidemic situation & announcement on safety measure to be taken by public at the time of industrial emergency situation.
- G). To advice & guide the District Crisis Group in respect of medical & health part time to time.
- H). Provision for proper and adequate medicines, life saving drugs, equipments, antidotes etc. related to industrial emergency.
- I). To participate meetings, mock drills / examine and training.
- J). To prepare own detailed action plan to ensure the effective handling of industrial emergency.
- K). Liaison with Central Control Room, Chair Person, Emergency Services organization, agency and other related person.
- L). other duties as required during actual emergency

## **MANAGEMENT OF MASS CASUALTIES**

### **TRIAGE AND COLOR TAGGING**

- Airway
- Breathing
- Circulation

### **THE FOLLOWING INFORMATION SHOULD BE CONTAINED IN THE PATIENT'S COLOR TAG:**

1. Patient's sequence number
2. Name of patient
3. Latest diagnosis and suspected injury
4. Previous treatment as stated on the tag which was placed on the patient at the scene of the disaster
5. Blood type (cross matching/signature)
6. X-ray number

### **PRIORITY FOR IN-HOSPITAL CARE**

#### **RED TAG (1ST PRIORITY): LIFE THREATENING**

- A. obstruction/damage to airway
- B. breathing disturbance (RR >30/min)
- C. circulation disturbance (no radial pulse, weak, irregular or absent carotid pulse)
- D. altered level of consciousness
- E. need for life-saving measures
- F. victims whose injuries demand definite treatment in the hospital but which treatment may be delayed without prejudice to ultimate recovery?

#### **YELLOW TAG (2ND PRIORITY): URGENT**

- A. needs to be treated within 4-6 hours otherwise they will become Unstable



- B. severe burns; burns involving hands, feet or face (excluding Respiratory tract); burns complicated by major soft tissue trauma
- C. hospital admission is required moderate blood loss; back injuries; heat injuries with a normal level of consciousness.

**GREEN TAG (3RD PRIORITY): DELAYED**

- A. minor injuries not threatened by ABC instability
- B. minor fractures, minor soft tissue injuries, minor burns
- C. victims whose injuries are so severe that survival cannot be expected even under the most ideal conditions; obviously mortal wounds where death is certain (such as head injuries or massive burns)

**BLACK TAG (LAST PRIORITY):**

- A. patient is dead
- B. victim is also clinically dead
- C. those who die while awaiting treatment and those in cardiac arrest following trauma.

### Infrastructure in the District (Public and Private)

Name	Number
Anganwadi	1055
Primary School	798
Secondary and Higher Secondary School	160
General Hospital	1
CHC	8
PHC	40
Veterinary Hospital	9

## Annexure: 8 NGO

### NGO List

NO	NGO Name	NGO Owener	Mobile	NGO Services of
1	Seva Charitable Trust Vyara	Shri Kulin Pradhan	9924900433	making Food packet and household kit
2	Shri Limda Ganesh Charitable Trust Vyara	Shri Kulin Pradhan	9824115322	making Food packet and household kit
3	Dhanvantari Charitable Trust Vyara	Dr Atul Desai	9879031621	Services Providing of First Aid/Supply of Medicines
4	Enar Wheel Club Vyara	Kusumben Jayeshbhai Bhulka Bhavan, Vyara	9427150840	making Food packet and household kit
5	National Anti-Crime and Corruption Bureau Vyara	Abrar Multani	9879958786	making Food packet and household kit
6	Anvixa Human Rights Foundation Vyara	Abrar Multani	9879958786	Services Providing of man power availability
7	Crime Investigation Detection Trust Vyara	Abrar Multani	9879958786	Services Providing of man power availability
8	Vardhan Foundation Vyara	Dr.kinsuk Modi	9825499477	Services Providing of First Aid/Supply of Medicines
9	Young Muslim Welfare Society Vyara	MOHAMMED AYAZ PATNI	9998699104	Other- help to widow sisters and study help to poor students
10	Shri Tapi Education and Charitable Trust Vyara	Niravbhai Ashokbhai Adhvaryu	9909890009	making Food packet and household kit
11	Jain society Vyara	Jain society Vyara	9925100167	Provision of food for hungry people
12	Tapi District School Management Board	Tapi District School Management Board	9825323128	Khichdi-Kadi Food Packet
13	Navjagriti Seva Trust Vyara	Navjagriti Seva Trust	9925156898	grocery kit
14	Jeevandeep Trust Vyara	Jeevandeep Trust	9998029195	Food Service
15	Dasha Sorthiya Vanik Samaj Vyara	Dasha Sorthiya Vanik Samaj Vyara	9099103802	Providing ready meals in slum areas
16	Indian Red Cross Service Trust Vyara	Indian Red Cross Service Trust	9825133307	Food Service
17	Sanjeev's Charitable Trust	Sanjeev's Charitable Trust	9879788087	grocery kit
18	Jalaram Seva Mandal Vyara	Jalaram Seva Mandal Vyara	9825262997	grocery kit
19	Poshika Charitable Foundation Trust Vyara	Nevile Bhai Jokhi	9824114141	Medical Facility (CT Scan/Oxygen Facility)
20	Baba Barfani Nisha Snack	Dhansukh Bhai Yadav	9426873441	Dining facility/ Food Service
21	Jain Samaj Khichdi Ghar	Banty Bhai	9377440610	Dining facility/ Food Service

## Annexure: 9

### Animal husbandry Department

Sr	Name	Degisnation	Contcat number
1	Dr R S Gavit	Deputy Director Animal husbanary Dist Panchayat	02626-220679 9427154641
2	Dr B H shah	Assit. Director Animal husbanary	9727129470
3	Dr R.B.Gondliya	Veterinary Officer Vyara	9099899081
4	Dr V.K.Parmar	Veterinary Officer Valod	9825669720
5	Dr N.J.Chaudhari	Veterinary Officer Dolvan	7984352734
6	Dr R R Padher	Veterinary Officer Songadh	9586003708
7	Dr R R Padher i/c	Veterinary Officer Ukai	9586003708
8	Dr R R Padher i/c	Veterinary Officer Uchchhal	9586003708
9	Dr P K Fuletra	Veterinary Officer Fulwadi kukarmunda	9825040386
10	Dr P K Fuletra	Veterinary Officer Nizar	9825040386

Sr	Name	Degisnation	Contact number
1	Dr B.H.Thakre	Deputy Director of Animal Husbandry G.P.S.Y.Tapi	9825800139
2	Dr S.N.Patel	i/c Assit. Director Animal husbanary G.P.S.Y.Tapi	9825803135
3	Dr V.R.Rathod	Assit. Director Animal husbanary G.P.S.Y.Tapi	9712817071
4	Dr. Dr S.N.Patel	Assit. Director Animal husbanary Vet. Poli. Vyara	825803135

## Annexure: 10

### List of Swimmers of Tapi District Home Guards Office

S.N	UNIT	Swimmer Name	Mo. No	Village Name
1	Vyara	Vinod Guman Gamit	8320100587	Umiya Nagar vyara
2	Vyara	Girish Dhanshuk Gamit	9712549202	Magarkui
3	Vyara	Kiran Santilal Chaudhari	9727662073	Jesingpura
4	Vyara	Ashish Dilip Chaudhari	9586344838	Vanskui
5	Vyara	Tulshi Fateshing Chaudhari	9727496264	Katishkuva dur
6	Vyara	Piyush Natu Gamit	9099672202	Magarkui
7	Vyara	Nitesh Navin Chaudhari	8141930406	Khanpur
8	Vyara	Prasant Kanusing Chaudhari	9712494841	Jesingpura
9	Vyara	Narsinh Raman Gamit	8469468258	Kanpura(kh.F)vyara
10	Vyara	Satish Fatesing Chaudhri	9913862496	Katishkuva dur
11	Vyara	Bhaveshe Ganesh Chaudhari	9879028390	Khanpur
12	Vyara	Ajay Arjun Gamit	6353897614	Tichakpura
13	Vyara	Kiran Pravin Gamit	9327411061	Jesingpura
14	Vyara	Kamlesh Ukaji Gamit	8429302359	Gadat
15	Vyara	Hemanshu Pravin Solanki	8238473170	Dolavan
16	Valod	Bhavik pravinbhai dabagar	9638547511	valod
17	Valod	Vipul rameshbhai chaudhari	9913573749	ranveri
18	Valod	Ankur vijaybhai chaudhari	9512458090	vedchhi
19	Valod	Saagar aavshi chaudhari	9537824673	ranveri
20	Valod	Raju jaadavbhai shindhe	9979987065	valod
21	Valod	Dharmesh jeshing gamit	9712255290	valod
22	Valod	Vipul jaytabhai gamit	9727254767	vedchhi
23	Valod	Vipul aravind chaudhari	9638282352	kubhiya
24	Valod	Dharmesh ravindra kokani	9537115049	bojpur
25	Valod	Sundar sankar chaudhari	9099899438	ranveri
26	Valod	Nirmal hasmukh chaudhari	7874870419	vedchhi
27	Valod	Ajay aravind bhai chaudhari	9979142563	valod
28	Valod	Dipak dilipbhai chaudhari	9537356793	valod
29	Valod	Babu arvindbhai chaudhari	9726984544	vedchhi
30	Valod	Sanmukha chhotu chaudhari	8160255943	vedchhi

31	Valod	Amit velajibhai chaudhari	8469280079	ranveri
32	Valod	Rajesh pilajibhai chaudhari	9586164970	Bhimpor
33	Uchahhal	SAMUVEL.BHARAT.GAMIT	6354861109	BHINTKHURD
34	Uchahhal	UMESH.DINA.GAMIT	9638379292	BHINTBUDRUK
35	Uchahhal	ISHAK.BARKIYA.KOTVALIYA	6352732100	BHINTBUDRUK
36	Uchahhal	SHANTILAL.FULAJI.VASAVA	8980476655	NESUVADAPADA
37	Uchahhal	YAHAN.NAVIN.GAMIT	9638790661	BHADBHUNJA
38	Uchahhal	BHARAT.CHIMAN.GAMIT	8238808793	UCHCHHAL
39	Uchahhal	HITESH.MOTIYA.GAMIT	9537492980	BHINTBUDRUK
40	Uchahhal	KESARSING.HARISH.GAMIT	6352578548	BHINTBUDRUK
41	Uchahhal	ANESH.MIRA.GAMIT	9328498613	BHINTBUDRUK
42	Uchahhal	VIKESH.JAGU.GAMIT	7069296999	BHINTBUDRUK
43	Uchahhal	RAFIK.ARJUN.KOTAVALIYA	9925363415	BHINTBUDRUK
44	Uchahhal	MANGALES.H.FATESING.GAMIT	9638868183	BHINTBUDRUK
45	Uchahhal	VINU.UMARIYA.GAMIT	9712335726	BHINTKHURD
46	Uchahhal	GAURANG.RAMESH.NAIK	9099888573	MANEKAPUR
47	Uchahhal	MOHAN.JAYSING.VASAVA	9099631357	KHABADA
48	Uchahhal	RAHUL.ANIL.VASAVA	8238172018	KHABADA
49	Uchahhal	SULEMAN.VASANT.GAMIT	9510558920	BHINTBUDRUK
50	Uchahhal	MAHESH.GANPAT.GAMIT	9327605944	BHINTBUDRUK
51	Uchahhal	TIMOTHI.ANAND.GAMIT	9712781007	UCHCHHAL
52	Uchahhal	PARMESH.GAVANJI.GAMIT	9313028407	BHINTBUDRUK
53	Uchahhal	DHARMESH.SINGA.VASAVA	9327935822	ADGAM
54	Uchahhal	PARESH.MOJU.VASAVA	9023151705	ADGAM
55	Uchahhal	MILAN.SURPA.GAMIT	9727516794	KATASVAN
56	Uchahhal	MANHAR.DASU.GAMIT	9586109007	KATASVAN
57	Uchahhal	JANESH.SANJAY.GAMIT	7984972349	BHINTBUDRUK
58	Uchahhal	VIPUL.MAGAN.VASAVAA	8958468854	MOULIPADA
59	Nizar	Daga Sakham Patel	9499717030	Nizar
60	Nizar	Umesh V Thakare	-	Nizar
61	Nizar	Rupesh Sakham padvi	9624565781	Nizar
62	Nizar	Gautam Uttam Naik	-	Nizar
63	Nizar	Anil Bhagwan Patil	8690868693	Nizar
64	Nizar	Hitesh Sudakar Mahajan	6353815380	Nizar

65	Nizar	Dhanraj Vasantbhai Baisane	9021038743	Nizar
66	Nizar	Mukesh Rajaram Marathe	9377616204	Nizar
67	Songadh	Shailesh Ramesh Paware	9601500585	Songadh
68	Songadh	Chandrakant Digambar Jadhav	8200829385	Songadh
69	Songadh	Jogendra Purushottam Nahvi	9979083312	Gunasda
70	Songadh	Sunil Thakor Gamit	9925686721	Patharda Gam
71	Songadh	Ashwin Arjun Gamit	9687366561	Navi Ukai
72	Songadh	Vinod Ukaji Gamit	6352973612	Bedvan Bhensrot
73	Songadh	Dinesh Arjun Gamit	8758494720	Serula
74	Songadh	Mehmud Gaju Vasava	9727702048	Serula
75	Songadh	Ravindra Darasing Vasava	9712787589	Serula
76	Songadh	Prabhu Ishwar Vasava	9624728035	Serula
77	Songadh	Rohit Revaji Vasava	9925590378	Serula
78	Songadh	Anil Vijay Vasava	8758332218	Ghoda
79	Songadh	Fatesing Viriya Kotwadiya	9712304837	Zarali
80	Songadh	Maju Divanji Kotwadiya	9712311427	Chapavadi
81	Songadh	Rahul Ramesh Vasava	9726856864	Limbi
82	Songadh	Umesh Kantilal Gamit	9978062641	Kukda Dungri
83	Songadh	Sanju Dattu Kotwadiya	9624587975	Chapavadi
84	Songadh	Vinod Segji Kotwadiya	7874007505	Chapavadi
85	Songadh	Anand Babu Kotwadiya	9316195201	Chapavadi
86	Songadh	Navin Vasanji Kotwadiya	8469529020	Zarali
87	Kukarmunda	LALSHING BABULAL VASAVA	9016130920	Kukarmunda
88	Kukarmunda	JITENDRA ASHOK PATEL	97374 62281	Kukarmunda
89	Kukarmunda	TRIPUR NANDKISHOR PANDYA	8758100399	Kukarmunda
90	Kukarmunda	JAVED DILAVAR PINJARA	8155095219	Kukarmunda
91	Kukarmunda	SUNIL PUROSHOTTAM SONAVNE	9554920954	Kukarmunda
92	Kukarmunda	KAVALJITBHAI JAYANT PADVI	7359453791	Kukarmunda

## Annexure: 11

**List of swimmers and boats sent by the office of the Assistant Director of Fisheries Ukai**

NAME OF SWIMMER & BOT OWNER TA.SONAGADH YEAR 2024				
S.No.	Name of swimmer	Gender	Address	Mobile
1	RAMSINGH BABUBHAI VASAVA	M	MUNKIYA,BAVALI TA:SONAGADH DI-TAPI	9913562941
2	DEVALIYA BATHIYABHAI VASAVA	M	MUNKIYA,BAVALI TA:SONAGADH DI-TAPI	9909532329
3	IJUBHAI GOVALABHAI VASAVA	M	MUNKIYA,BAVALI TA:SONAGADH DI-TAPI	9909532329
4	MANJIBHAI VELAJIBHAI VASAVA	M	JUNIBAVALI,TA-SONAGADH	9913123033
5	VINESHBHAI CHIMANBHAI VASAVA	M	JUNIBAVALI,TA-SONAGADH DI-TAPI	9909532329
6	MAHENDRABHAI VECHYABHAI VASAVA	M	JUNIBAVALI,TA-SONAGADH DI-TAPI	9909532329
7	RAMABHAI BHILABHAI VASAVA	M	SERULA,TA-SONAGADH,	9913214659
8	TEJPAL BHILABHAI VASAVA	M	SERULA,TA-SONAGADH,	9909532329
9	RATILAL JETHIYABHAI VASAVA	M	SERULA,TA-SONAGADH,	9909532329
10	VIRENDRABHAI HOMANABHAI VASAVA	M	SERULA,TA-SONAGADH,	9978332286
11	GOPALBHAI FULAJIBHAI VASAVA	M	SERULA,TA-SONAGADH,	9909532329
12	BARDIYABHAI KASIYABHAI VASAVA	M	SERULA,TA-SONAGADH	9909532329
13	VELAJIBHAI MIRAJIBHAI VASAVA	M	SERULA,TA-SONAGADH,	9909532329
14	FULSINGH LALJI VASAVA	M	JUNIBAVALI,TA-SONAGADH	9909532329
15	VINESHBHAI M VASAVA	M	SERULA,TA-SONAGADH,	9909532329
16	TULSIRAM JIVABHAI VASAVA	M	JUNIBAVALI,TA-SONAGADH	9909532329
17	JAYSING JANGALIYA KATHUD	M	BUDHVADA,TA- SONAGADH,DI-TAPI	9909678394
18	SURPABHAI KORAMAABHAI KAATHUD	M	BUDHVADA,TA- SONAGADH,DI-TAPI	9909678394
19	VASANTBHAI MKATHUD	M	BUDHVADA	9909678394
20	RAMANBHAI GGAMIT	M	LIMBI,TA-SONAGADH,	9925826188

**NAME OF SWIMMER & BOT OWNER TA.UCHCHHAL YEAR 2024**

<b>S.No.</b>	<b>Name of swimmer</b>	<b>SEX</b>	<b>Address</b>	<b>Mobile</b>
1	GAMIT HURAJEEBHAAI RAAJYAABHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	9726627430
2	GAMIT RAJYABHAI DHEHYA	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	9687022774
3	VALAVI DEVIDASBHAI SINGABHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8469630227
4	VALAVI SHANKARBHAI DEVALYABHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8140489914
5	GAMIT YOSEPBHAI THAGIYABHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8140489914
6	VALAVI ALPESHABHAI JAALAMASINGBHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8140489914
7	VALAVI RAVIDASBHAI ISARYABHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8140489914
8	GAMIT MAHENDRA RAJYABHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	9726627430
9	GAMIT VINODABHAI PARAMAJEEBHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	9726627430
10	KONKANI NETAJIBHAI NARASINHBHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8140489914
11	VALAVI RAVINDRA GOVINDBHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8140489914
12	VALAVI RAJESHABHAI RADHYABHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	8140489914
13	VALAVI MANISHABHAI SAMUBHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	9687055243
14	VALAVI VILASHABHAI JEKUBHAI	M	AT-POST:-NAARANPUR, TA:-UCHCHHAL,TAPI	9925946958
15	VASAVA JALABHAI HURAJIBHAI	M	AT-POST:-JAAMALI, TA:-UCHCHHAL,TAPI	8140489914
16	VASAVA HARUNBHAI THAKORBHAI	M	AT-POST:-JAAMALI, TA:-UCHCHHAL,TAPI	8140489914
17	VASAVA THAKORBHAI RAVAJEEBHAI	M	AT-POST:-JAAMALI, TA:-UCHCHHAL,TAPI	8140489914
18	VASAVA SURATAN NATHUBHAI	M	AT-POST:-JAAMALI, TA:-UCHCHHAL,TAPI	8140489914



19	VASAVA JERAMABHAI PAARTYABHAI	M	AT-POST:-JAAMALI, TA:-UCHCHHAL,TAPI	8140489914
20	VASAVA KISHANBHAI JERAMABHAI	M	AT-POST:-JAAMALI, TA:-UCHCHHAL,TAPI	8140489914
21	GAMIT KANTILALBHAI LALABHAI	M	AT-POST:-VADADEKHURD, TA:-UCHCHHAL,TAPI	9099311524
22	GAMIT GULABBHAI KANTILAALBHAI	M	AT-POST:-VADADEKHURD, TA:-UCHCHHAL,TAPI	8140489914
23	GAMIT ARAVINDBHAI DHARMBHAI	M	AT-POST:-VADADEKHURD, TA:-UCHCHHAL,TAPI	9586283736
24	GAMIT VIKIKUMAR RAJENDRABHAI	M	AT-POST:-VADADEKHURD, TA:-UCHCHHAL,TAPI	8140489914

## Annexure: 12

### DGVCL Tapi

#### Divisional office

Sr	Name	Degi	Office	Mobile
1	Shri M S Patel	Executive Engineer Tapi	02626-220165	9879200771
2	Shri S F Chaudhari	Dy. Executive Engineer (Tec-1)	----	9978935813

#### Sub- Divisional office

Sr	Dy. Executive Engineer	Sub- Divisional office	Mobile	Office	Custmor care number
1	Shri A R chaube	Dolvan S/D	9727796220	02626-251010	7573016985
2	Shri S H Mistry	Vyara Rural S/D	9879201231	02626-220028	9727723680
3	Shri N G chaudhari	Vyara city S/D	9978920193	02626-222115	9099969221
4	Shri S R Prajapati	Songadh S/D	9925211443	02624-222009	9979860494
5	Shri P S Tomar	Ukai S/D	9727796158	02624-233043	7874035325
6	Shri G R Sondarva	Uchchhal S/D	9925211446	---	8980803875
7	Shri S R Chaudhari	Valod S/D	9925211438	02625-220626	9099969228
8	Shri P J Sing	Nizar S/D	9925211441	02628-244240	8980803874
9	Shri M V Patel	Kapura S/D	6357196423	----	6357097911
10	Shri A D Dhimmer	Kukarmunda S/D	6357231145	02628-244240	8980803874

## Annexure: 13

### R&B Panchayat

#### Team detail formed for precaution during heavy rain/storm Pan (R&B) Division Tapi-Vyara

Sr.N	Taluka	Name of Employee	Mobile No.	Information of Machine	
1	Vyara	Shree Pankajbhai B. Ahir (D.E.E.)	9099388333	JCB-2 Trucks-7	Roller-1
2		A.R. Choudhury (A.E.)	9638916778		
3		Shree V.N.Parmar (A.A.E.)	9712720356		
4	Dolvan	Shree Pankajbhai B. Ahir (D.E.E.)	9099388333	JCB-2 Trucks-5	Roller-1
5		A.R. Choudhury (A.E.)	9638916778		
6		Shree V.N.Parmar (A.A.E.)	9712720356		
7	Valod	Tarunbhai R. Chaudhari -DE	9099834036	JCB - Truck -	Roller-1
8		Parthbhai A. Chaudhari -AAE	8141056055		
9		Akshina A. Patel -AAE	9106992882		
10	Songadh	Shree Vishalbhai C. Gamit	9898966222	JCB-1 Truck-2	Roller-1
11		Shree Falgunbhai J. Patel (A.E)	9427007649	JCB-1 Truck-2	
12		Shree Jigneshbhai M. Gamit (AAE)	9099218686		
13		Shree Ashish T. Vejani (AAE)	9909055937		
14	Uchchhal	Ashishbhai J. Chaudhari -DEE	8849838770	JCB - 1Truck - 5	Roller-1
16		Rupeshbhai Z. Chaudhari -AAE	9726529388		
14	Nizar	Ashishbhai J. Chaudhari -DEE	8849838770	JCB - 1 Truck - 4	Roller-1
17		Sagar G. Rangpariya -AAE	9904832040		
14	Kukarmunda	Ashishbhai J. Chaudhari -DEE	8849838770	JCB - 1 Truck - 4	Roller-1
15		Devisahay R. Kumavat - A.E.	6351077422		

#### Construction agency name connected with R&B Panchayat

Sr No	Agency	Mobile number	Truck	JCB	Roller
1	Anup C Panchal	9825453444	12	4	3
2	Mahesh V Patel	9825389493	2	2	0
3	Keyur sheth	9909208684	4	2	1
4	Rajesh C Patel	9979924024	4	1	1

**Annexure: 14****R&B state Tapi**

Sr No	Name	Degisnation	Mobile No
1	Shri D A Patel	Executive Engineer R&B State Tapi	9979353215

Sr	Sub-Div/Taluko	Name	Degisnation	Mobile No
1	Vyara/Songadh	Shri N H Patel	Dy. Executive Engineer	9227955800
2	Vyara	Shri B R Vasava	Over Shiyar	9978326090
3	Vyara/Songadh	Shri P S Chaudhari	Assisitant Engineer	9408225013
4	Songadh	Shri V B Gamit	Assisitant Engineer	9879339535
5	Valod/Dolvan	Shri J A Patel	Dy. Executive Engineer	9824629702
6	Valod	Shri P V Patel	Add.Assisitant Engineer	9687923428
7	Dolvan	Shri M G Chaudhari	Assisitant Engineer	7359561384
8	Uchchhal/Nizar/ Kukarmunda	Shri A N Gamit	Dy. Executive Engineer	9979844844
9	Uchchhal	Shri S V Chaudhari	Assisitant Engineer	9601649216
10	Nizar	Shri J A Chaudhari	Assisitant Engineer	9426425453
11	Kukarmunda	Shri N N Chaudhari	Assisitant Engineer	9727090369

**HELIPAD DETAIL**

Sr. No.	Location	Helipad Dimension	Latitude	Longitude
1	Madav-Vyara, Tal.: Vyara, Dist.: Tapi.	25 m X 25 m	21° - 05' - 23.3"	73° - 24' - 10.40"
2	Sarvale Village, Tal.: Nizar, Dist.: Tapi.	20 m Dia	21° - 28' - 53.8"	74° - 14' - 44.8"

### Construction agency name connected with R&B state

No	Agency	Contct	Truck	Trector	JCB	Gredar	Roller	Hitachi
Vyara Taluko								
1	R J Patel	9426869090	5	2	2	1	1	-
2	Shriji construction	9727119000 Piyush bhai	8	2	3	-	1	-
Songadh Taluko								
3	Saij construction	9825122112	10	5	2	2	2	1
4	J S kokni	9099539536	1	1	1	-	-	-
Valod Taluko								
5	M V Patel	9825389493	2	1	1	-	-	-
6	Sankap Bildrs	9913587892	4	1	1	1	-	1
Dolvan Taluko								
7	D M Patel	9825389493	1	1	-	-	-	-
8	Pradip shah	9825473044	1	1	1	-	-	-
Uchchhal Taluko								
9	J D Sardhara	9016414291	-	1	2	-	-	-
Nizar Kukarmunda								
10	Sunil marathe	-	-	1	1	-	-	-
11	Umesh chaudhari	-	-	1	1	-	-	-

### Rest house Detalis under R&B State

Sr	guest house and rest house	Phone number	Name of the employee	Employee number	Room	
					AC	Non AC
1	Circuit House/Rest house, Vyara,	02626 - 220068	Shri T.N. Babi (Charge)	7990244788	23	0
2	Rest House, Valod, Valod	02625 - 222085	Shri PV Patel (Charge)	9687923428	2	1
3	Rest House, Dolvan,		Shri M.G.Chaudhari (Charge)	7359561384	3	1
4	Rest House, Uchchal	02628 - 231103	Shri SV Chaudhari (Charge)	8160034301	1	0
5	Rest House, Nizar, Nizar	02628 - 244234	Shri J. a. Chaudhari (in charge)	9426425453	4	0
6	Rest House, Kukarmunda,		Shri N.N. Chaudhari (in charge)	9727090369	5	0

## Annexure:15

### Forest Department Tapi

Sr No	Name	Degisnation	Office	Mobile
1	Shri Punit Nayar	Deputy Conservator of Forest Tapi	02626-222019	9737912010
2	Shri savant Milan mahadev	Asistant Conservator of Forest Tapi	-	8208975237

### Range

Sr No	Taluko	Range forest officer	Range	Mobile
1	Vyara	Shri A L Prajapati i/c	Vyara	7984611291
2	Songadh	Shri A L Prajapati	Fort Songadh	7984611291
3	Songadh	Shri H G Chaudhari	Vajpur	7984297262
4	Dolvan	Smt H R Dave	Unai	9429344334
5	Songadh	Shri H G Chaudhari i/c	Tapti	7984297262
6	Songadh	Smt A B Patel	Kherwada	9978894409
7	Uchchhal	Shri H R Jadhav	Neshu paschim	7016369910
8	Songadh	Kum. M N Gamit	Malangdev	6355355875
9	Uchchhal	Shri M A Patel	Neshu Purv	7990516556
10	Songadh	Shri C K Aajra	Sadadvel	9429657051

**Annexure-16****RTO Office vehicle Data (JCB/Loader & Mounted)**

S. No	Registration No	Owner Name	Current Address	Maker Model	Mobile Number
1	GJ26C0954	JAGDISHBHAI	246 GUJARAT HOUSING BOARD CHIKHLI NAKA KANPURA TA VYARA DI TAPI Gujarat 394650	ARGO 2000	9712078716
2	GJ26C0994	JAY SHREE NEW CHAMUNDA CONSTRUCT.CO	AT PO 55 PANCHAVATI NAGAR CHIKHLI RD KANPURA VYARA TA VYARA TAPI Tapi Gujarat 394650	MST 2 K	9727524348
3	GJ25P0158	ASHOKBHAI	GUJARAT HOUSING BOARD KAPURA VYARA TA VYARA Tapi Gujarat 394650	CONCRETE MIXER	9825941932
4	GJ13EE0691	ANKITKUMAR	AT PO 421 CHAUDHARI FALIYU BEDARAYPURA TAL VYARA Tapi Gujarat 394630	JCB 3D X2 WD EXAVATOR LOADER	9638541553
5	GJ26C0899	GUJCRETE PIPE INDUSTRIES	A/P RES NO 106 B 1 MALOTHA NR KAPURA TA VYARA DIST TAPI Gujarat 394655	ACE HYDRAULIC CRANE MODEL 14XW	9925602630
6	GJ26C1278	MULTANI IMRAN ISMAIL	AP 34 VALMIKI NAGAR POLICE LINE VALOD TA VALOD Tapi Gujarat 394640	JCB 3DX-2WD LOADER	9099632019
7	GJ14M5382	AVINASHBHAI	GETI FALIYU JESINGPUR VYARA Tapi Gujarat 394633	JCB 3DX 2WD	8141806374
8	GJ19AH0401	VIKESHBHAI	NISHAL FALIYU AT HANUMANTIYA POST DHAMODI TA SONGADH Tapi Gujarat 394670	JCB 3DX 2WD	8799034108
9	GJ30P0596	KUTHIYABHAI	AP 226 DADRI FALIYU KELAI TA SONGADH Tapi Gujarat 394670	JCB 3DX	9726567745
10	GJ06JF0175	CHIRAG	A/2 ABHISHEK ROW HOUSE TALAV ROAD VYARA VYARA Tapi Gujarat 394650	JCB 3DX 2WD	9913423655
11	GJ26C1121	HEMANTBHAI	KOTVALI FALIYU SADADVEL TA SONGADH Tapi Gujarat 394365	JCB 3DX-2WD LOADER	9727549952
12	GJ26C1000	BHAGVATIBEN	ASHRAM FALIYU JHANKHARI TA VYARA Tapi Gujarat 394655	JCB 3DX 2WD	9825645584
13	GJ26C0894	NIRMALBHAI	A/P BHATHIJI TEMPLE DADRI FALIYU BEDKUVA TA VALOD DIST TAPI Gujarat 394640	JCB 3DX 2WD	9586816937

14	GJ14M5342	IRFAN	67 2 UMARI FALIYU KHUSHALPURA TA VYARA Tapi Gujarat 394650	424 B	9727524312
15	GJ26C0872	SUNIL	705,JAMADAR FALIYA,B/H ST DEPOT, VANKVEL,SONGADH,TA-SONGADH,DI-TAPI Tapi Gujarat 394670	BACK HOE LOADER	0
16	GJ26C0895	LAKHABHAI	AT PO LAKDKOT ROAD SONGADH 16 TAL SONGADH TAPI Gujarat 394670	MAHINDRA 595 TU	9726170880
17	GJ26C0683	FALGUNIBEN	A/P A 305 SURBHI TOWER VYARA TA VYARA TAPI Gujarat 394650	CASE 1107DX SOIL	9879797621
18	GJ19AH9945	RAJUBHAI	AT/PO-20,JALARAM NAGAR, VELDA TA.NIZAR Tapi Gujarat 394370	MAHINDRA EARTHMASTER	8401441144
19	GJ16BS0422	GULESHBHAI	CHICHBARDI MIRPUR TA VYARA Tapi Gujarat 394655	JCB 3DX 2WD	9925080560
20	GJ26C0929	AADIKBHAI	SAVARPADA FALIYU NARANPUR TA UCHCHHAL Tapi Gujarat 394375	ESCORTS CRANE	9586111291
21	GJ14M5325	SHAILESHKUMAR	644-HOLI FALIYU UNCHAMALA TA-VYARA Tapi Gujarat 394651	JCB 3DX 2WD	9227176228
22	GJ26C1270	JAYESHBHAI	NISHAL FALIYU KALAVYARA GHASIAMEDHA TA VYARA Tapi Gujarat 394360	JCB 3DX-2WD LOADER	8469732081
23	GJ26C0917	JITENDRABHAI	3 SHIV SHANKAR SOCI NIZAR TA-NIZAR DIST-TAPI Tapi Gujarat 394370	JCB 3DX 2WD	9998888724
24	GJ26C0854	RAJESHBHAI	PATEL FALIYU GHERIYAVAV BUHARI Tapi Gujarat 394630	MAHINDRA EARTHMASTER	8141362933
25	GJ26C0968	RAJESHBHAI	114-NISHAL FALIYU KALA VYARA ATPO-KALAVYARA TAL-VYARA Tapi Gujarat 394660	770 LOADER BACKHOE	9227176228
26	GJ26C2600	TUSHAR	4-A,SHIVAM NAGAR,COLLEGE ROAD, VYARA,TA-VYARA,DI-TAPI VYARA Gujarat 394650	PAVER FINISHER MACHINE ESP 05	8999999999
27	GJ26C0795	DY MANAGER	KAPS,KAKRAPAR GUJARAT SITE PO ANUMALA,TA-VYARA,DI-TAPI VYARA Gujarat 999999	ACE HYDRAULIC CRANE MODEL 14XW	9428822347
28	GJ26C1389	MISTRY HITESHBHAI DAHYABHAI	3880, SARVODAY NAGAR TA VALOD, VEDACHHI ROAD TA VALOD Tapi Gujarat 394640	JCB 3DX 2WD	9913210072



29	GJ21QQ1133	RITA	A/P HNO.2 SMART HOMES BH AMARDIP SOC PANVADI TA VYARA Tapi Gujarat 394650	JCB 3DX EXCAVATOR LOADER	9824770013
30	GJ26C0898	YOGESH	A/P THAPAN,BALOTRA DIST BARMER BARMER Gujarat 999999	JCB 3DX 2WD	8238819777
31	GJ26C0664	KISHORBHAI	NISHAL FALIYA AT PO KALA VYARA TALUKA VYARA DISTRICT TAPI Gujarat 394650	770 LOADER BACKHOE	9638133031
32	GJ26C0896	SAWDASBHAI	SHIVAM APPARTMEN FLAT NOM E 2 MIRA RECEDANSCI TA VYARA Tapi Gujarat 394650	JCB 3DX 2WD	9726006310
33	GJ06JF0464	VINODKUMAR	19 RAM NAGAR SOCIETY KANPURA VYARA Tapi Gujarat 394650	MST 2 K	7507207458
34	GJ26C0922	NILESHKUMAR	AT/PO RANIAMBA TA SONGADH DIST TAPI Gujarat 999999	MAHINDRA EARTHMASTER	9427165558
35	GJ19AH9507	NITESHBHAI	AT-PO 233 PATEL FALIYU VADKUI TA VYARA Tapi Gujarat 394651	JCB 3DX 2WD	9979288792
36	GJ26C0864	NARANBHAI	246,NAVI VASAHAT,AT PO VYARA TA VYARA DI TAPI TAPI Tapi Gujarat 394650	JCB 3DX 2WD	8511188864
37	GJ26C5300	RAJESHKUMAR	205 NAVAGAM WANIYA FALIYU SONGADH, TA: SONGADH TAPI Gujarat 394670	TLB 740S BACKHOE LOADER	9979924024
38	GJ26C0684	SUNILKUMAR	OPP S T DEPO UKAI ROAD FORT SONGGADH TAPI Gujarat 394670	TLB 740S BACKHOE LOADER	9879777443
39	GJ26C0841	LAKSHMI ENTERPRISES	A/P MARKET FALIYU NR GUJARATI FALIYA DEVJIPURA TA SONGADH DIST TAPI Gujarat 394670	ACE HYDRAULIC CRANE MODEL 14XW	6354631885
40	GJ26C0897	RANJITBHAI	19 ASHRAM FALIYU JANKHRIJUTH VYARA TAPI Gujarat 394650	TLB 740S BACKHOE LOADER	9909874745
41	GJ26C0696	RAMCHANDRABHAI	AP 631 PAROTH HOUSE SATTESHWARNAGAR SONGADH TA SONGADH Tapi Gujarat 394670	14XW HYDRAULIC MOBILE CRANE	9824843888
42	GJ08AL0265	AKSHAYBHAI	NAHER FALIYU UMARKACHCHH VYARA Tapi Gujarat 394630	EARTHMASTER BACK HOE LOADER	6354036318
43	GJ08AL0127	VIVEKBHAI	AT TAD FALIYU UMARVAV NAJIK PO AMBIYA TA VYARA Tapi Gujarat 394633	EARTHMASTER BACK HOE LOADER	7990304351

44	GJ26C0887	MANOJKUMAR	404,VADI FALIYU,BUHARI TA-VALOD,DI-TAPI TAPI Gujarat 394630	JCB 3DX 2WD	9913797511
45	GJ26C0727	RAMNARESHBHAI	A/P-SHOP NO 14 PARISHRAM PARK OPP. GEB OFF. VYARA TA VYARA DI TAPI Gujarat 394650	ACE HYDRAULIC CRANE MODEL 14XW	9426772201
46	GJ26C0662	YABESHBHAI	61 DUKAN FALIYU ZANKHARI TA VYARA Tapi Gujarat 394655	CASE 770 LOADER BACKHOE	9227176228
47	GJ19AH0191	RAVINDRABHAI	A/PO NAVI UKAI GUNSADA TA SONGADH Tapi Gujarat 394670	MAHINDRA EARTHMASTER	8000118090
48	GJ26C0842	ASHISHKUMAR	37 FLOWER CITY CENTER KANPURA TAL VYARA DIST TAPI Gujarat 394650	MAHINDRA EARTHMASTER	9104006671
49	GJ26C0902	RAKESHBHAI	A/P-PADAMDUNGARI TA DOLVAN DIST TAPI TAPI Gujarat 394635	CASE 770 LOADER BACKHOE	9586434704
50	GJ26C9787	SOHIL	AP VALOD BAJIPARA ROAD VALOD TA VALOD Tapi Gujarat 394690	AL 2518 IL	9825752490
51	GJ14M5532	PATIL AMBALAL	346,PATEL GALLI VELDA VELDA NIZAR Tapi Gujarat 394370	JCB 3DX 2WD SIDE SHIFT LOADER	9637040834
52	GJ26C1013	GAMIT PRASHANT RAMANBHAI	NEAR MAHAKALI MANDIR 119 MAHADEVNAGAR PANVADI TA VYARA Tapi Gujarat 394650	JCB 3DX-2WD LOADER	8988999999
53	GJ02BS0383	BINDUBEN	VAD NI BAJUNU FALIYU INDU TA VYARA Tapi Gujarat 394650	EARTHMASTER BACK HOE LODER	7046303784
54	GJ26C0939	JAY KHODIYAR	A/P-SONARPADA TA SONGADH DIST TAPI TAPI Gujarat 394670	CASE 770 LOADER BACKHOE	9825657071
55	GJ15SV1952	KOKILABEN	PATEL FALIYU RUPVADA SEGUPADA TA SONGADH Tapi Gujarat 394365	JCB 3DX	6351583919
56	GJ21QQ3434	CHUNILALBHAI	KHADI FALIYU VAGHNERA TA SONGADH Tapi Gujarat 394670	LOADER	9327293140
57	GJ26C0901	HIL LIMITED	AT PO OPP COPPER ( DADARIYA ) SUGAR FACTORY TA VALOD TAPI Gujarat 394640	CTERPILLAR 424B	8469617585
58	GJ26C5869	SANDIPKUMAR	PARISHRAM PARK VYARA VYARA VYARA Tapi Gujarat 394650	JCB 3DX 2WD	9978172172
59	GJ26G0343	VYARA NAGAR PALIKA	VYARA NAGAR PALIKA VYARA TAPI Gujarat 999999	450 DX VIBRATORY COMPACTOR	9898888089

60	GJ26C0820	JAI JALARAM STONE QUARRY	A/P-CHIKHLI BHESROT TA SONGADH DI TAPI TAPI Gujarat 394650	WET MIX PAVER FINISHER	8999999999
61	GJ26C7716	RAKESHBHAI	A/P-70/K SCHOOL FALIYU HANUMANTIYA TA SONGADH DI TAPI TAPI Gujarat 394650	JCB 3DX 2WD	9913122965
62	GJ26C0821	MANISHKUMAR	AT ANDHATRI ASHARAM FALIYA TAL VALOD DIST TAPI TAPI Gujarat 394630	ARGO4000S LOAD CONCRET MIXER	9925396604
63	GJ26G0356	VYARA	VYARA TA-VYARA, DI-TAPI TAPI Gujarat 394650	TRAILER	0
64	GJ26C0884	BIPINBHAI	AP-199,PIPLA FALIYU,GHODA TA-SONGADH DIST- TAPI TAPI Gujarat 394680	JCB 3DX 2WD	9586109574
65	GJ26C0882	UJWALABEN	A/P-GANESH NAGAR SONGADH TA SONGADH DIST TAPI TAPI Gujarat 394670	EXCAVATOR LODAR HUNDAI 110	0
66	GJ26C0848	RAVINBHAI	AP 144 SCHOOL FALIYU SHISHOR SITOR TA SONGADH Tapi Gujarat 394651	JCB 3DX 2WD	9638511865
67	GJ26C9898	ANKITKUMAR	A/P-2 MEHNADBHAI NU FALIYU VEDCHHI TA VALOD DIST TAPI TAPI Gujarat 394641	JCB 3DX EXCAVATOR LOADER	9925501000
68	GJ26C0862	SIRAJUDDIN	AT-TADKUVA TAL VYARA DIST TAPI VYARA Gujarat 394650	752 TANDEM VIBRATORY COMPACTOR	9427166457
69	GJ26C0798	NITINBHAI	TADKUWA DUNGARI FALIYA TAL VYARA DIST TAPI TAPI Gujarat 394650	770 LOADER BACKHOE	9586245380
70	GJ26C0709	ANILBHAI	VETHAIYA FALIYU PATHARDA GAM SONAGADH Tapi Gujarat 394670	JCB 3DX EXCAVATOR LOADER	9316533287
71	GJ26C0801	DIVYANGANA	A/P-158 MASTER FALIYA GRAMYA DHAT TA VYARA DIST TAPI TAPI Gujarat 394655	JCB 3DX 2WD	9909677704
72	GJ26C5159	INUSHBHAI	A/PO-PAREKH FALIYA,NR HP GAS OFFICE TA- SONGADH,DI-TAPI TAPI Gujarat 394670	JCB 3DX 2WD	9979681519
73	GJ26C0904	DAMJIBHAI	PANCHVATI NAGAR KANPURA TAL VYARA TAPI Gujarat 394551	ARGO4000S LOAD CONCRET MIXER	9824510351
74	GJ26C7554	KISHORBHAI	23,DAYLA FALIYU,CHAKVAN TA-SONGADH,DI-TAPI TAPI Gujarat 394670	JCB 3DX 2WD	9726555798
75	GJ26C0886	BHAVINKUMAR	NISHAL FALIYU KUMBHIA TA VYARA Tapi Gujarat 394630	JCB 3DX 2WD	9978303322

76	GJ15BB8429	KOKILABEN	PATEL FALIYU RUPVADA KUMKUVA TA SONGADH Tapi Gujarat 394670	JCB 3DX	9099787292
77	GJ14M5476	AJITBHAI	A/PO-7 SABSIDI FALIYU JAMAPUR VAIKUR TA- SONGADH Tapi Gujarat 394670	CASE 770 EX LOADER BACKHOE	9714569025
78	GJ26C8446	PIYUSHBHAI	A/P-112 DADRI FALIYU MUSA TA VYARA DI TAPI TAPI Gujarat 394650	JCB 3DX EXCAVATOR LOADER	9825386027
79	GJ06JF0951	RAVINDRABHAI	AT POST CHAMARAHATI NIZAR NIZAR Tapi Gujarat 394370	3DX BACKHOE LOADER	9316533287
80	GJ17AS0483	RAJESHBHAI	DADRI FALIYU CHAMPAVADI TA VYARA Tapi Gujarat 394650	JCB 3DX 2WD	8140042143
81	GJ26C0944	HIMAT	A/P-213 NAVAGAM VANIYA SONGADH TA SONGADH DIST TAPI TAPI Gujarat 394670	MAHINDRA 605 DI ARJUN	9879553222
82	GJ14M5483	CHHAGANBHAI	A/P-107/K ZAKHARI(BHURIVEL) TA VYARA DI TAPI ZAKHARI Gujarat 999999	JCB 3DX 2WD	8140102843
83	GJ26C0785	ANUPKUMAR	UNAI ROAD,VYARA TA-VYARA,DI-TAPI TAPI Gujarat 999999	450 DX VIBRATORY COMPACTOR	8460263369
84	GJ26C0986	BHIMSINGBHAI	AT PO 34 JHAD PATI UKHALDA 2 TA SONGADH TAPI Gujarat 394670	JCB 3DX 2WD	9979288792
85	GJ14M5486	MOHANBHAI	A/P-19 UPRNIGALI-SARVALA-1 SARVALE TA NIZAR DIST TAPI TAPI Gujarat 394370	L AND T CASE 770 SS	9959999599
86	GJ21QQ1142	DINESHBHAI	195 NAVI VASAHAT VAGADA TA SONGADH Tapi Gujarat 394670	JCB 3DX XTRA	9925444637
87	GJ26C0857	SHAMBHU	A/P 56 MITTAL PARK SOC NADU FALIYU TA VYARA TAPI Gujarat 394650	ACE HYDRAULIC CRANE MODEL 14XW	9427983695
88	GJ26C0804	GAMIT ASHVINBHAI	PATEL FALIYU AT PO CHAMPAVADI VYARA Tapi Gujarat 394650	424B BACKHOE	9099103979
89	GJ26C0881	POWER MECH	C/O.UKAI THERMAL POWER STATION UKAI TA SONGADH DIST TAPI TAPI Gujarat 394680	HYDRAULIC MOBIL CRANE	9099954648
90	GJ26C1100	PARMAR ARIFBHAI HAROONBHAI	NEAR BHAVNA HOTEL VALOD TA BUHARI Tapi Gujarat 394640	JCB 3DX-2WD LOADER	9825752490

**Relief and Rehabilitation Norms (Standards)**  
**Office Memorandum**

**National Disaster Management Authority**

**Guidelines on Minimum Standards of Relief**

**Introduction**

Disaster Management Act (Section 12) mandates National Disaster Management Authority (NDMA) to recommend Guidelines for minimum standards of relief to be provided to persons affected by disaster which shall include:

- (a) The minimum requirements to be provided in the relief camps in relation to shelter, food, drinking water, medical cover, sanitation
- (b) Special provisions to be made for widows and orphans.
- (c) *Ex gratia* assistance on account of loss of life as also assistance on account of damage to houses and for restoration of means of livelihood
- (d) Such other relief as may be necessary

According to Section 19 of the act, the State Authorities shall lay down detailed guidelines for providing standards of relief to persons affected by disaster in the state and such standards shall in no case be less than the minimum standards in the guidelines laid down by National Authority. Hence, NDMA, as mandated by the Act, has worked out the basic minimum standards of relief to be provided to the persons affected by disaster.

Before finalizing the above Guidelines, various meetings were held in NDMA with the representatives of Nodal Ministries / Departments of Govt of India in which senior officials from State Govt. also participated to offer their valuable views. It was observed during the above meetings that the Guidelines on Minimum Standards need to be simple and implementable by the States.

### **Definition of Relief and Rehabilitation Camp:-**

Relief shelters and Rehabilitation camps shall be set up in order to accommodate people affected by a disaster. The camp shall be temporary in nature, with basic necessities. People in the camp shall be encouraged to return to their respective accommodation once the normalcy is returned.

The State Govt / District administration sometimes may not be able to implement all the basic guidelines recommended by NDMA from the day one of the disaster and therefore, the following method shall be followed:-

- (a) First three days ----- Basic norms to the possible extent may be followed.
- (b) 4 to 10 days ----- Efforts should be made to follow most of the norms recommended by NDMA in this Guideline.
- (c) 11 days and above ----- NDMA's prescribed norms shall be followed.

The factors like terrain, climatic conditions at the site of disaster etc. will also impact the requirement and ability of the administration and other stakeholders to deliver relief. These constraints should also be kept in view while prescribing minimum standards of relief.

### **2. Minimum Standards in respect of Shelter in relief camps :-**

- (a) State / UT / District Administration shall take necessary steps to pre-identify locations / buildings like local schools, anganwadi centers / cyclone shelters/ community centers/ marriage halls etc which can be used as Relief shelters where people can be accommodated in case of disaster in the area. In such centers, necessary facilities like sufficient number of toilets, water supply, generators with fuel for power back up during disasters shall be ensured.
- (b) After a disaster, large covered space shall be required to accommodate the affected people. In order to avoid last minute arrangement and high cost, States/UTs can explore the option of advance MoUs with manufacturers / suppliers for supply of factory made fast track pre-fabricated shelters / tents / toilets / mobile toilets



and urinals etc. which can be dismantled and taken back by the supplier after the closure of the camp. This arrangement shall avoid delay in setting up of camp and exorbitant billing of essential supplies.

(c) In the relief centers, 3.5 Sq.m. of covered area per person with basic lighting facilities shall be catered to accommodate the victims. In mountainous areas, minimum covered area shall be relaxed due to lack of available flat land / built up area. Special care shall be taken for safety and privacy of inmates, especially for women, widows and children. Special arrangements should be made for differently-abled persons, old and medically serious patients.

(d) Relief centers shall be temporary in nature and be closed as soon as normalcy returns in the area.

(e) Sufficient number of sites based on population density shall be identified as relief centers and earmarked well in advance at the time of planning and development of a metro/city/town.

3. **Minimum Standards in respect of Food in relief camps:-**

(a) Milk and other dairy products shall be provided for the children and lactating mothers. Every effort shall be taken in the given circumstances to ensure sufficient quantity of food is made available to the affected people (especially for aged people and children) staying in the relief shelters / camps.

(b) Sufficient steps shall be taken to ensure hygiene at community and camp kitchens. Date of manufacturing and date of expiry on the packaged food items shall be kept in view before distribution.

(c) It shall be ensured that men and women are supplied food with minimum calorie of 2,400 Kcal per day. In respect of children / infants, the food to be supplied would be 1,700 Kcal per day.

4. **Minimum Standards in respect of Water in relief camps:-**

(a) Sufficient quantity of water shall be provided in the relief camps for personal cleanliness and hand wash.

(b) It may be ensured that the minimum supply of 3 liters per person, per day of drinking water is made available in the relief camps. Further, the State / UT / District authorities shall adjust the minimum quantity of water etc as per the geographic, demographic and social practices of the region. If other means for providing safe drinking water is not possible at-least double chlorination of water needs to be ensured.

(c) In order to ensure adequate water supply, the location of the source of water supply shall preferably be within the premises of relief shelter /camp. However, the maximum distance from the relief camp to the nearest water point shall not be more than 500 mtrs. if tapped water supply is available.

5. **Minimum Standards in respect of Sanitation in relief camps:-**

(a) **Number of toilets:** 1 toilet for 30 persons may be arranged / built. Separate toilet and bath area be catered for women and children. At least 15 liters of water per person needs to be arranged for toilets / bathing purposes. Hand wash facility in toilets should be ensured. Steps may be taken for control of spread of diseases. Dignity kits for women shall be provided with sanitary napkins and disposable paper bags with proper labeling.

(b) Toilets shall not be more than 50 m away from the relief camps. Pit Latrines and Soak ways shall be at least 30 m from any ground water source and the bottom of any latrine has to be at least 1.5 m above the water level.

(c) Drainage or spillage from defecation system shall not run towards any surface water source or shallow ground water source.



6. **Minimum Standards in respect of medical cover in relief camps:-**

(a) Mobile medical teams shall visit relief camps to attend the affected people. Steps shall be taken to avoid spread of communicable diseases.

(b) If the relief camps are extended over a long time, then necessary arrangement may be made for psychosocial treatment.

(c) Helpline should be set up and contact number and details of which shall be displayed at the relief/shelters and adequately publicized to inform the people.

(d) For pregnant women, necessary basic arrangements shall be made by the local administration for safe delivery.

(e) Advance tie up / arrangement shall be made with the Govt / private hospitals so that necessary doctors / para-medical staff are available at short notice for relief camps to attend to the affected people. In respect of people who are affected and being referred to hospitals for treatment / operation etc, suitable transportation shall be arranged to reach to referred hospital.

(f) In order to manage mass casualty in a disaster, advance contingency plans for management of multiple casualties shall be developed.

7. **Minimum Standards of Relief for Widows and Orphans:-**

(a) In each camp, a separate register shall be maintained for entering the details of women who are widowed and for children who are orphaned due to the disaster. Their complete details shall be entered in the register, duly counter signed by the concerned officials and this register shall be kept as a permanent record with the District administration.

(b) Special care shall be given to widows and orphans who are separated from their families. For widows, certificate by the District Admn shall be issued stating that she lost her husband in the disaster and the same shall be issued **within 15 days of disaster**.

(c) As the widow / family shall be economically weak, the State administration shall provide a reasonable amount for the funeral rites of her husband and this payment shall be deducted from the subsequent financial compensation / relief that shall be paid by the Govt.

(d) Necessary financial compensation and other government assistance need to be arranged within 45 days of the disaster to the widow and to the orphaned children. In respect of orphaned children, similar certificate shall be issued and the children need to be taken care of properly and the funds that may be given to the children by the Govt. shall be duly deposited in a PSU Bank in a Joint A/C where the Collector / DC shall be the first account holder of the Bank account. Interest from the fund can be given to the child / guardian every month for his / her proper upkeep. Education for the child shall be ensured by the District / local administration.

(e) As far as ex gratia assistance on account of loss of life as also assistance on account of damage to houses and for restoration of means of livelihood, the norms provided by Govt of India (Ministry of Home Affairs) for assistance from SDRF should be the minimum standards of relief.

\*\*\*\*\*

## **Annexure:- 18**

### **Damege survey Regarding**

**A. Inspection Team** Inspection Date & Time: \_\_\_\_\_  
 Structure Engineer: \_\_\_\_\_  
 Civil Engineer: \_\_\_\_\_  
 Junior Engineer: \_\_\_\_\_  
 Officer of Local Competent: \_\_\_\_\_  
 Authority (from engg. section) Area Inspected: ☐ Exterior Only  
 Photographer: \_\_\_\_\_ ☐ Exterior & Interior

**B. Type of Disaster**  
☐ Earthquake ☐ Flood ☐ Fire ☐ Cyclone ☐ Blast ☐ Other

**C. Location, Type & Occupancy of Building:**

**Location:** **Brief Details:**  
 Building Name: \_\_\_\_\_ Number of stones above ground: \_\_\_\_\_  
 Address: \_\_\_\_\_ below ground: \_\_\_\_\_  
 \_\_\_\_\_ Parking Floor: ☐ Ground Level  
 \_\_\_\_\_ ☐ Basement Level  
 Contact: \_\_\_\_\_ Phone: \_\_\_\_\_ Approx. Footprint area (sqm): \_\_\_\_\_  
 Survey No.: \_\_\_\_\_ No. of residential units: \_\_\_\_\_  
 Final Plot No.: \_\_\_\_\_ No. of residential units: \_\_\_\_\_  
 Sub Plot No.: \_\_\_\_\_ not habitable  
 Town Planning Scheme No.: \_\_\_\_\_

(To be collected from Competent Authority)

**Type of Construction:**

- |  |   |
|--|---|
| <input type="checkbox"/> Timber Construction<br><input type="checkbox"/> Masonry Construction<br><input type="checkbox"/> Kiln burnt bricks<br><input type="checkbox"/> Unburnt bricks<br><input type="checkbox"/> Random Rubble Uncoarsed<br><input type="checkbox"/> Random Rubble Coarsed<br><input type="checkbox"/> Hollow Concrete Blocks<br><input type="checkbox"/> Steel Structure<br><input type="checkbox"/> Other: _____ | <input type="checkbox"/> Reinforced Masonry<br><input type="checkbox"/> Kiln burnt bricks<br><input type="checkbox"/> Hollow Concrete Blocks<br><input type="checkbox"/> Concrete Frame<br><input type="checkbox"/> Concrete Shear Wall<br><input type="checkbox"/> Dual System<br><input type="checkbox"/> Precast Concrete Construction<br><input type="checkbox"/> Composite Structure |
|--|---|

**Primary Occupancy:**

- |  |  |  |   |
|--|--|--|---|
| <input type="checkbox"/> Individual House<br><input type="checkbox"/> Offices<br><input type="checkbox"/> Government<br><input type="checkbox"/> Semi Government<br><input type="checkbox"/> Emergency Services<br><input type="checkbox"/> Hospital | <input type="checkbox"/> Commercial<br><input type="checkbox"/> Restaurant<br><input type="checkbox"/> Hotel<br><input type="checkbox"/> Industrial<br><input type="checkbox"/> Cinema House, Auditoriums, Assembly Halls<br><input type="checkbox"/> Other: _____ | <input type="checkbox"/> Educational<br><input type="checkbox"/> School<br><input type="checkbox"/> College<br><input type="checkbox"/> University | <input type="checkbox"/> Group Housing<br><input type="checkbox"/> Tenaments<br><input type="checkbox"/> Flats<br><input type="checkbox"/> Historic<br><input type="checkbox"/> Fire Stations |
|--|--|--|---|

**D. Assessment:**

**Investigate the building for the conditions given below and check the appropriate column.**

Observed Conditions	None	Minor	Moderate	Severe
● Collapse, partial collapse, or subsidence or uneven settlement of foundations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Building or story leaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Structural Damage to Bearing Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Structural Damage to Frame Structure				
Columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Column-Beam Junction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stairs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Parapet Wall, Architectural Elements, other Falling Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Subsidence of ground, cracking ground slope movement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Internal Services				
Water supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electricity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Fighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Site Hazards				
Gas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electricity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storm Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Toxic Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sketches:

Photographers:

**Standard Operating Procedure for District Disaster Management Committee  
and Teams and its members**

**Standard Operating procedure for the DDMC:**

**Normal Time:**

- ☐ Responsible for DDMP preparation
- ☐ DMT formation
- ☐ Training of DMT members
- ☐ Identification of senior officers for deployment at various vulnerable pockets during any event
- ☐ Mock drill
- ☐ Updation of DDMP
- ☐ Linkage with developmental programme
- ☐ Fund allocation for mitigation activities
- ☐ Procurement and deployment of equipments

**Pre [after warning]:**

- ☐ Check the plan is up dated or not
- ☐ Up date the resource inventory
- ☐ Coordination with all for various activities
- ☐ See the proper warning dissemination
- ☐ Functional of all control room

**During:**

- ☐ Situation analysis
- ☐ Coordination with all DMTs for effective response
- ☐ Coordination with state if the situation is worst
- ☐ Coordination with nearest district for more resources
- ☐ Suggest appropriate steps to minimise the loss and early recovery

**Post disaster:**

- ☐ Assessment of damages
- ☐ Request for more resources for reconstruction
- ☐ Promotion of disaster mitigation activities

**Hazard specific SOPs for DMT** – Information Management, Search and Rescue, Emergency Health Management, Relief (food, Feed, fodder and Civil Supplies), Transportation Management, Infrastructure Management and Animal Resource Management, and Law and Order DMT

**Information Management Team:**

**Normal time:**

- ☐ Develop the communication strategy from district to village
- ☐ Plan for set up a alternate communication net work to ensure proper warning dissemination and information flow
- ☐ Plan for setting up the control room at district level as well as down below

- ☐ Identification and training of control room officials
- ☐ Development of job chart/ roster
- ☐ Plan for various equipments
- ☐ Training for use of the equipments
- ☐ Plan for a mobile / alternate control room for emergency
- ☐ Up dation of information in the control room i.e. telephone numbers, list of volunteers, maps, equipment list etc.
- ☐ Coordination with block control room

**Pre [after warning]**

- ☐ Ensure the functionality of the control room
- ☐ Ensure the presence duty officers / volunteers
- ☐ Functional of the equipments
- ☐ Assess the areas likely to be affected have communication facilities
- ☐ Ensure the proper dissemination of warning to vulnerable groups
- ☐ Communication linkage with the state and blocks
- ☐ Maintenance of the information records and proper information flow

**During:**

- ☐ Keep communication intake, if required use the alternative control room
- ☐ Information management – flow of information from state to down below
- ☐ Transfer the information to concern desk
- ☐ Dissemination of up date information

**Post disaster:**

- ☐ De-warning
- ☐ Information dissemination regarding the entitlements for the victims
- ☐ Information flow for other dangers
- ☐ Sharing of information civil society/ media

**Search and Rescue Team:**

**Normal time:**

- ☐ Identification of the vulnerable pockets and groups based on the hazard based on the block need
- ☐ Assess the need of equipments for evacuation based on the need of the blocks
- ☐ Identification training need and provision of training
- ☐ Identification of safe or alternate route to the vulnerable blocks
- ☐ Coordination with block DMT for support
- ☐ Coordination with state SAR team for other skills and equipments

**Pre [After warning]:**

- ☐ Chalk out the plan for rescue as per the vulnerability of the district and severity of the situation
- ☐ Alert the district SAR for early deployment
- ☐ Deployment of staff and equipments for early evacuation as per the requirement of blocks
- ☐ Coordination with state SAR team for more equipments and skilled people
- ☐ Coordination with block DMT for support and early evacuation

**During:**

- ☐ Chalk out the plan based on the situation and support the block team
- ☐ If required the send more teams to the area affected

**Post disaster:**

- ☐ Support the block team for safe return of the people to their home
- ☐ Warn the community for future danger

**Emergency health management Team:****Normal Time:**

- ☐ Capability analysis of staff and stock position at various PHC/CHC
- ☐ Identification of vulnerable pockets
- ☐ Setting up a mobile health units to support
- ☐ Identification of staff for deployment
- ☐ Plan for control room at district hospital
- ☐ Coordination with state health team for more drugs and staff
- ☐ List of drug stockist
- ☐ Preparation of drug and equipments indent and submission to state
- ☐ Trained the staff for daily surveillance reporting
- ☐ Trained the PHC/CHC DMT to carry out their work effectively
- ☐ Develop the plan for health education for the community
- ☐ Keep the list of NGO who are involved in health activities
- ☐ Have coordination meeting with them for any eventuality
- ☐ Provide support to PHC/CHC for maintenance of infrastructure
- ☐ Plan for Pre- disaster immunisation programme before disaster season
- ☐ Plan for keep cold chain maintenance for the vaccine

**Pre [after warning]:**

- ☐ Assess the need of the each PHC/CHC for support
- ☐ Coordination with PHC/CHC to control epidemic
- ☐ Generate awareness among community to take safety precaution

Provide necessary drugs and staff to the need areas

- ☐ Keep ready the mobile health unit for deployment
- ☐ Alert all PHC/CHC for emergency
- ☐ Coordination with state for more staff and drugs
- ☐ Activate the control room
- ☐ Check the stock position of medicines and equipments
- ☐ Keep ready the stock as per the requirement
- ☐ Plan for immunisation before disaster strikes
- ☐ Coordination with district administration for transportation and vehicle
- ☐ Coordination/ alert NGO and Civil Society for HR and medicine support

**During:**

- ☐ Keep contact with all PHC/CHC
- ☐ Contact the control rooms for information
- ☐ Keep contact with state
- ☐ Awareness generation through mass media for health safety tips

**Post disaster:**

- ☐ Collection of daily surveillance report to assess the situation
- ☐ If required provide HR and other support to the affected areas



- ☐ Deploy the mobile team
- ☐ Arrange medicine and staff based on the disaster for deployment
- ☐ Generate awareness on health safety tips
- ☐ Provide sufficient disinfectant to the affected areas and coordinate with water supply deptt.
- ☐ Keep the contact with state team for support
- ☐ Coordination with district relief team
- ☐ Coordination with NGO and CS for control of epidemics and health support to the victims
- ☐ Restore the immunisation programme post disaster

**Relief (food, Feed, fodder and Civil Supplies) Team:**

**Normal Time;**

- ☐ Based on the DDMP chalk out the food and fodder requirements for various disasters
- ☐ Identification of stockist/ dealers for procurement during the time of need
- ☐ Identification of godown for pre-positioning
- ☐ Identification of truck association who will provide trucks for transportation
- ☐ Coordination with FCI and State for additional requirement

**Pre [after warning]:**

- ☐ Provide sufficient stocks to the blocks for pre -positioning
- ☐ Coordination with state and blocks for additional requirement
- ☐ Coordination with Animal Resource deptt. For supply of fodder

**During:**

- ☐ Coordination with other deptt. For supply of food and fodder
- ☐ Arrange to air dropping – if required

**Transportation Management Team:**

**Normal time:**

- ☐ Assess the requirement of vehicle for managing any situation
- ☐ Plan for alternative transportation – water, rail way, local method to reach the cut off areas
- ☐ Find out the optimum utilisation of existing vehicle
- ☐ Find out the other source for more vehicle
- ☐ List of transport association
- ☐ Meeting with transport association for support
- ☐ Arrangement for POL

**Pre[after warning]:**

- ☐ Plan for deployment of vehicle
- ☐ Meeting with association for more vehicle
- ☐ Alert all vehicle for service
- ☐ Provide vehicle to the vulnerable blocks for evacuation and transportation of food grains and fodders
- ☐ Arrange necessary support for vehicle movement

**During:**



- ☐ Coordination with all support functionaries for the need of vehicles and its deployment

**Post Disaster:**

Arrangement for the transportation of relief materials

- ☐ Control the price of POL and fare
- ☐ Coordination with check gates for free transportation of relief materials

**Infrastructure Management Team:**

**Normal time:**

- ☐ Assess the need of various infrastructures require to manage any disaster such as safe shelter, drinking water etc.
- ☐ Identification of safe shelters and maintenance of the existing shelters
- ☐ Identification of various materials and dealers for temporary shelter
- ☐ Inform the rescue team for shelter points

**Pre[after warning]:**

- ☐ Check the suitability of the shelter for evacuees
- ☐ If required arrangement of basic services at shelter points for the temporary period
- ☐ List of temporary shelter materials dealers
- ☐ Arrangement for drinking water facilities

**During:**

- ☐ Arrangement of temporary shelter materials
- ☐ Transportation the affected areas

**Post disaster:**

- ☐ Need assessment of construction materials
- ☐ Arrangement for construction materials
- ☐ If required arrangement for more mason and engineers
- ☐ Arrangement for supply of drinking water

**Animal Resource Management Team:**

**Normal time:**

- ☐ Listing of various type of domestic animals
- ☐ Requirement of feed and fodders
- ☐ Requirement of medical aids
- ☐ Vaccination before disaster season
- ☐ Assessment of staff for emergency
- ☐ Assessment for drugs and vaccine
- ☐ Animal health education

**Pre [after warning]:**

- ☐ Awareness generation to protect animals
- ☐ Stock piling of drugs and vaccines
- ☐ Deployment of staffs
- ☐ Stock piling of feed and fodders

**Post disaster:**

- ☐ Arrangement for treatment of affected animals
- ☐ Provision of feed and fodders
- ☐ Vaccination of animal

## Dos' and Don'ts' For Various Hazards/Disasters

### COLD WAVE

#### Before & During

- Keep ready the emergency kit with basic and specific medicines, heaters, wood for fireplace and adequate warm clothings.
- Listen to local Radio Station for critical information about the weather.
- Stay indoors;  
Minimize travel during peak extreme cold hours (very evenings).



early in the morning and late

- Keep dry. Change wet clothing frequently to prevent loss of body heat.
- Watch for signs of frostbite like loss of feeling and white/pale appearance in fingers, toes, ear lobes, and the tip of the nose.
- Maintain proper ventilation when kerosene heaters or coal oven to avoid build-up of toxic fumes.
- take regular hot drinks



#### After

- Continue to protect yourself from frostbite and hypothermia by wearing warm, loose- fitting, clothing in several layers.
- If you live in an avalanche area and an avalanche warning is issued, stay inside unless told to evacuate.



#### COLD-WEATHER CAR KIT

(Shovel, blanket, coats, flashlight, batteries, high-energy food, water, other essentials)

## THUNDER AND LIGHTNING

### Before & During

- If you hear thunder, you may be close to be struck by lightning.
- Keep monitoring local media for updates and warning instructions.
- Keep ready an Emergency/ Survival Kit with important medication.



- Postpone outdoor activities. Stay indoors. Ensure the same for children and domestic animals/ pets as well.
- Remember, rubber-soled shoes and rubber tires provide NO protection from lightning.
- Unplug any electronic equipment well before the storm arrives. Use your battery- operated Radio for updates from local officials.
- Avoid contact with electrical equipment or cords. Unplug appliances and other electrical items, metal fences, and turn off air conditioners. Keep away from utility lines. Do not go close to Fan or TV mast, pipes or vertical metal fixtures.



- Do not lie on concrete floors and do not lean against concrete walls.
- If outdoors, get off bicycles, motorcycles or other vehicles. Look for a safe shelter<sup>i</sup>
- Do not take shelter under trees, as they conduct electricity.
- Remove tree timber which may cause a flying accident.

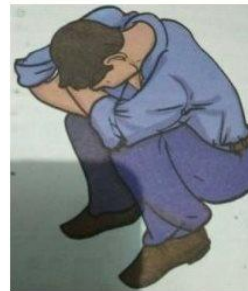




- Livestocks may gather under trees during thunderstorms, which can affect them. Help move animals into a closed shelter.
- Avoid bathing and stay away from running water as lightning can travel along metal pipes.



- If outside, do not lie flat on ground, crouch down with feet together and head down to make yourself a smaller target.



- As far possible, find shelter in low lying area and make sure that the spot chosen does not get flooded. Be alert for flash floods.
- If boating or swimming, get to safe land/ shelter quickly.
- During a storm, remain in your vehicle until help arrives or the storm passes.
- If in a vehicle during a storm, remain inside, without touching metal from inside, keep windows up and park vehicle away from trees and power lines.



- Do not go near forest areas, If, in a forest, seek shelter in low area under a thick growth of small trees.



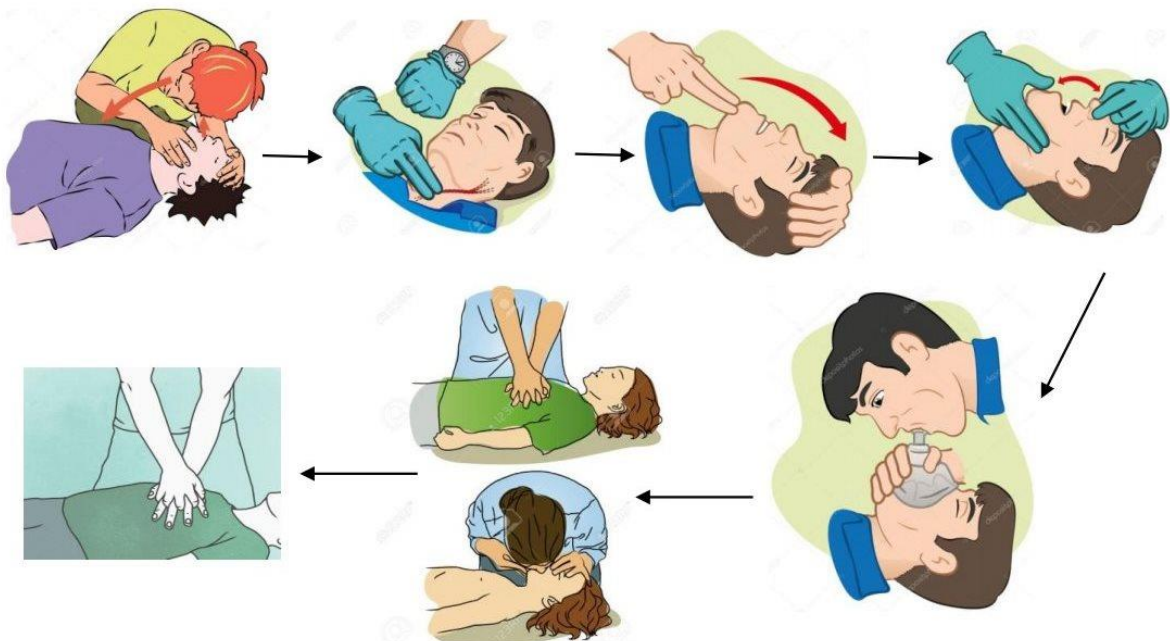
After

- Continue to listen to local radio and television stations for updated information or instructions, as access to roads or some parts of the community may be blocked.
- Help people who may require special assistance, such as infants, children and the elderly.
- Stay away from drowned power lines and report them immediately.
- If possible, give First-aid to the person struck by lightning, take to nearest hospital.
- Remember, person struck with lightning carry NO electrical charge and can be handled safely.
- Victims of lightning strike may suffer varying degrees of burn, look for injury marks and treat accordingly.



### If someone is struck by lightning

- A bolt of lightning can be fatal if it strikes someone on the head and then travels down to the ground. It can also cause severe burns, broken bones, cuts, and unconsciousness; and it can set clothing on fire.
- Do not touch someone who has been struck by lightning if he or she is very wet or in water: you could be electrocuted because the electrical discharge is still within his or her body.
- Dial Ambulance at 102 immediately, even if the person appears to be unharmed.
- If the person's clothing is on fire, follow the instructions on p 16.
- Treat the burns, give first aid.
- If the person is not breathing, start rescue breathing.
- If the person has no signs of circulation, start CPR, else call medical help immediately.



## EPIDEMICS

### Before & During

- Store drinking water and food to last for few days. Use boiled or filtered water to avoid contamination.



- Periodically check your regular prescription drugs to ensure a continuous supply in your home.
- Keep a stock of non-prescribed basic medicines such as pain relievers, stomach remedies, cough and cold medicines, fever, fluids with electrolytes, and vitamins, sanitary pads, baby food items etc.



- Volunteer with local groups to prepare and assist with emergency response, If possible.
- Keep your surrounding clean and do not let the water be stagnant in neighborhood.

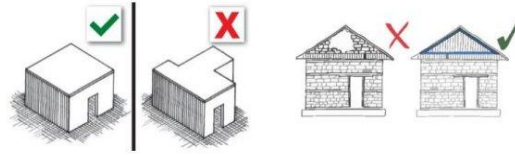




## EARTHQUAKE

### Before & During

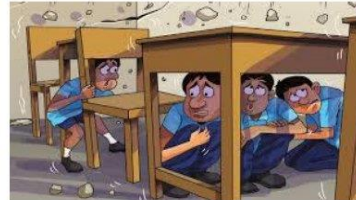
- Make new constructions earthquake resistant in consultation of professional structural engineer, if possible.



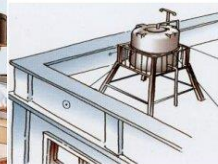
- Prepare a family disaster plan including
  - preparation of emergency kit which will make you self-sufficient for a minimum of three days with adequate supply of drinking water, dry food items, stock of basic medicines, sanitary pads, baby food items etc.
  - Identification of few safe family meeting places; pick easy to identify, open and accessible places that you can easily reach.



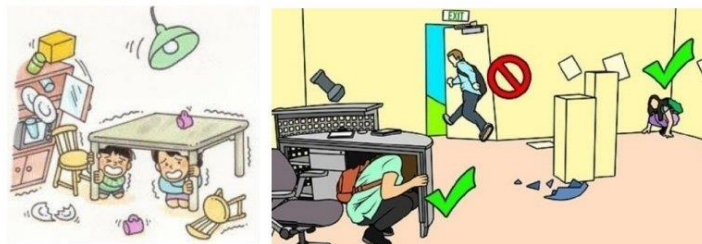
- Conduct regular Mock Drills for school children



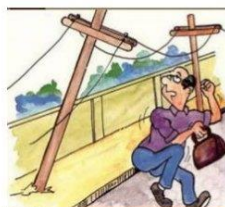
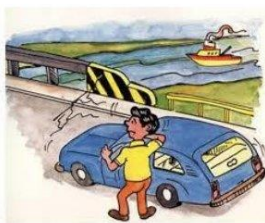
- Falling objects must be given additional fixing so that they don't fall while shaking and cause harm.



- During an earthquake stay calm; if inside, Stay inside. “DROP, COVER and HOLD! Drop under firm furniture. Cover as much of your head and upper body as you can. Hold onto any secure furniture. Move to an inside wall and sit with your back to the wall, bring your knees to your chest and cover your head. Stay away from mirror and windows. Do not exit the building during the shaking. Do not use lift.



- If outdoors, move to an open area away from all structure, especially building, bridges, trees and overhead power lines.



#### After

- Move cautiously, and check for unstable objects and other hazards above and around you.
- Check yourself for injuries. Help those in need.

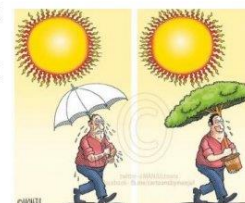




## HEAT WAVE

### Before

- Install temporary window reflectors such as aluminum foil- covered cardboard so as to reflect heat back outside. This will help keep the rooms pleasant.
- Cover windows that receive morning or afternoon sun with drapes, shades.
- Listen to local weather forecasts and stay aware of temperature changes.
- Know those in your neighborhood who are elderly, young, sick or overweight. They are more likely to become victims of excessive heat and may need help.
- Get trained in first aid to learn how to treat heat- related emergencies.
- Plant trees for shades.



### During

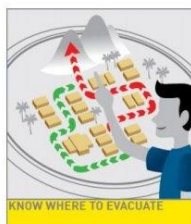
- Never leave children or pets alone in closed vehicles or under direct sunlight for long.
- Stay indoors as much as possible and limit your exposure to the sun.
- Stay on the lowest floor out of the sunshine if air conditioning is not available.
- Eat well-balanced, light and regular meals.
- Drink plenty of water; even if you do not feel thirsty. Keep yourself hydrated.
- Persons with epilepsy, heart, kidney, or liver disease; on fluid- restricted diets; or have a problem with fluid retention should consult a doctor before increasing liquid intake.
- Protect face and head by wearing a hat or cloth.



## FLOODS

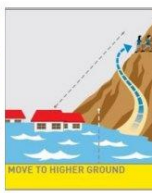
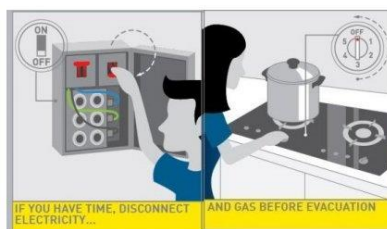
### Before & During

- All your family members should know the safe route to nearest shelter/raised shelters.
- Tune to your local radio/TV for warnings and advice.
- Have an emergency kit ready with basic medicines and sanitary pads, baby food items, important documents etc.
- Keep dry food, drinking water and clothes ready.
- Drink preferably boiled water. Keep your food covered, don't take heavy meals.
- Use sandbags to seal entry points around doors and vents. Also seal windows if the water is likely to rise that high.
- Do not let children and pregnant woman remain empty stomach.
- Be careful of snake bites which are common in post floods.



### After

- Pack warm clothing, essential medication, valuables, personal papers, etc. in waterproof bags, to be taken with your emergency kit.
- Move to high rise floor, raise furniture, clothing and valuables onto beds, tables etc from getting wet.
- Turn off the main power supply. Do not use electrical appliances, which have been in floodwater.
- Do not get into water of unknown depth and current.
- Do not allow children to play in, or near flood waters.



## FIRE

Do's

- Get your premises fire audited; check for loose electric connections; don't store combustible material near loose electric wires.



- In case of fire, dial 101 (or the special number for FIRE SERVICE in your area/town).



- If trapped lay down/sit near the floor; curtail entry of smoke into the room; look for exit; breathe through wet cloth; learn at least two escape routes and ensure they are free from obstacles.
- Remain calm, unplug all electrical appliances. Meet at safe place after exit.
- Keep buckets of water and blankets ready. Keep fire extinguishers and regularly re-fill them.



- If clothes catch fire, STOP DROP and ROLL. Conduct regular drills.



- In case of uncontrolled fire, wrap the victim in a blanket, till the fire ceases.





# CYCLONE

## Before & During

- Listen to radio or TV weather reports and alert everyone through a loud speaker or by going home to home.



- Identify safe shelter in your area. These should be cyclone resistant and also find the closest route to reach them. Move domestic animals to safety as well.



- Keep your emergency kit and basic food supply, medicines, torch and batteries etc.
- Doors, windows, roof and walls should be strengthened before the cyclone season through retrofitting and repairing. Store adequate food grains and water in safe places. Check that doors to garden sheds and garages are also secure.
- Keep flashlights, candles, and matches in case of power outages.
- Do not venture into the sea. Stay Indoors and stand below the strongest part of the house if you have not moved to the cyclone shelter.
- Remain indoors until advised that the cyclone has passed away.
- Do not take shelter close to trees because branches may break off or trees may even be uprooted, and fall on top of you or heavy constructions such as bridges etc.



- During the eye of the storm, move to the other side of your shelter, since the wind will now come from the opposite direction.
- Write each child's name, address, and contact number on a piece of paper and place it in the child's pocket.
- If you are outside, be aware of the dangers of flying objects, falling trees, buildings that may collapse, and damaged power lines.
- If you are in a car, do not try to outdrive a cyclone or heavy winds: if it changes course you will be in danger of being picked up in your vehicle. Remain in the car preferable halting at a safe place.
- Conduct Mock Drills for yourself and the community for evacuation.

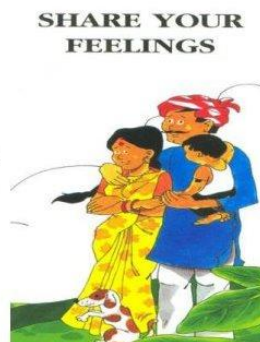


## After

- After the winds die down, wait for at least 1.5 hours before leaving your shelter.
- Do not go out till officially advised that it is safe. If evacuated, wait till advised to go back.
- Do not use power points until they have been checked.
- Use the recommended route to return to your home. Do not rush.
- Be careful of fallen powers lines, damaged roads and houses, fallen trees.



- **PROVIDE PSYCHOLOGICAL FIRST-AID IN ALL DISASTERS**



## **Annexure: 21**

### **Evacuation and Shelter Plan**

#### **Temporary Shelter:**

##### **Urban Area:-**

Local Nagar Palika and TEOC,-District Primary and Secondary Education Officer will be Responsible to Shift safely of Affected Population during any kind of Disaster ,In Tapi District mainly use school, collage /community hall ,and Samaj Vadi for shifting of Affected people.Also already it has been identified ward wise by TEOC AND Nagar Palika. The list of Safe Shelter Included in CDMP Plan. Also find list on SDRN Side. At Urban level City Disaster Management Committee and District Administration directly responsible to Evacuate affected people at Safe Place.

##### **Village area:**

Mainly village area looking by District and Taluka Panchyat with the support of Liaison officer and Respective mamlatdar. Also already Identified Village wise Safe Shelter at village level, like school/community hall/Samaj vadi ect put Detail List in VDMP Plan. Also find list on SDRN Side. District /Taluka/Village Level - District /Taluka /Village Disaster Management Team directly responsible to Evacuate affected people at Safe Place

Pls Refer Annexure:- 119

#### **Evacuation Plan for Kakarapar Atomic Power Station affected Villages**

Pls refer Annexure No- 149

## Annexure:-22

List of Aapda Mitra (Swayam Sevak) swimmers who have received disaster training

Sr.No	Name	Sex	Know swimming	Taluka	Mobile No.
1.	Shubhashbhai R chaudhari	Male	Yes	Songadh	9925728185
2.	satishbhai Amdabhai chaudhri	Male	Yes	Songadh	9726711985
3.	Dineshbhai balubhai chaudhri	Male	Yes	Songadh	9727107326
4.	Arjunbhai ruvabhai chaudhri	Male	Yes	Songadh	9586622891
5.	Niteshbhai Naginbhai Chadhri	Male	Yes	Songadh	9909002445
6.	sureshbhai vasantbhai chaudhri	Male	Yes	Songadh	8238225965
7.	Vinodbhai kahrabhai chaudhri	Male	Yes	Songadh	7574959313
8.	Ansibbhai champakbhai Gamit	Male	Yes	Vyara	8141116370
9.	Niteshbhai Navinbhai Chaudhari	Male	Yes	Vyara	8141930406
10.	Tulsibhai fatesingbhai chaudhari	Male	Yes	Vyara	9727496264
11.	Jayeshbhai saileshbhai Gamit	Male	Yes	Vyara	9712017143
12.	Satishbhai fatesing Chaudhari	Male	Yes	Vyara	9913862496
13.	Piyushbhai Natubhai Gamit	Male	Yes	Vyara	9099672202
14.	Raskibhai Gamanbhai Gamit	Male	Yes	Vyara	9913474705
15.	Navnitbhai Chemabhai Gamit	Male	Yes	Vyara	9712455246
16.	Saradiyabhai Rayabhai Gamit	Male	Yes	Dolvan	9712255966
17.	Narshinhbhai Ramanbhai Gamit	Male	Yes	Dolvan	8469468258
18.	Ravibhai Jitubhai Gamit	Male	Yes	Dolvan	9726388938
19.	Ranikbhai mohanbhai Gamit	Male	Yes	Dolvan	9687481428
20.	Dagabhai H Patel	Male	Yes	Nizar	6351121415
21.	Anilbhai P Patil	Male	Yes	Nizar	9690868693
22.	Umeshbhai V Thakre	Male	Yes	Nizar	9586462780
23.	Rupeshbhai S Padvi	Male	Yes	Nizar	9624565781
24.	Gautambhai U Naik	Male	Yes	Nizar	9979516296
25.	Dhanraj V Besane	Male	Yes	Nizar	9429722403
26.	L B Vasava	Male	Yes	Kukarmunda	9016130920
27.	J A Patel	Male	Yes	Kukarmunda	9265663875
28.	S P Sonvane	Male	Yes	Kukarmunda	8154920154
29.	K J Padvi	Male	Yes	Kukarmunda	7359453791



30.	Samuvel B Gamit	Male	Yes	Uchchhal	9586985157
31.	Aswin G Gamit	Male	Yes	Uchchhal	9586985292
32.	Isak B kotvaliya	Male	Yes	Uchchhal	9727059762
33.	Krushna s Jagade	Male	Yes	Songadh	7567530596
34.	Yakub S Gamit	Male	Yes	Songadh	9712657783
35.	Kamlesh R Saluke	Male	Yes	Songadh	9879919835
36.	Hitesh A Gamit	Male	Yes	Songadh	9099639314
37.	Hitendra V Adatiya	Male	Yes	Songadh	7069506507
38.	Sandipbhai Rameshbhai chaudhari	Male	Yes	Vyara	8980862954
39.	Surendrabhai Anilbhai Gamit	Male	Yes	Vyara	9726006140

### Up scalling Aapda Mitra List 200

Sl. No.	Name	Mobile	Taluka Name	Home Address
1	VINOD GUMAN BHAI GAMIT	8320100587	VYARA	84 HOME VYARA
2	VIPUL ARVINDBHAI CHAUDHARI	9638282352	VALOD	33 home KHUMBHIYA
3	GIRISHBHAI DHANSHUKHBHAI GAMIT	9712549202	VYARA	JAGRUTI FALIYU
4	KAMLESHBHAI UKAJIBHAI GAMIT	8429302359	DOLVAN	GADATFALIYU,BHATHI
5	KIRANKUMAR SANTILALBHAI CHAUDHARI	9727662073	VYARA	HARIJANVAS
6	HIMANSHUBHAI PRAVINBHAI SOLANKI	8238473170	DOLVAN	NAKA FALIYU
7	ASHISHBHAI DILIPBHAI CHAUDHARI	9586344838	VYARA	NISAL FALIYU
8	VILIYAMBHAI VAJESINGBHAI GAMIT	8469529839	SONGADH	PATEL FALIYU
9	NARESHBHAI MOHANBHAI CHAUDHARI	8320949780	DOLVAN	NAKAFALIYU DOLVAN
10	KRUSHNABHAI GORAKHBHAI PADVI	6354769148	Nizar	DARVAJA FALIYU
11	SURESHBHAI SURAPSINGBHAI PADVI	9023708712	Nizar	AADIVASI FALIYU
12	LAKSHMANBHAI DHARIYABHAI PADVI	9573694212	Nizar	DARVAJA FALIYU
13	MANILALBHAI HARIKLALBHAI PADVI	9316568638	Nizar	AADIVASI FALIYU
14	KISHANKUMAR MANOJBHAI PARDESI	9913438148	SONGADH	BAJAR FALIYU
15	JAGDISHBHAI KARMABHAI GAMIT	8238383596	Uchchhal	BHADBHUNJA
16	YOGESHBHAI RUSNIYA GAMIT	8469364510	SONGADH	DOSVADA
17	PANKAJBHAI GULABBHAI GAMIT	9016414005	SONGADH	JAMKHADI
18	SUSHILKUMAR TUKARAMBHAI GAMIT	6151166463	Uchchhal	BHADBHUNJA
19	ENIYASHBHAI ISHVARBHAI GAMIT	9313969360	SONGADH	DHANMAULI



20	PRAGNESHKUMAR AMRUTBHAI GAMIT	7016535420	SONGADH	NANA BANDHARPADA
21	JAGANBHAI TARIYABHAI GAMIT	7990035834	Uchchhal	BHADBHUNJA
22	SANDIPBHAI RAMESHBHAI CHAUDHARI	9737648264	VYARA	KAPURA
23	CHETANBHAI SURESHBHAI CHAUDHARI	9099820711	Vyara	HOLI FALIYU UNCHAMALA
24	NILESHBHAI NARSINGHBHAI CHAUDHARI	9727225348	Vyara	DEVANIFALIYU
25	SNEHALKUMAR ASHVINBHAI GAMIT	9512154448	Vyara	DUNGARI FALIYU
26	SATISHBHAI AJITBHAI GAMIT	8849878608	SONGADH	BEDI
27	MITULBHAI NAVINBHAI KONKANI	6351467977	VALOD	PACHALI FALIYU
28	NIRMALBHAI HASHMUKHBHAI CHAUDHARI	7874870419	VALOD	MANDIR FALIYI
29	KEVINBHAI SURESHBHAI KONKANI	8469509992	VALOD	PACHHALI FALIYU
30	PRAKASHBHAI LALLUBHAI CHAUDHARI	6355570131	VYARA	HOLI FALIYU
31	JIGNESHBHAI SUPADIYABHAI CHAUDHARI	9712494598	VYARA	RAMJI FALIYU
32	NITINBHAI NARANBHA VASAVA	9512945176	SONGADH	BAVLI
33	RAVIBHAI GHEMABHAI VASAVA	9909102198	SONGADH	AASHRAMFALIYU
34	SARVARBHAI MANSINGBHAI BHIL	9016623351	Nizar	AANGANVADI FALIYU
35	RAVIYABHAI HIRKABHAI GAMIT	6351550445	DOLVAN	AASHRAMFALIYU
36	TULSIDAS FATESINGBHAI CHAUDHARI	9727496264	VYARA	KATISKUVA
37	SHAKTIDAN AVICHALDAN GADHVI	8488000101	VYARA	FIRE STATION QUATER
38	JIGNESHDAN AAVADDAN KUNCHALA	9586828151	VYARA	FIRE STATION QUATER
39	PRADIPKUMAR ASHOKBHAI PARMAR	9574727290	VYARA	FIRE STATION QUATER
40	DINESHBHAI TEJABHAI CHAUDHARI	7490907296	VYARA	FIRE STATION QUATER
41	VIPUL JAYTA GAMIT	9727254767	Valod	VECCHHI
42	DHARMESH RAVINDRA KOKNI	7990330542	Valod	DEGAMA
43	SUNDAR SHANKAR CHAUDHARI	9099899438	Valod	RANVERI
44	DIPAKKUMAR DILIPBHAI CHAUDHARI	9537356793	Valod	VALOD
45	AJAYBHAI ARVINDBHAI CHAUDHARI	9979142563	Valod	VALOD
46	Piyush Natubhai gamit	9099672202	Vyara	MAGARKUI
47	Chandrakant Digambar Jadhav	8200829385	Songadh	Songadh
48	Yakub Shankarbhai Gamit	9712663298	Songadh	moti bhurvan
49	Sunil Thakor Gamit	9925686721	Songadh	Patharda Gam
50	Ashwin Arjun Gamit	9687366561	Songadh	Navi Ukai

51	Navin Vasanji Kotvaliya	9099773984	Songadh	amba zarali
52	Dinesh Arjun Gamit	8758494720	Songadh	Serula
53	Mehmud Gaju Vasava	9727702048	Songadh	Serula
54	Ravindra Darasing Vasava	9712787589	Songadh	Serula
55	Prabhu Ishwar Vasava	9624728035	Songadh	Serula
56	Rohit Revaji Vasava	9925590378	Songadh	Serula
57	Anil Vijay Vasava	8758332218	Songadh	Ghoda
58	Fatesing Viriya Kotwadiya	9712304837	Songadh	Zarali
59	Maju Divanji Kotwadiya	9712311427	Songadh	Chapavadi
60	Rahul Ramesh Vasava	9726856864	Songadh	Limbi
61	Sanju Dattu Kotwadiya	9624587975	Songadh	Chapavadi
62	Umesh Kantilal Gamit	9978062641	Songadh	Kukdadungri
63	NIKUNJBHAI BPINBHAI GAMIT	7434976484	Valod	Kalamkui
64	JIGNESHBHAI MANOJBHAI Chaudhari	9537499174	Valod	Bajipura
65	Bhavin Bakul chaudhari	9638361917	Valod	Kaher
66	Hemant Narendra Halpati	8758555091	Valod	Syadala
67	Nimesh Mahendra Konkni	7874333237	Valod	Degama
68	MINESH RUSTAMBHAICHOUDHARI	9979653694	Dolvan	Kamlapur
69	AJAY AMRUTBHAI NAYKA	8758808561	Dolvan	Umarvav dur
70	VIKESH CHHAGANBHAI KOKANI	7069114699	Dolvan	Karanjkhed
71	RAJESH RAMINBHAI CHOUDHARI	8980998596	Dolvan	Panchol
72	KIRAN KESURBHAI GAMIT	9265280228	Dolvan	Pithdara
73	Sanjay Mukesh chaudhari	9909642778	Dolvan	kakadva
74	Jignesh Prabhu Chaudhari	9978966062	Dolvan	Beda Raypura
75	Jignesh Suresh Gamit	7990186496	Dolvan	Beda Raypura
76	HIMMAT INDAS THAKARE	9586689024	Nizar	NIZAR
77	KISHOR PIRSING PADVI	9537621404	Nizar	VELDA
78	SARAS BUTASING PADVI	7507449755	Nizar	HATHODA
79	MAGAN DHARAMDAS PADVI	9913138758	Nizar	NEVALA
80	SHANKAR JITYA PADVI	9673853128	Nizar	HATHODA
81	SHANKAR TANAJI PADVI	7096398402	Nizar	UNTAVAD
82	INDVE VIKASH AKASH	8141727645	Nizar	VELDA

83	SUKHDEV VISHNU PADVI	6355301381	Nizar	VELDA
84	GOKUL DADABHAI PANPATIL	7698761143	Nizar	VELDA
85	NIKETANBHAI NAVINBHAI CHAUDHARI	9913775242	VALOD	KELKUI
86	KRUNAL HASMUKHBHAI CHAUDHARI	9574912494	VALOD	KALAMKUI
87	KAUSHIKBHAI KARTIKBHAI CHAUDHARI	9913481936	VALOD	VEDCHHI
88	YAGNIK BALDEV RATHOD	9727212719	VALOD	KAHER
89	MEHUL BABUBHAAI CHOUDHARI	8238198060	DOLVAN	DOLVAN
90	AANAND RANCHHODBHAI GANGODA	9723571052	DOLVAN	TAKIYAAMBA
91	VIKASH LOTAN PADVI	7567747371	NIZAR	HARDULI
92	SHAILESH BONDALIYABHAI GAMIT	9979303235	SONGADH	KANJI PST SADAVEL
93	PIYUSH HITU CHAUDHARI	96388933774	VALOD	KAHER
94	CHINTESH NARENDRABHAI CHAUDHARI	9712070902	VYARA	KAPURA
95	KIRAN KEVJI CHAUDHARI	7434919493	VYARA	VYARA
96	HEMANT HANSMUKH GAMIT	9537060178	VYARA	PERVAD
97	CHANDRESH SANKAR GAMIT	9537360568	VYARA	SHAHPUR
98	PRAKASH BIJNA GAMIT	9338098355	VYARA	PANIYARI
99	VISHAL JAGDISH GAMIT	9638036904	VYARA	KAPURA
100	AVAN RAKESH GAMIT	9727363734	VYARA	KHUTADIYA
101	DIVYESH TARESH GAMIT	9265006837	VYARA	KAPURA
102	JAYESH SATISH GAMIT	8469797486	VYARA	BEDKUVA
103	ROHAN BHILA GAMIT	9328717793	VYARA	KHURDI
104	VILASH KASIRAM GAMIT	7874666372	UCHCHHAL	NARANPUR
105	SALEM REJA GAMIT	6353169570	UCHCHHAL	DHAJ
106	PARESH NATVAR GAMIT	8780861711	UCHCHHAL	VADPADA
107	KARTIK AJABSHING VALVI	8160941712	UCHCHHAL	AMODA
108	VIRSHING REVANJI GAMIT	9313405585	UCHCHHAL	PARCHOLI
109	Rahul Anil vasava	8238172018	UCHCHHAL	Khabada
110	Magit Raktiya Gamit	9510687782	UCHCHHAL	Bhintkhurd
111	Vipul Magan Vasava	8758468854	UCHCHHAL	Moulipada BABARGHAT
112	Devidas Dika Gamit	7698531031	UCHCHHAL	Parchuli thuti
113	Paresh Mojubhai VASAVA	9023151705	UCHCHHAL	AADGAM PO-KUIDA
114	VINOD UKAJI GAMIT	6352973612	SONGADH	BEDVAN BHENSROT

115	Gurji Ramji Kotvaliya	8980472940	SONGADH	Zarali
116	AMIT BHIKHLA GAMIT	7621825848	SONGADH	PATHRDA UKAI
117	LAJARSH RAMJI VASAVA	9638376105	SONGADH	LIMBI
118	KAILESH MANILAL VASAVA	8141585055	SONGADH	LIMBI
119	MITESH MAHENDRA GAMIT	9727604680	SONGADH	PIPALKUVA
120	Harishchandra Suman Gamit	9909772074	SONGADH	DOSWADA
121	PIYUSH DHULJI GAMIT	9726072256	SONGADH	TARSADI
122	CHAUDHARI VIPUL RAMESH	9913573749	VALOD	RANVERI
123	CHAUDHARI RAJESH PILJI	9586164970	VALOD	BHIMPOR
124	CHAUDHARI ANKUR VIJAY	9512458090	VALOD	VEDCHI
125	CHAUDHARI SAGAR AVESI	9537824673	VALOD	RANVERI
126	ARVIND ASHOK VALVI	8238881641	KUKARMUNDA	AT RAJPUR PO-FULWADI
127	VISHVANATH MAHENDRA PADVI	7984490909	KUKARMUNDA	AT PANIBARA PO-MORMBA
128	VALVI NILESHCHANADRA GANPAT	7573068286	KUKARMUNDA	AT RAJPUR PO-FULWADI
129	AKSHAY VASTUPAL VALVI	9327199725	KUKARMUNDA	MORAMBA
130	VALVI SUNIL DILIP	6352896292	KUKARMUNDA	AT AMODA
131	ALPESH JAGAN PADVI	6351120433	KUKARMUNDA	ZIRIBEDA
132	RAJNI VASANT VASAVA	9638794483	NIZAR	TAPI KHADKALA PO-RUMKITALAV
133	GANESH MOTIRAM PADVI	9712606573	NIZAR	RUMKITALAV
134	RAVI BASARAT PADVI	8849862752	NIZAR	NIZAR
135	SALVE ROHIT BAPU	6354087549	NIZAR	VELDA
136	DAUD CHHAGAN VASAVA	8980168164	UCHCHHAL	JAMLI PO-NARANPUR
137	VALVI AYUB RAVIDAS	9586801208	UCHCHHAL	MOGALBARA
138	RAVINDRA MURIYA GAMIT	8238167366	UCHCHHAL	UCHCHHAL
139	RASIK GORU GAMIT	9725090711	UCHCHHAL	BHADBHUNJA
140	DANIYEL KISHAN GAMIT	9638819263	UCHCHHAL	BHADBHUNJA
141	PITAR PRABHU KATHUD	9512250735	UCHCHHAL	AT PO THUTI
142	SHAILESH ARJUN KOTVALIYA	7874288118	UCHCHHAL	BHITBUDRAK NAVU
143	DIPAK JAYU KOTVALIYA	8780452233	UCHCHHAL	BHITBUDRAK NAVU
144	AMIT PARBHU GAMIT	9586621129	UCHCHHAL	PARCHULI PO-THUTI
145	MINESH DINESH GAMIT	9638733259	UCHCHHAL	JAMKI PO-BHADBHUNJA
146	AJAY JAYA GAVIT	9099303824	UCHCHHAL	KHABDA

147	SHIVRAM KANTILAL VASAVA	9510893385	UCHCHHAL	NAVI JAMLI PO- NARANPUR
148	SATISH JALAMSING VASAVA	9510724625	UCHCHHAL	VADADEKHURD PO- CHHAPTI
149	RAJU KANTU VALVI	9727346919	UCHCHHAL	NARANPUR
150	NILESH SAMJI VASAVA	9714283336	UCHCHHAL	PETHAPUR
151	SANDIP GULAB VASAVA	7874521662	SONGADH	GUNDI PO-BORDA
152	ASHISH BHIMSING VASAVA	9913338053	SONGADH	GUNDI PO-BORDA
153	BINESH PRATAP VASAVA	8980872945	SONGADH	KUILIVEL
154	JITENDRA RAJU PARDHI	9712252327	SONGADH	ISLAMPURA-SONGADH
155	JEMS SUBHASH GAMIT	9099521336	SONGADH	PIPALKUVA
156	DAUD KALYANJI GAMIT	8980215908	SONGADH	AMALGUNDI
157	ANKUR ARVIND GAMIT	7567921380	SONGADH	AMALGUNDI
158	NILESH MANSUKH GAMIT	9327892007	SONGADH	GOPALPURA
159	ANIL PRAVIN GAMIT	7069645102	SONGADH	GOPALPURA
160	MARTIN HARISH GAMIT	9099887817	SONGADH	SRAVANIYA
161	INESH VIRJI VASAVA	9909833609	SONGADH	KUILIVEL
162	KAMALHANSH MAHENDRA GAMIT	9574431644	SONGADH	PIPALKUVA
163	BHAVESH ARUN GAMIT	7490895727	SONGADH	BHIMPURA
164	ANISH DINA GAMIT	9825779109	SONGADH	BHIMPURA
165	NILESH DILIP VASAVA	7041192049	SONGADH	BORDA
166	RANJIT AMJA VASAVA	7698457236	SONGADH	SERULA
167	SANJAY MANSING GAMIT	7573933637	SONGADH	PIPALKUVA
168	RAJU RAMA GAMIT	7623856880	SONGADH	SINGALKHANCH
169	MANOHAR DASU GAMIT	9586109007	UCHCHHAL	KATASVAN
170	MILAN SURPA GAMIT	9727516794	UCHCHHAL	KATASVAN
171	ASHISH KAMAJI GAMIT	9586085651	UCHCHHAL	RAVJIBUNDA
172	DHARMESH SHINGA VASAVA	8238876593	UCHCHHAL	AADGAM
173	SINKDAR DINESH GAMIT	9714652298	SONGADH	SONGADH RAILWAY STATION
174	NITESH NAVIN CHAUDHARI	8141930406	VYARA	KHANPUR
175	HIMANSHU PRAVIN SOLANKI	8238473170	DOLVAN	DOLVAN
176	PRASANT KANUSING CHAUDHARI	9712494841	VYARA	JESINGPURA
177	NARSHIH RAMAN GAMIT	8469468258	VYARA	KANPURA KHATAR FALIYU

178	RASIK GAMAN GAMIT	9913474705	VYARA	KATISKUVADUR
179	ANAND BABU KOTAVALIYA	9316195201	SONGADH	CHAPWADI
180	DIVYESH SURESH GAMIT	7567976760	DOLVAN	GADAT
181	MAYANK RAYSING CHAUDHARI	9825271787	VYARA	DHAT
182	SHAILESH KIKU GAMIT	9913786154	SONGADH	MOTA BANDHARPADA
183	AYUB RAYSINNG GAMIT	6352497683	VYARA	MAYUPUR
184	AMIT MIRA GAMIT	8469038024	SONGADH	JAMKHADI
185	MANISH UMARIYA GAMIT	7567666467	SONGADH	HIRAVADI
186	JEMSH SUMAN VASAVA	9265136470	SONGADH	SERULA
187	SUNIL GAMBHIR VASAVA	8980986197	SONGADH	LIMBI
188	RAHUL UMESH VASAVA	9979327071	UCHCHHAL	CHITTPUR
189	PRIYANK RAJU VASAVA	6352249251	UCHCHHAL	CHITTPUR
190	SHANTILAL PHULJI VASAVA	8980476655	UCHCHHAL	VADPADA NESU
191	HITESH MOTIA GAMIT	6354044436	UCHCHHAL	BHITBHUDRAK
192	JANESH SANJAY GAMIT	7874947056	UCHCHHAL	BHITBHUDRAK
193	PARMESH GAVJI GAMIT	9313028407	UCHCHHAL	BHITBHUDRAK
194	BHAVIK P DABGAR	9638547511	VALOD	BHAVNINAGAR VALOD
195	RAJU J SINDE	9979987065	VALOD	VALOD
196	DHARMESH JESING GAMIT	9712255290	VALOD	VEDCHHI
197	BHAVESH GANESH CHAUDHARI	9879028390	VYARA	KHANPUR
198	AJAY ARJUN GAMIT	6353897614	VYARA	TICHAKPURA
199	KIRAN PRAVIN GAMIT	9327411061	VYARA	JESINGPUURA
200	HARSHIT SARATAN RATEDA	9925615370	VYARA	KAPS ANUMALA TOWNSHIP UCHAMALA

**Annexure: 23****State Level Emergency Contacts Number**

<b>Sr. No.</b>	<b>EOCs/ Control rooms</b>	<b>Code</b>	<b>Contact Numbers</b>
<b>1</b>	<b>State Emergency Operation Center</b>	<b>079</b>	<b>23251900,23251902, 23251907 23251914 (1070) F- 23251916, 23251912 (Sat Phone: 881621467711</b>
<b>2</b>	<b>Relief Commissioner</b>	<b>079</b>	<b>23251506,23250301,23250799 ,23251568 (1070) Fax:23251507</b>
<b>3</b>	<b>Director of Relief</b>	<b>079</b>	<b>23251611, 23251612, 23251916, 23251912</b>
<b>4.</b>	<b>CEO, GSDMA</b>	<b>079</b>	<b>23259502, 23259283, 23259276 Fax:23259275, 23259383</b>
<b>5</b>	<b>Pri. Secretary Revenue Department</b>	<b>079</b>	<b>23251501,23251507 Fax: 23251591, 23251508</b>
<b>6</b>	<b>Dy. Collector (SEOC)</b>	<b>079</b>	<b>23251900,23256335, 2325190, Fax:23251916</b>
<b>7</b>	<b>India Methodology Department , Ahmadabad</b>	<b>079</b>	<b>22865165,22858020 22865012,22865449 Fax:22865165, 22865449</b>
<b>8</b>	<b>Institute of seismological Gandhinagar</b>	<b>079</b>	<b>66739001,66739000 Fax:66739015,66739028</b>
<b>9</b>	<b>NDRF team Gandhinagar</b>	<b>079</b>	<b>23201551, 23202540, 23201551 F- 2320254</b>
	<b>NDRF team Vadodara (Jarod)</b>	<b>02668</b>	<b>02668-274242/2992021 9870006730/9723632166</b>
<b>10</b>	<b>Commandant of NDRF team Gandhinagar</b>	<b>079</b>	<b>23201551, 23202540 094288 26445,94273 04217, 94273 04213</b>
<b>11</b>	<b>District EOC Help line</b>	<b>02626</b>	<b>1077</b>
<b>12</b>	<b>Stats EOC Help line</b>		<b>1070</b>
<b>13</b>	<b>Surat Airport</b>	<b>0261</b>	<b>0261-2700200/295 0261-2700203</b>
<b>14</b>	<b>Army Gandhinagar</b>	<b>079</b>	<b>23201507/03 23200930</b>

**Annexure:-****Taluka Level Flood Control Room of Tapi District Tapi**

<b>Sr No</b>	<b>Taluka Control Room</b>	<b>Number</b>
1	District Emergency operation center Vyara	02626-223332 (1077)
2	Mamaltdar Office Vyara	02626-224012
3	Mamaltdar Office Dolvan	02626-251012
4	Mamaltdar Office Valod	02625-220021
5	Mamaltdar Office Songadh	02624-222023
6	Mamaltdar Office Uchchhal	02628-231105
7	Mamaltdar Office Nizar	02628-244223
8	Mamaltdar Office Kukarmunda	02628-223324

**Ukai Dam Flood Control Room**

<b>Sr No</b>	<b>Control Room</b>	<b>Number</b>	<b>Mobile</b>
1	Ukai Dam Flood Control Cell	02624-233267	8758637138
2	Hathnur Dam (M.H)	02582-277044	
3	Jalgav Flood control Room	0257-2239869	

**Ukai and Doswada Dam Control Officers**

<b>Sr No</b>	<b>Name</b>	<b>Designation</b>	<b>Office</b>	<b>Mobile</b>
1	Shri H.N. Chaudhari	Executive Engineer Ukai-1	02624-233289	9727744362
2	Shri K R Vasava	Executive Engineer Ver-2 Vyara	02626-222090	9998703942



## Annexure:-25

**Tapi Police Control Room-Ph. No. 02626-221500/Fax 02626-220100**  
**e-mail address:- [sp-tapi@gujarat.gov.in](mailto:sp-tapi@gujarat.gov.in)**

No	Designation	Officer's Name	Mobile No.	Phone Number	Resi.No.
1	Superintendent of Police	Shri Rahul Patel	9978405488	02626-222700	02626-222722
2	Dysp. Vyara Divi.	Shri P.G.Narwade	9978408077	02626-224193	-
3	Dysp. Nizar Divi.	Shri. I.N.Parmar	9725787233 7984674873	-	
4	Dysp HQ	Shri J.S.Nayak	9925032804	02626-222900	02626-223401
5	I/C Dysp.Sc/St Cell	Shri J.S.Nayak	9925032804	-	-
6	PI L.I.B	Shri H.G.Rabari	7801962223	02626-221518	-
7	I/C PI L.C.B	Shri N.G.Panchani	9638272632	02626-221509	-
	PSI L.C.B	Shri J.B.Ahir	9638333910		-
8	PI S.O.G	Shri K.G.Limbachiya	9825351999	02626-221509	-
	PSI S.O.G	Shri N.P.Garasiya	8141801403		-
9	I/C PI A.H.T.U			-	-
10	PI Cyber Crime P.Stn	Shri V.K.Patel	8780398228	-	-
	PSI Cyber P.Stn	Shri J.M.Gamit	6352228190	-	-
	PSI Cyber P.Stn	Shri A.C.Chaudhari	9825833832	-	-
	PSI Cyber P.Stn	Shri I.D.Desai	9924778596	-	-
11	CPI Vyara	Shri M.A.Sumara	9426586787	02626-224431	-
12	CPI Ukai	Shri V.U.Padvi	8866690925	02624-221733	-
13	PI Vyara, P.Stn	Shri N.S.Chauhan	9637700077	02626-220033	-
	PI Vyara, P.Stn II	Shri N.M.Ravat	9712711843	02626-220033	
	WPSI Vyara, P.Stn	Shri N.V.Chaudhri	9879599901	-	-
	PSI Vyara, P.Stn	Shri J.P.Mevada	9974331515	-	-
14	PI Songadh, P.Stn	Shri D.S.Gohil	8980042244	02624-222033	-
	PI Songadh, P.Stn II	Shri M.M.Gilatar	8154805888	02624-222033	
	PSI Songadh, P.Stn	Shri P.M.Chaudhari	9426185011	-	-
	PSI Songadh, P.Stn	Shri K.R. Chaudhari	9898496969	-	-
	PSI Songadh, P.Stn	Shri K.R.Patel	9925100309	-	-
15	PSI Dolvan P.Stn	Shri S.P.Sodha	7600258451	02626-295252	-
16	PSI Valod P.Stn	Shri B.B.Pardhane	9099927736	02625-220048	-
17	PSI krapar P.Stn P.Stn	Shri D.D.Raval	7069002100	02626-234222	-
18	PSI Uchchhal P.Stn	Shri T.B.Pandya	9825443147	02628-231112	-
19	PSI Ukai, P.Stn	Shri A.R.Suryavansi	8320377726	02624-233236	-
20	PSI Nizar, P.Stn	Shri P.M.Hathila	9687113322	02628-244233	-
21	Reader PSI to SDPO	Shri P.M.Bariya	9265966722	02626-224193	
22	Reader PSI to SP	Shri. D.R.Prajapati	9558555808	02626220272	-
23	PI Mahila P.Stn	Shri. S.B.Sekh	9825040365	02626-225033	-
24	WPSI Mahila P.Stn	Shri P.A.Parekh	8758265050	02626-225033	
25	PI Traffic Branch	Shri K.D.Mandora	9687855155	-	-
	PSI Traffic Branch	Shri C.S.Patel	9913289297		
26	PSI Perrol forllo scod	Shri N.S.Vasava	9638471988	-	-
27	WPSI MOB/Netram	Shri K.R.Bheda	9727759646	-	-
28	Police Head Quarter Tapi	Miss B.B.Chovtiya	9712939364	02626-220786	-
			9712931367		
29	PSI Head Quarter	Shri. A.R.Chaudhari	9427524855	-	
30	Wireless PSI	WPSI B.J.Gamit	9978325779	-	-
		WPSI V.R. Chaudhari	75748-02399	-	-

## Annexure:-26

Sr	District	code	collector		DDO	DSP	
			Control room	office	office	Control room	office
1	Ahemdabad	૦૭૯	૨૭૫૬૦૫૧૧	૨૭૫૫૧૬૮૧	૨૫૫૦૬૪૮૭	૨૬૮૬૦૮૧	૨૮૬૬૮૧૨
2	Amreli	૦૨૭૯૨	૨૩૦૭૩૫	૨૨૨૩૦૭	૨૨૨૩૧૩	૨૨૩૪૯૮	૨૨૨૩૩૩
3	Anand	૦૨૬૯૨	૨૪૩૨૨૨	૨૬૨૨૭૧	૨૪૧૧૧૦	૨૬૧૦૩૩	૨૬૦૦૨૭
4	Arvalli	૦૨૭૭૫	-	૨૪૭૮૦૦	૨૪૨૩૫૦	-	-
5	Banaskatha	૦૨૭૪૨	૨૫૦૨૨૭	૨૫૭૧૭૧	૨૫૪૦૬૦	૨૫૨૬૦૦	૨૭૫૦૧૫
6	Bharuch	૦૨૬૪૨	૨૪૨૩૦૦	૨૪૦૬૦૦	૨૪૦૬૦૩	૨૬૮૩૦૩	૨૬૮૩૩૩
7	Bhavnagar	૦૨૭૮	૨૪૨૭૭૦૦	૨૪૨૮૮૨૨	૨૪૨૬૮૧૦	૨૪૩૪૯૯	૨૪૨૭૧૬૨
8	Botad	૦૨૮૪૯	-	૨૩૧૩૦૧	૨૩૯૦૬૬	-	-
9	chhotaudepur	૦૨૬૬૯	-	૨૩૩૦૦૩	૨૩૩૦૫૦	-	૨૩૩૦૭૭
10	Dahod	૦૨૬૭૩	૨૨૨૨૬૬	૨૨૧૯૯૯	૨૪૭૦૬૭	૨૨૨૪૦૦	૨૪૦૯૪૪
11	Dang	૦૨૬૩૧	૨૩૦૩૪૭	૨૨૦૨૦૧	૨૨૦૨૫૪	૨૨૦૩૨૨	૨૨૦૨૪૮
12	Devbhumidvrka	૦૨૮૩૩	-	૨૨૩૮૦૪	૨૫૫૩૯૦૧	-	-
13	Gandhinagar	૦૭૯	૨૩૨૫૯૪૫૨	૨૩૨૨૦૬૩૦	૨૩૨૨૨૬૧૮	૨૩૨૧૦૯૧૪	૨૩૨૧૦૯૦૨
14	Gir somnath	૦૨૮૭૬	-	૨૪૩૩૪૪	૨૬૫૧૦૦૧	-	-
15	Jamnagar	૦૨૮૮	૨૫૫૩૪૦૪	૨૫૫૫૮૬૯	૨૫૫૩૯૦૧	૨૫૫૦૨૦૦	૨૫૫૪૨૦૩
16	Junagadh	૦૨૮૫	૨૬૫૧૨૫૧	૨૬૫૦૨૦૨	૨૬૫૧૦૦૧	૨૬૨૦૬૦૩	૨૬૫૫૬૩૩
17	Kheda	૦૨૬૮	૨૫૨૨૧૦	૨૫૫૦૮૫૬	૨૫૫૭૨૬૨	૨૫૬૧૧૮૦૦	૨૨૪૫૦૩
18	kutch	૦૨૮૩૨	૨૫૨૩૪૭	૨૫૦૦૨૦	૨૫૦૦૮૦	૨૫૩૫૯૩	૨૫૦૪૪૪
19	Mahisagar	૦૨૬૭૪	૨૫૦૧૬૩	૨૫૦૬૬૬	૨૫૩૩૭૭	-	-
20	Mahesana	૦૨૭૬૨	૨૨૨૨૨૦	૨૨૨૨૦૦/૧૧	૨૨૨૩૦૧	૨૨૨૧૩૩	૨૨૨૧૨૨/૨૬
21	Narmada	૦૨૬૪૦	૨૨૪૭૧૯	૨૨૨૧૬૧ / ૭૫	૨૨૨૧૬૩	૨૨૨૧૧૫	૨૨૨૩૧૪
22	Navsari	૦૨૬૩૭	૨૫૯૪૦૧	૨૪૪૯૯૯	૨૪૪૨૯૯	૨૪૬૦૭૦	૨૫૦૬૬૭
23	Morbi	૦૨૮૨૨		૨૪૦૭૦૧	૨૪૭૭૦૦૮	-	-
24	Panchmahal	૦૨૬૭૨	૨૪૨૫૩૬	૨૪૨૮૦૦	૨૪૨૨૨૪	૨૪૨૫૦૪	૨૪૨૨૦૦
25	Patan	૦૨૭૬૬	૨૨૫૩૩૧	૨૩૩૩૦૧ / ૦૩	૨૨૩૪૪૦	૨૩૦૫૦૨	૨૩૦૫૦૧
26	Porbandar	૦૨૮૬	૨૨૪૫૮૦૦	૨૨૪૩૮૦૦	૨૨૪૩૮૦૩	૨૨૪૦૯૨૨	૨૨૧૧૨૨૨
27	Rajkot	૦૨૮૧	૨૪૭૧૫૭૪	૨૪૭૩૯૦૦	૨૪૭૭૦૦૮	૨૪૪૫૯૭૫	૨૪૭૭૨૨૦
28	sabarkatha	૦૨૭૭૨	૨૩૦૧૦૦	૨૪૧૦૦૧	૨૪૨૩૫૦	૨૪૧૩૦૩	૨૪૬૩૩૩
29	Surat	૦૨૬૧	૨૪૭૪૮૬૦	૨૪૭૧૧૨૧	૨૪૨૨૧૬૦	૨૪૬૩૯૭૬	૨૪૭૯૧૬૪
30	Surendrnagar	૦૨૭૫૨	૨૪૩૪૦૦	૨૮૨૨૦૦	૨૮૩૭૫૨	૨૩૦૪૫૨	૨૮૨૧૦૦
31	Vadodara	૦૨૬૫	૨૪૨૭૫૯૯૨	૨૪૨૩૧૦૦	૨૪૩૨૦૨૭	૨૪૧૯૭૭૭	૨૪૧૨૨૫૫
32	Valsad	૦૨૬૩૨	૨૪૩૨૩૮	૨૫૩૬૧૩	૨૫૩૧૮૪	૨૫૩૩૩૩	૨૫૪૨૨૨
33	Tapi	૦૨૬૨૬	૨૨૩૩૩૨	૨૨૪૪૬૦	૨૨૨૧૪૧	૨૨૧૫૦૦	૨૨૨૦૭૦

## All Collector Gujarat

Sr	District	code	office	Mobile	Resident	Fax
1	Ahemdabad	૦૭૯	૨૭૫૫૧૬૮૧	૯૯૭૮૪૦૬૨૦૧	૨૨૮૬૩૫૮૮	૨૭૫૫૨૧૪૪
2	Amreli	૦૨૭૯૨	૨૨૩૦૭	૯૯૭૮૪૦૬૨૦૨	૨૨૨૩૦૧	૨૨૨૭૧૦
3	Anand	૦૨૬૯૨	૨૪૨૮૭૧	૯૯૭૮૪૦૬૨૦૩	૨૬૧૦૦૦	૨૪૧૫૭૫
4	Bansakatha	૦૨૭૪૨	૨૫૭૧૭૧	૯૯૭૮૪૦૬૨૦૪	૨૫૭૦૦૭	૨૫૨૭૪૦
5	Bharuch	૦૨૬૪૨	૨૪૦૬૦૦	૯૯૭૮૪૦૬૨૦૫	૨૨૭૭૦૧	૨૪૦૬૦૨
6	Bhavnagar	૦૨૭૮	૨૪૨૮૮૨૨	૯૯૭૮૪૦૬૨૦૬	૨૫૬૮૮૬૬	૨૪૨૭૮૪૧
7	Dahod	૦૨૬૭૩	૨૨૧૯૯૯	૯૯૭૮૪૦૬૨૦૭	૨૧૧૮૮૮	૨૨૨૦૦૫
8	Dang	૦૨૬૩૧	૨૨૦૨૦૧	૯૯૭૮૪૦૬૨૦૮	૨૨૦૨૦૨	૨૨૦૨૯૪
9	Gandhinagar	૦૭૯	૨૩૨૨૦૬૩૦	૯૯૭૮૪૦૬૨૦૯	૨૩૨૫૪૮૮૪	૨૩૨૫૯૦૪૦
10	Jamnagar	૦૨૮૮	૨૫૫૫૮૬૬૯	૯૯૭૮૪૦૬૨૧૦	૨૫૫૪૦૫૯	૨૫૫૫૮૯૯
11	Junagad	૦૨૮૫	૨૬૫૦૨૦૧	૯૯૭૮૪૦૬૨૧૧	૨૬૫૦૨૦૩	૨૬૫૧૩૩૨
12	Kheda	૦૨૬૮	૨૫૫૦૮૫૬	૯૯૭૮૪૦૬૨૧૨	૨૫૫૬૭૦૦	૨૫૬૫૩૪૮
13	kutch	૦૨૮૩૨	૨૫૦૦૨૦	૯૯૭૮૪૦૬૨૧૩	૨૫૦૩૫૦	૨૫૦૪૩૦
14	Mahesana	૦૨૭૬૨	૨૨૨૨૦૦	૯૯૭૮૪૦૬૨૧૪	૨૫૩૩૬૫	૨૨૨૨૦૨
15	Narmada	૦૨૬૪૦	૨૨૨૧૬૧	૯૯૭૮૪૦૬૨૧૬	૨૨૨૧૬૨	૨૨૨૧૭૧
16	Navsari	૦૨૬૩૭	૨૪૪૯૯૯	૯૯૭૮૪૦૬૨૧૫	૨૪૬૦૦૦	૨૮૧૫૪૦
17	Panchmahal	૦૨૬૭૨	૨૪૨૮૦૦	૯૯૭૮૪૦૬૨૧૭	૨૪૨૮૦૦	૨૪૨૮૯૯
18	Patan	૦૨૭૬૬	૨૩૩૩૦૧	૯૯૭૮૪૦૬૨૧૮	૨૩૩૩૦૦	૨૩૩૦૫૫
19	parbandar	૦૨૮૬	૨૨૪૩૮૦૦	૯૯૭૮૪૦૬૨૧૯	૨૨૪૩૮૦૧	૨૨૪૨૫૨૭
20	Rajot	૦૨૮૧	૨૪૭૩૮૦૦	૯૯૭૮૪૦૬૨૨૦	૨૪૭૨૮૦૦	૨૪૫૩૬૨૧
21	sabarkatha	૦૨૭૭૨	૨૪૧૦૦૧	૯૯૭૮૪૦૬૨૨૧	૨૩૦૦૦૧	૨૪૧૬૧૧
22	surat	૦૨૬૧	૨૪૭૧૧૨૧	૯૯૭૮૪૦૬૨૨૨	૨૬૬૯૦૮૦	૨૪૭૨૪૧૯
23	surendrnagar	૦૨૭૫૨	૨૮૨૨૦૦	૯૯૭૮૪૦૬૨૨૩	૨૮૨૨૦૧	૨૮૩૮૬૨
24	vadodara	૦૨૬૫	૨૪૩૪૩૦૧	૯૯૭૮૪૦૬૨૨૪	૨૩૩૩૮૯૯	૨૪૩૧૦૯૩
25	Valsad	૦૨૬૩૨	૨૫૩૬૧૩	૯૯૭૮૪૦૬૨૨૫	૨૫૩૦૬૦	૨૪૩૪૧૭
26	Tapi	૦૨૬૨૬	૨૨૪૪૬૦	૯૯૭૮૪૦૫૩૬૪	૨૨૦૨૨૧	૨૨૧૨૮૧
27	Arvalli	૦૨૭૭૫	૨૪૭૮૦૦	૯૯૭૮૪૦૫૯૩૫	-	૨૪૭૮૦૧
28	Botad	૦૨૮૪૯	૨૩૧૩૦૫	૯૯૭૮૪૦૫૯૩૧	-	-
29	Devbhumidavrka	૦૨૮૩૩	૨૨૩૮૦૪	૯૯૭૮૪૦૫૯૩૩	-	૨૩૨૧૦૨
30	chhotaudepur	૦૨૬૬૯	૨૩૩૦૦૧	૯૯૭૮૪૦૫૯૩૭	૨૩૨૦૦૧	૨૩૩૦૦૨
31	Girsomnath	૦૨૮૭૬	૨૪૩૩૪૪	૯૯૭૮૪૦૫૯૩૪	-	૨૪૩૩૦૦
32	Mahisagar	૦૨૬૭૪	૨૫૦૬૬૬	૯૯૭૮૪૦૫૯૩૬	૨૫૩૫૫૫	૨૫૦૬૫૫
33	Morbi	૦૨૮૨૨	૨૪૦૭૦૧	૯૯૭૮૪૦૫૯૩૨	૨૨૭૭૧૨	૨૪૧૬૦૨

## All DDO Gujarat

Sr	District	code	office	Mobile	Resident	Fax
1	Ahemdabad	૦૭૯	૨૫૫૦૬૪૮૭	૯૯૭૮૪૦૬૨૨૬	૨૩૨૬૦૩૬૩	૨૫૫૧૧૨૮૯
2	Amreli	૦૨૭૯૨	૨૨૨૩૧૩	૯૯૭૮૪૦૬૨૨૭	૨૨૨૪૩૧	૨૨૨૩૭૮
3	Anand	૦૨૬૯૨	૨૪૧૧૧૦	૯૯૭૮૪૦૬૨૨૮	૨૪૫૧૮૪	૨૪૩૮૯૫
4	Bansakatha	૦૨૭૪૨	૨૫૪૦૬૦	૯૯૭૮૪૦૬૨૨૯	૨૫૩૦૨૯	૨૫૨૦૬૩
5	Bharuch	૦૨૬૪૨	૨૪૦૬૦૩	૯૯૭૮૪૦૬૨૩૦	૨૪૫૮૮૦	૨૪૦૯૫૧
6	Bhavnagar	૦૨૭૮	૨૪૨૬૮૧૦	૯૯૭૮૪૦૬૨૩૧	૨૫૬૬૬૫૫	૨૪૨૭૬૭૨
7	Dahod	૦૨૬૭૩	૨૪૭૦૬૬	૯૯૭૮૪૦૬૨૩૨	૨૨૪૦૪૪	૨૪૭૪૩૮
8	Dang	૦૨૬૩૧	૨૨૦૨૫૪	૯૯૭૮૪૦૬૨૩૩	૨૨૨૦૨૩૫	૨૨૦૪૪૪
9	Gandhinagar	૦૭૯	૨૩૨૨૨૬૧૮	૯૯૭૮૪૦૬૨૩૪	૨૩૨૪૩૭૭૯	૨૩૨૨૩૨૬૭
10	Jamnagar	૦૨૮૮	૨૫૫૩૯૦૧	૯૯૭૮૪૦૬૨૩૫	૨૫૫૨૪૦૨	૨૫૫૨૩૯૪
11	Junagad	૦૨૮૫	૨૬૫૧૦૦૧	૯૯૭૮૪૦૬૨૩૬	૨૬૫૧૦૬૨	૨૬૫૧૨૨૨
12	Kheda	૦૨૬૮	૨૫૫૭૨૬૨	૯૯૭૮૪૦૬૨૩૭	૨૫૩૨૮૦૨	૨૫૫૭૮૫૧
13	kutch	૦૨૮૩૨	૨૫૦૦૮૦	૯૯૭૮૪૦૬૨૩૮	૨૫૦૦૫૨	૨૫૦૩૫૫
14	Mahesana	૦૨૭૬૨	૨૨૨૩૦૧/૦૨	૯૯૭૮૪૦૬૨૩૯	૨૨૨૩૦૪	૨૨૧૪૪૭
15	Narmada	૦૨૬૪૦	૨૨૨૧૬૩	૯૯૭૮૪૦૬૨૪૧	૨૨૨૪૧૭	૨૨૨૧૬૪
16	Navsari	૦૨૬૩૭	૨૪૪૨૯૯	૯૯૭૮૪૦૬૨૪૦	૨૩૯૯૫૭	૨૩૦૪૭૫
17	Panchmahal	૦૨૬૭૨	૨૫૩૩૭૭	૯૯૭૮૪૦૬૨૪૨	૨૫૩૩૯૯	૨૫૩૩૯૯
18	Patan	૦૨૭૬૬	૨૩૨૯૨૬	૯૯૭૮૪૦૬૨૪૩	૨૩૧૪૧૬	૨૩૪૨૯૪
19	parbandar	૦૨૮૬	૨૨૪૩૮૦૩	૯૯૭૮૪૦૬૨૪૪	૨૨૧૩૨૨૪	૨૨૧૧૮૦૬
20	Rajot	૦૨૮૧	૨૪૭૭૦૦૮	૯૯૭૮૪૦૬૨૪૫	૨૪૭૭૧૪૪	૨૪૭૯૧૨૮
21	sabarkatha	૦૨૭૭૨	૨૪૨૩૫૦	૯૯૭૮૪૦૬૨૪૬	૨૨૨૫૩૧	૨૪૦૮૭૨
22	surat	૦૨૬૧	૨૨૨૧૬૦	૯૯૭૮૪૦૬૨૪૭	૨૬૬૭૪૫૩	૨૪૧૨૫૪૩
23	surendrnagar	૦૨૭૫૨	૨૮૩૭૫૨	૯૯૭૮૪૦૬૨૪૮	૨૮૩૫૦૧	૨૮૬૪૦૨
24	vadodara	૦૨૬૫	૨૪૩૨૦૨૭	૯૯૭૮૪૦૬૨૪૯	૨૩૩૮૪૭૬	૨૪૩૧૦૭૮
25	Valsad	૦૨૬૩૨	૨૫૩૧૮૪	૯૯૭૮૪૦૬૨૫૦	૨૫૩૦૮૬	૨૪૮૩૧૫
26	Tapi	૦૨૬૨૬	૨૨૨૧૪૧	૯૯૭૮૪૦૫૨૬૩	૨૨૨૦૨૨	૨૨૨૧૪૨
27	Arvalli	૦૨૭૭૫	૨૪૨૩૫૦	૯૯૭૮૪૦૬૨૪૬	૨૪૨૩૫૧	૨૪૦૮૭૨
28	Botad	૦૨૮૪૯	૨૪૨૬૮૧૦	૯૯૭૮૪૦૬૨૩૧	૨૫૬૫૯૫૫	૨૪૨૮૮૮૬૪
29	Devbhumidavrka	૦૨૮૩૩	૨૫૫૩૯૦૧	૯૯૭૮૪૦૬૨૩૫	૨૫૫૨૪૦૨	૨૫૫૨૩૯૪
30	chhotaudepur	૦૨૬૬૯	૨૪૩૨૦૨૭	૯૯૭૮૪૦૬૨૪૯	૨૩૩૨૮૪૭૬	૨૪૩૧૦૩૬
31	Girsomnath	૦૨૮૭૬	૨૬૫૧૦૦૧	૯૯૭૮૪૦૬૨૩૬	૨૬૫૧૨૦૨	૨૬૫૧૨૨૨
32	Mahisagar	૦૨૬૭૪	૨૫૩૩૭૭	૯૯૭૮૪૦૬૨૪૨	૨૫૩૩૯૯	૨૫૩૩૫૦
33	Morbi	૦૨૮૨૨	૨૪૭૭૦૦૮	૯૯૭૮૪૦૬૨૪૫	૨૪૭૭૧૪૪	૨૪૭૯૧૨૮

**Annexure:- 27****District Level All officials contact List**

<b>Sr</b>	<b>Officer Designation</b>	<b>Officer Name</b>	<b>Number</b>	<b>Office number</b>	<b>Email ID</b>
1	Collector & DM Tapi	Dr Vipin Garg IAS	9978405364	02626-224460 Fax- 221281	collector-tapi@gujarat.gov.in
2	DDO Tapi	Shri V N Shah IAS	9978405263	02626-222141 Fax- 222142	ddo-tapi@gujarat.gov.in
3	SP	Shri Rahul Patel IPS	9978405488	02626-222700 Fax- 220100	sp-tapi@gujarat.gov.in
4	Deputy Conservator of Forests Tapi-Vyara	Shri. Punit Nair	8758560627	02626-222019 Fax- 222339	dcfvyara1@gmail.com
5	Resident Additional Collector Tapi	Shri R R Borad	9978405415	02626-224450 Fax- 221281	addcollector-tapi@gujarat.gov.in
6	Administrator, S.A.J.Sub- Division Scheme Songadh	Shri Ram Nivas Bugaliya	9978405646 9925007405	02624-222148	pa-tdd-songadh@gujarat.gov.in
7	Director, DRDA Tapi	Smt Khyati Patel	9978370476	02626-223232	drda.tap@gmail.com
8	District Supply Officer	Shri H J Solanki i/c	7575804287	02626-224401	Inc-dso-tapi@gujarat.gov.in
9	Deputy Collector-1 collector office Tapi	Shri H J Solanki i/c	7575804287		probranch.collectortapi@gmail.com
10	Deputy District Election Officer Tapi	Shri B H Zala	9409390773		deotapioffice@gmail.com
11	Deputy Collector and SDM Vyara	Shri.Pritesh Patel	9978405053	02626-220551	sdm-tapi@gujarat.gov.in
12	Deputy Collector and SDM	Shri Jay kumar Raval	8320963512	02628-244009	prantnizar172@gmail.com

	Nizar		7567001273	Fax-244006	
13	Deputy District Development Officer, Tapi (Mahekam/Revenue)	Shri sandip Gayakwad	7984559887	02626-222141 Fax- 222142	ddo-tapi@gujarat.gov.in
14	Deputy District Development Officer, Tapi (Panchayat/Develpoment)	Shri sandip Gayakwad	7984559887	02626-222141 Fax- 222142	ddo-tapi@gujarat.gov.in
15	Deputy Collector and Resettlement and Land Acquisition Officer, Ukai Yojana Songarh	Shri.Pritesh Patel	9978405053	02624-222054	
16	District Planning Officer, Tapi	Shri K V Patel	9428383112	02626-222669	dpotapi37@gmail.com
17	Regional Commissioner, Gujarat Pollution Control Board Navsari	Shri H M Gavit	9824110053 9825155421		ro-gpcb-navs@gujarat.gov.in
18	Chief District Health Officer, Tapi-Vyara	Dr. Paul vasava	98799544425	02626-200376	cdho.health.tapi@gmail.com
19	Assistant Vanijay Vera Commissioner, Vyara	Shri N J Mahida	9979496306	02626-221479	ctdvvara69@gmail.com
20	Assistant Commissioner, Tribal Development Tapi (Vigilance)	Shri R A KanuJa	9726005193	02626220234	votapi26@gmail.com
21	District Social welfer Officer District Panchyat Tapi	i/c Kartik khant	9825571487	02626-220622	Socialwelfare1221@gmail.com
22	District Education Officer, Tapi-Vyara	Ms. Dharaben Patel	9512894291	02626-221624	tapideo@gmail.com
23	District Primary Education officer, Tapi	Kum. V.R.vasava	8141241444	02626-222057	dpeo.tapi@gmail.com tapidpc@gmail.com
24	Deputy Conservator of Forests (sa.V) Office Zilla Seva Sadan- 2 B-Block 2nd Floor Beside Chopati Athwallines Surat	Shri Sachin Gupta	7597850018	0261-2733831	dcfsurat@gmail.com

25	Assistant Director of Information, TAPI	Shri Ninesh bhabhor	9586221935	02626-222980	tapiadi932@gmail.com
26	Assistant Regional Transport Officer, Tapi-Vyara	Shri S K Gamit	9510945673 9726847442	02626-22345	rtovyara26@gmail.com
27	CT Survey Superintendent, Tapi-Vyara	Shri B L Birhade	9879163479	02626-223144	css-lr-tpi@gujarat.gov.in
28	District Inspector, Land and Record Office Vyara	Shri B L Birhade	9879163479	2626-225001	dilr-tapi@gujarat.gov.in
29	District Registrar, Cooperative Societies Tapi-Vyara	Shri P B Kankotiya	7016809883	02626-220394	drcstapi@gmail.com
30	Executive Engineer, R&B Division (State) Tapi- Vyara	Shri D A Patel i/c	9979353215	02626-220419	rnbtapi@yahoo.co.in
31	Executive Engineer Public Health Civil Works G.P.P. and drain board Tapi-vyara	Shri Ankit Garasiya	9978440706, 9978440995	02626-220338	eephvyara1@gmail.com
32	Executive Engineer U.D.K.No.S.V.No.2 Valod	Shri J C chaudhari	9099954106	02625-222052	exen.valod@gmail.com
33	Executive Engineer, Ukai Division No.1	Mr. H.N. Chaudhari	9727744362	02624-233289	eeukaidn1@gmail.com
34	Executive Engineer, Irrigation District Panchayat Tapi	Shri. S. T. Chaudhari	<b>7984981220</b>	02626-220142	exe.panirri.tap@gmail.com
35	Executive Engineer, DGVCL. Tapi-vyara	Shri M S Patel	9879200771 9925211432,	02626-220165	do.vyara@gebmail.com
36	Executive Engineer, R&B Division (Panchyat) Tapi-	Shri D A Patel	9979353215	02626-220058	exepan_rnb_tapi@yahoo.in
37	Executive Engineer, ver-2 Division, Tapi-Vyara	Shri K R Patel	9998703942	02626-222090	eeeveryara@gmail.com
38	Unit Manager, District Water and Sanitation Unit (WASMO), Tapi	Shri Y R Garasiya	9825793387		tapi.dwsc@gmail.com

39	Executive Engineer, JETCO Vyara	Mr. M. N. Patel (in charge)	9925211129		eetrvyara.getco@gebmail.com
40	Divisional Director ST Divisional Office, Adajan Bus Port, Surat	Shri P V Gurjar	6359919040	0261-2551431	dcstrgsrtc@gmail.com
41	Assistant Director, Fisheries Ukai, Songadh	Shri Jignesh Gohel	9825452992	02624-233556	fisheriesdepartment.ukai@gmail.com
42	Deputy Director Scheduled Castes Welfare, Tapi	Ms. MB Patel	9426753204	02626-220869	bcwo.tapi@yahoo.com
43	Geologist, Department of Mines and Minerals Tapi	Ms Sunita Arora	9898494703	02626-223370	geologist-tapi@gujarat.gov.in
44	Assistant Director, Food and Drugs Office Tapi-Vyara	Dr. M N Patel	9426639622	02626-222093	fdcatapi@gmail.com
45	District Assistant Inspector, Local Fund Office, Tapi	Shri N B Mahala	9898099500	02626-222716	asstexaminer-vyara@gujarat.gov.in
46	District Agriculture Officer, District Panchayat Tapi	Shri Chenat C. Garasiya	9909971329	02626-220365	agri.tapi@gmail.com
47	District Youth Development Officer, Tapi	Smt Amruta R Gamit	9978321249	02626-221620	dydotapi23@gmail.com
48	Assistant Director of Animal Husbandry, G.M.V.G. Vyara	Dr S N Patel	9825803135	02626-220217	ipdbvyara2015@gmail.com
49	Deputy Director of Animal Husbandry, District Panchayat Tapi-Vyara	Dr S R Gavit	9427154641	02626-220679	a.h.d.tapi@gmail.com
50	District Social Protection Officer, Tapi-Vyara	Shri S V Rathod	9429565996	02626-222210	dsdotapi@gmail.com
51	Program Officer, ICDS Tapi	kum Tanvi Patel i/c		02626-224577	dpc.icds.tapi1@gmail.com
52	General Manager, District Industries Center Tapi-Vyara	Shri D D Solanki	9974171249	02626-221840	gm-dic-tap@gujarat.gov.in



53	Joint Director, Industrial Safety & Health Surat B Block 6th Floor, District Sevasadan Athavalines Surat	Shri B A Chaudhan	9601269125	0261-2653501	Jtdish-sur@gujarat.gov.in
54	Chief Officer, Municipality Vyara	Kum. Vandana B Dobariya	9429855725	02626-222022	vyaranagar@yahoo.co.in
55	Chief Officer, Municipality Songadh	Shri Dharmesh J Gohil	8849070307 9998931008	02624-221689	npbranch_son@yahoo.co.in
56	Civil Surgeon, & CDMO General Hospital Vyara	Dr Naitik Chaudhari	9727742501	02626-220053	ghvyara@gmail.com
57	Mamaltdar (Disaster)	Shri Mayur Prajapati (ic)	9913199062		
58	District Statistics Officer, D.P.Tapi	Shri Rohit Barot	9558815028	02626-220622	dso-ddo-gnr@gujarat.gov.in
59	Superintendent, Nashabandhi & Abakari Tapi	Shri Samir P kapuriya	9173816620	02626-222023	pnevyara@gmail.com
60	Government Labor Officer, (Agriculture/Industry) Tapi	Shri D N Shah	9328681615		gloagritapi26@gmail.com
61	District Employment Officer, Tapi-Vyara	Shri V S Bhoje	9428160207	02626220289	deetapi@yahoo.in
62	District Social welfare officer (Viksit Jati Tapi)	Shri J N Chaudhan	8849843104	02626-220324	dswo.tapi@yahoo.com
63	District Treasury Officer, Tapi-Vyara	Shri Nilesh Gavit	7567023605	02626-220292 Fax- 220233	treasury-tapi@gujarat.gov.in
64	Deputy Director of Horticulture, Tapi-Vyara	Shri T M Gamit i/c	9925144579	02626-221423	ddhtapi@gmail.com
65	Principal, ITI College Indu, Vyara	Smt S A Chaudhari	9909208666	02626-299315	iti-vyara-sur@gujarat.gov.in

66	Superintendent engineer, Ukai Circle (Civil)	Shri A R Patel	9825198564	02624-233218	seuccukai52@gmail.com
67	Deputy Director of Animal husbandry, Gha.P.Su.Yojna Tapi	Shri H A Thakre	9427383861	02626-222167	tapiicdp@gmail.com
68	District Ayurvedic Officer, Tapi-Vyara	Dr Jayshree Chaudhari	8780620264		daotapivyara@gmail.com
69	Lead Bank Manager, Tapi-Vyara	Shri Rasik Jethava	9426546264		ldm.tapi@bankofbaroda.com
70	Deputy Director of Agriculture, Farmers Training Center Tapi-Vyara	Shri A K Patel	<b>8141988681</b>		atmatapi@yahoo.com, ftcvyara@gmail.com
71	District Child Protection Officer, Tapi-Vyara	Shri Vijay Rathod	9726006327	02626-222203	dcpu-gscps-tap@gujarat.gov.in
72	District Women and Child Officer, Tapi-Vyara	Shri S S Patel	9157022963	02626-222220	dpocumpotapi@gmail.com , wco-wcd-tapi@gujarat.gov.in
73	Accounts Officer, District Panchayat Tapi	Shri R R Vasava	9925048913	02626-221808	Ao-dp-tapi@gujarat.gov.in
74	Project Manager, Gujarat Building and Other Construction Labor Welfare Board Block No.12 Tapi-Vyara	Shri Divyesh Parmar	9924026459	02626-221070	bocwtapi26@gamil.com
75	District Informatics Officer, Tapi	smt Anjana Patel	9724686753		gujtap@nic.in,
76	District Project Officer-GSDMA Disaster manag.tapi	Mr K.K.Gamit	9825920032	02626-223332	Dpo.gsdma.tapi@gmail.com
77	District Mineral Foundation Tapi	Shri T J Saiyed	9998494703	02626-223372	dmf-tap@gujarat.gov.in, dmf.tapi@gmail.com
78	District Sports Development Officer	Shri C M Patel	9511123257		tapi.sport@gmail.com
79	Regional Manager, GIDC	Shri D M Parmar	9879110112		

80	Divisional Engineer BSNL Vyara	Smt Sapana Gangvar	9429408330		
81	Executive Engineer, Drainage Department, Surat	Joyel bhai	9978393637		ex.dd2surat@gmail.com
82	Superintendent of Post, Bardoli	Shri Arvnid	9429198085		dobardoli@gmail.com, dobardoli.gj@indiapost.gov.in
83	Deputy Executive Engineer, National Highway Sub Division, Surat	Smt Dharma bhatt	997985548		nhdsurat715@gmail.com
84	Sr. Section Engineer, Western Railway Vyara		9898030277		managersah9898@gmail.com

***District Emergency Operation center (Disaster management Branch)***  
***Collector office, Tapi-Vyara***

<b>Sr No</b>	<b>Degisnation</b>	<b>Name</b>	<b>Mobile</b>
1	Resident Additional Collector Tapi	Shri R R Borad	9978405415
2	Mamaltdar Disaster	Shri Mayur Praajapati i/c	9913199062
3	DPO-GSDMA	Mr K.K.Gamit	9825920032
4	Dy.Mamaltdar	Shri Snehal Chaudhari	7621090970
5	Clerk	Mr Rohit Chaudhari	8469386997
6	Computer Op.	Mr Guarav Chaudhari	9898158293

### **Mamaltdar of All Taluka**

<b>Sr</b>	<b>Taluka</b>	<b>Name of Mamaltdar</b>	<b>Office Mobile</b>	<b>Mobile</b>
1	Valod	Smt Tejal C Patel	02625 - 220021	7567007295 8805524600
2	Vyara	Shri Himansu Solanki	02626 - 220012	7575804287
3	Songadh	Smt Nalini Chapaneriya	02624 - 222023	7567007278 9825158323
4	Uchchhal	Shri S J Tailor	02628 - 231103	9925525425
5	Nizar	Shri G R Vasava	02628 - 244223	9427103779
6	Dolvan	Shri Navin Chaurya	02626 - 251012	9925055710
7	Kukarmunda	Shri V C Patel	02628 – 223324	9574064709

### **All Taluka development Officers**

<b>Sr</b>	<b>Taluko</b>	<b>TDO Name</b>	<b>Office No</b>	<b>Mobile No</b>
1	Vyara	Smt Alpana Nayar	02626 – 220006	8849771183
2	Songadh	Smt D D Ganvit	02624 – 222025	7567018481
3	Valod	Shri D D Patel	02625 – 220026	9426347947
4	Uchchhal	Shri Anand Bhai	02628 – 231108	7069032790
5	Nizar	Shri Rahul Patel	02628 – 244225	9033805788
6	Kukarmunda	Shri S S Patel	02628 – 223225	9924099781
7	Dolvan	Shri V N Dhodiya	02626 – 251007	9737045363

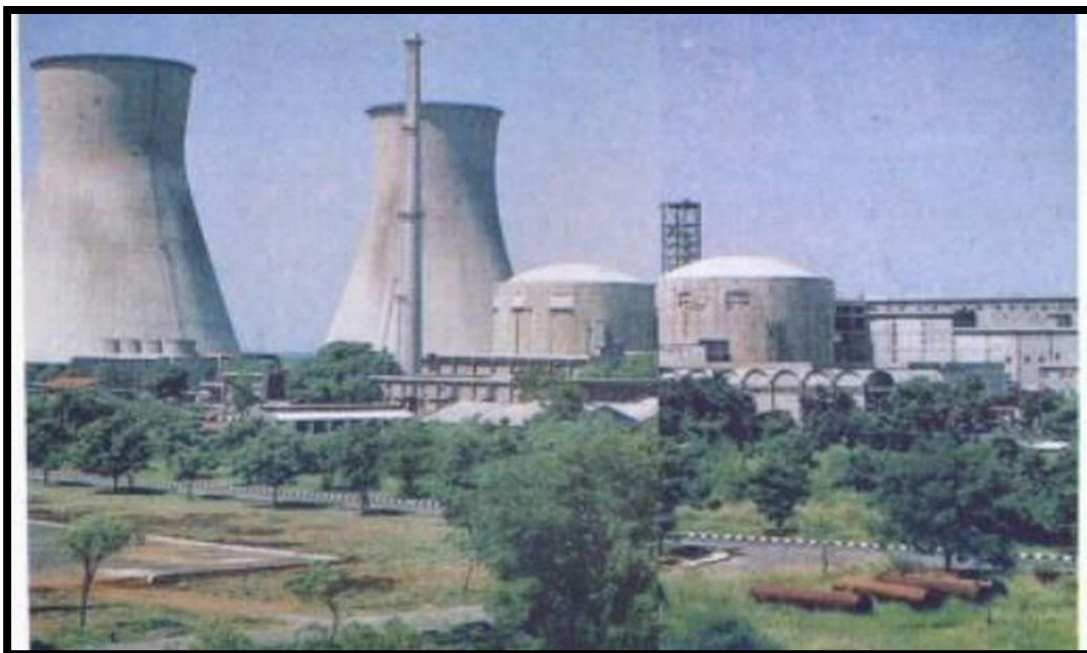
**Annexure :- 28****Fire Department**

<b>Sr</b>	<b>Fire station</b>	<b>Phone number</b>
1	<b>Vyara Nagarpalika Fire station</b>	02626-220101 Station Fire Officer-9825604003 Leading Fire man-9898345101
2	<b>Songadh Nagarpalika Fire station</b>	02624- 221073, 221689 Fire Officer-9978992064
3	<b>JK PaperMill fire station</b>	02624-305426,305427, 220278
4	<b>Tharmal power station Fire</b>	08980017636
5	<b>Kakrapar Fire station</b>	02626-231500, 242018, ઓફીસ:230348
6	<b>Surat SMC Fire station</b>	0261-2414195, 2414196, 2414139
7	<b>Navapur MH Fire station</b>	02564-210041, , 210333
8	<b>Nadurbar MH Fire station</b>	02564- 222201

**GAS/chemical/oil Incident Related emergency contact number**

<b>Sr</b>	<b>Campny</b>	<b>Number</b>
1	IOCL	0261-6590115, 653005
2	Control Room Dep, IOCL	0261 – 6590119 / 9699861212
3	BPCL	0261-2841358, 6540792
4	ONGC	0261- 2875800, 2876000, 2875601
5	HPC	0261- 2875812 , 8980006869

**DISTRICT DISASTER MANAGEMENT PLAN**  
**OF**  
**TAPI DISTRICT**  
**FOR**  
**OFF-SITE EMERGENCY FROM**  
**KAKRAPAR GUJARAT SITE**  
**Year-2024**



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## **Chapter-1 Introduction**

### **1.1 NPP in the district**

The Kakrapar Gujarat Site is located 86 km (by road) east of Surat at Latitude 21° 14" N and, Longitude 73° 22" E. The station is 29 kms downstream of Ukai dam on the Tapi River and about 4 Km from Kakrapar weir on river Tapi along the left bank canal. The nearest railway Station Vyara is 16 km away and this Railway Station is on the Surat-Bhusaval broad gauge section of Western Railway.

Objectives of the nuclear safety are protection of the plant personnel, public and the environment from radiological hazards. This is achieved during normal operation as well as under accident conditions by incorporating and maintaining effective defenses against such hazards by adopting the concept of defense-in-depth. This concept implies a series of consecutive physical barriers in the path of release of ionizing radiation and radioactive substances into the environment. This is achieved by redundancy in equipment and control, other engineering and managerial measures for protecting these barriers and also maintaining their effectiveness. In addition, there are engineered safety features such as Containment Spray Cooling System, Secondary Containment Recirculation and purge (SCRp) system, Primary Containment Controlled Discharge (PCCD) system, etc. to mitigate the consequences of an accident.

However, in case of Radiological Emergency (Off-site Emergency), following plan is made to mitigate the consequences of an accident by executing the different protective measures. Already DDMP is made for different natural calamities and infrastructure, resources; facilities etc. available for them will also be used religiously for Radiological emergency if arises in Kakrapar Gujarat site. But for handling radiological emergency few of actions will be somewhat different than handling natural contingencies.



## Chapter- 2 Demographic data

### 2.1 Demographic Characteristics

Emergency Planning Zone (18 Km radius) where 103 villages fall in Tapi District.

The area around the site is rich in cultivable land where Sugar-cane, Jowar, Paddy, Groundnut, Toor dal, Cotton and Green fodder are grown. The cultivation is carried throughout the year as considerable amount of irrigation facilities are available due to Kakrapar/Ukai canal water distribution system. The area around site falls under Kakrapar-Ukai Irrigation Command Area Development Program of the State Government.

The area around the site is having cattle population with co-operative system for milk collection and processing. Within the 18.0 km. distance there are milk collection centres and a processing unit. The average collection of milk per day within the 18.0 km area is of the order of 40 to 60 kilo-litres.

List of nearest natural and manmade feature such as rivers, lakes, dams, railway station; State and National Highway are as follows:

Sr No	Details	Types of sources	Location
1	Tapi River	Water	Near bedkuva dur
2	Ukai Dam	Water	Ukai Ta-songadh
3	Kakarapar Dam	Water	Kakarapar
4	Left bank canal	Water	Kakarapar
5	Right bank canal	Water	Kakarapar
6	Water tank Nagarpalika Vyara	Water	Panwadi Vyara
7	Helipad	Helicopter	Madav Ta-vyara
8	Airport	Air facility	Surat
9	Rail way station	Rail facility	Vyara
10	National Highway 53	Rode facility	Near Tadkuva Vyara

List of the nearby like Factories, oil/Gas pipeline, defense installation, Airport and other vital installation are as follows:

Sr No	Details	Type	Place
1	Sumul Dairy Bajipura Sumul cetal factory	Dairy & Factory	Bajipura/ Ta-valod
2	J.K.Paper mill	Paper mill	Ukai/ Ta-songadh
3	Thermal Power station	Power station	Ukai /Ta-songadh
4	Hydro power station	Power station	Ukai / Ta-songadh

## **Chapter-3 Emergency Classification**

### **3.1 Types of Emergencies**

Radiation Emergencies are classified based on the nature and severity of the incident. The emergency situation of nuclear facilities is classified as:

**Emergency Alert**

**Plant Emergency**

**Site Emergency and**

**Off-site Emergency**

For Plant Emergency, the radiological consequences are expected to remain confined to the plant and the affected areas within the plant boundary.

In case of site emergency, the consequences are likely to extend beyond the plant but remain confined to the site boundary (exclusion zone).

In case of off-site emergency, areas in public domain beyond the exclusion zone are likely to be affected in addition to site boundary.

Declaration of an emergency in any of these emergency classes should initiate a response that is considerably beyond normal operations. Each class initiates distinctly different level of response as indicated below.

Emergency Alert	Plant Emergency	Site Emergency	Off Site Emergency
Immediate actions to analyze the plant condition and mitigate the consequences			
	Immediate actions to protect those on-site		
		Prepare to take Off-Site protective action	
			Immediate protective actions in public domain

### **3.2 Off-Site Emergency:**

An Off-Site Emergency occurs when the radiological consequences of an emergency situation originating from NPP are likely to extend beyond the site boundary (exclusion zone) and into the public domain.

So, it's the responsibility of District Administration to handle and execute the different protective actions in case of Off-site emergency. The technical input during Off-site emergency will be given by management of Kakrapar Gujarat site.

## Chapter-4 Off-Site Emergency Organization

### 4.1 Introduction:

As per organization of DDMA, District collector is Incident commander under whom all district officers will shall carryout their duties in emergency (please refer DDMP Part -2 page 30). In Off-site Emergency, same organization shall be used and if needed members/ officers from different organist ions will be co-opted to mitigate the consequences. As per terminology of the NDMA, The Collector & District Magistrate, Surat and the Collector & District Tapi are designated as Off-Site Emergency Director (OED).

There will be following two locations from where whole Off-site emergency will be handled and executed.

Emergency Control Centre	Location
Incident Command Centre/ Emergency Operation Centre (EOC)	Collector Officer/ District Disaster Management Cell
Off-site Emergency Control Centre (OECC)	KAPS Township Hospital

After declaration of Off-Site Emergency, the DDMA (Off-site emergency committee formed at the district organization) shall function from the Emergency Operation Centre (EOC) and the Offsite emergency committee (OEC) formed at the facility responsible for giving technical advice to the DDMA shall function from OECC at Anumala Township and take appropriate protective action to handle Off-Site emergency.

### 4.2 Off-Site Emergency Framework:

Handling Off-site emergency situation in public domain becomes the responsibility of the District Disaster Management Committee (DDMC) headed by the Collector & District Magistrate of Tapi & Surat who is the Responsible Officer (RO)/Incident Commander (IC) and having officials of the district organization as the members. DDMC will function from the District Disaster Management Control Centre/Emergency Operation Centre (EOC).

The Off-Site radiological conditions assessment group headed by Site Director who is the Site Emergency Director of Kakrapar Gujarat Site will provide the necessary technical guidance to RO/IC in handling the Off-Site Emergency situation during the Early Phase. The official will be supported by Crisis Management Group, Department of Atomic Energy (CMG-DAE) which is the nodal agency responsible to provide technical support and expert guidance for handling any nuclear or radiological emergencies in the country in the public domain. On situation developing to an Intermediate or Recovery Phase the RO/IC will be rendered technical guidance for effective handling of the emergency situation by Director (or Associate Director), Health Safety and Environment Group, BARC, who is designated as the Emergency Response Director (ERD).

The organization and details of members of District Disaster Management Committee (DDMC) is already mentioned in DDMP

The Off-Site Emergency response framework is given in **Figure-1**.

The Framework for management of nuclear emergency at National, State and Local Level is given in **figure-2**.

#### 4.3 Responsibilities of DDMC:

Providing Off-Site emergency response in the public domain

Providing assistance to Department of Atomic Energy personnel for carrying out environmental monitoring work.

Coordinating the implementation of the following protective measures as and when necessary: -

- a) Announcements on Public Address System regarding emergency and for issuing guidelines to public.
- b) Enforcement of access control (restriction of traffic) to affected area.
- c) Sheltering
- d) Distribution of stable iodine and medical care.
- e) Evacuation.
- f) Ensuring blockage of contaminated articles like crops, vegetables, milk, fish and other farm & milk products if necessary.

Arranging for the security and safety of the public and their property in the contaminated areas during the period of their absence following evacuation.

Liaison with agencies like military, civil defense, police, public health, news media for necessary assistance in handling the emergency situation.

Decontamination of affected persons, affected areas and buildings.

As such in DDMP Part-2, duties of each and every key official (as per handling natural calamities are listed in details, so the resources and infrastructure mentioned in the DDMP will be utilized to handle the radiation emergency.

#### 4.4 Emergency Response Operation Group:

This group is headed by Sub-Divisional Magistrate (SDM), Vyara/ Mandvi/Bardoli and provides operational input into the decision-making process. It implements the decisions taken by KOERCC. It issues directives to the representatives of the various departments, other agencies and organizations. It maintains continuous contact and liaison with these bodies. It is thus responsible for carrying out all the protective measures in the field.

Sr. No.	Individual/Group	Responsibility
1	Sub-Divisional Magistrate, Vyara/Mandvi/Bardoli	Overall Coordinator and Convener of the group
2	Project Officer cum Taluka Development Officer (PO cum TDO), Vyara/Mandvi	Assisting SDM for coordinating protective measures
3	Superintending Engineer, Kakrapar & Ukai, Canal Division	To ensure availability of cooling water and control of irrigation system.
4	Superintendent of Police, Surat (Rural) & Tapi	<ul style="list-style-type: none"><li>• Warning and advice to the public</li><li>• Security</li><li>• Law &amp; Order</li></ul>

Sr. No.	Individual/Group	Responsibility
5	Officer Commanding, Home Guards & Chief Warden Officer, Vyara	To provide assistance to Superintendent of Police in carrying out rescue operation or any other job.
6	Chief District Health Officer, Surat/ Tapi	To keep the District Hospitals in readiness and maintaining public health.
7	District Health Officer, Surat/Tapi	Distribution of stable iodine, Medical care & public health. Maintaining adequate stock of Iodine tablets at CHCs/ PHCs.
8	Divisional Controller, Gujarat State Roadways & Transport Corporation(GSRTC), Surat	Transport provision for Evacuation
9	District Supply Officer, Surat/ Tapi	To provide food and essential supplies to evacuee(s) at the Rallying Post
10	District Coordinator, IOC Surat	To ensure adequate supplies of petrol, Diesel and other lubricant oils etc.
11	Regional Transport Officer (RTO), Surat/ Assistant RTO, Tapi	Mobilizations of private vehicles
12	Deputy Director of Information, Surat	Liaison with All India Radio & Prasar Bharati for broadcasting public announcement
13	Chief Fire Officer, Surat Municipal Corporation, Surat	To assist/ arrange fire protection and rescue operation
14	General Manager, BSNL	To ensure healthiness of communication
15	Executive Engineer, DGVCL, Vyara	To ensure availability of power

#### 4.5 Ingestion Monitoring & Control Group:

This group will ensure sampling of milk, grass, goat thyroid, crop, ground and surface water and get them analyzed to assess the extent of contamination levels and give input to Advisory Group.

Sr. No.	Individual/Group	Responsibility
1	Chief District Health Officer, Surat/ Tapi	Convener of the group
2	Deputy Conservator of Forest, Vyara	<ul style="list-style-type: none"> <li>To provide assistance in monitoring of soil contamination.</li> <li>Preventing grazing of cattle in contaminated pastures.</li> </ul>
3	<ul style="list-style-type: none"> <li>District Agriculture Officer, Surat/Tapi</li> <li>Joint Director (Agriculture) Surat.</li> </ul>	To provide assistance in monitoring standing crops and advice with respect to their blockage.
4	<ul style="list-style-type: none"> <li>District Animal Husbandry Officer, Surat/Tapi.</li> </ul>	To provide assistance in monitoring

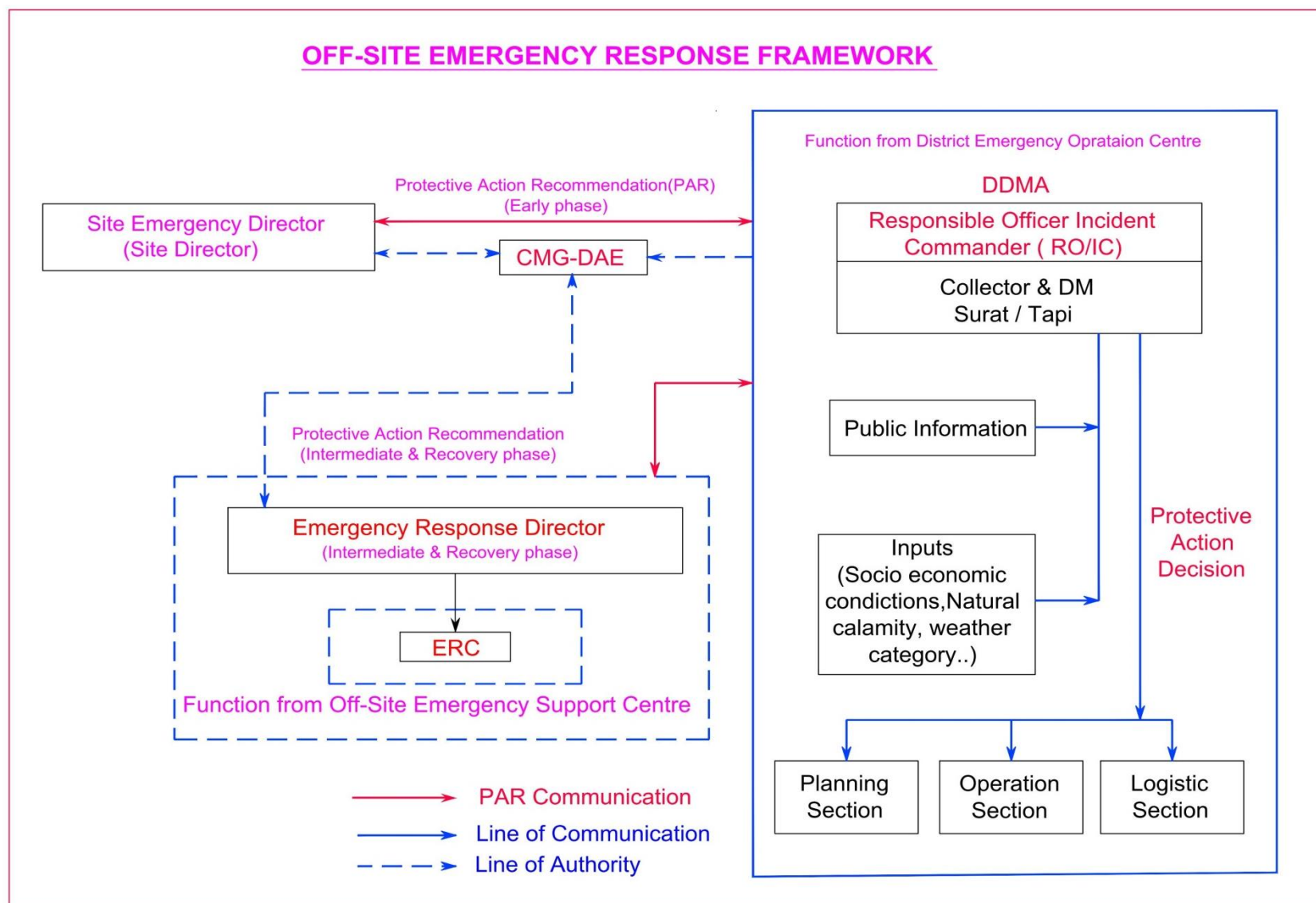
Sr. No.	Individual/Group	Responsibility
	<ul style="list-style-type: none"> <li>Deputy Director (Animal Husbandry), Surat.</li> <li>Veterinary Officer &amp; Poultry Development Officer, Vyara</li> </ul>	poultry products & rescuing the cattle.
5	Assistant Director of Fisheries, Surat	To provide assistance in monitoring marine products and advice on fishing activities
6	Head, Environmental Survey Lab, Kakrapar Gujarat Site	Assist in ingestion monitoring and provide relevant information to control the same.

#### 4.6 Information Group:

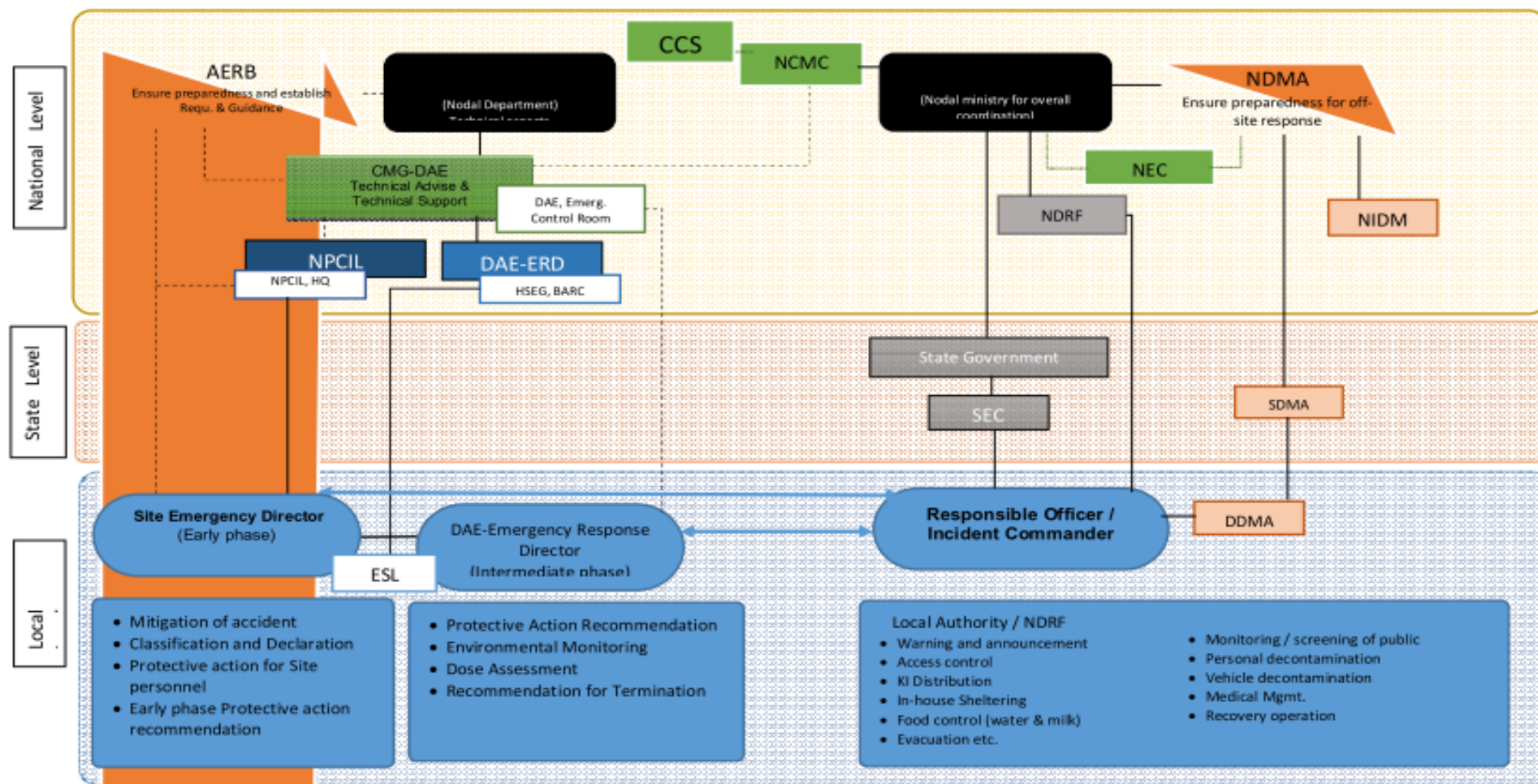
The information group shall keep liaison with state level information centre and to provide interface with media (Press, Radio & TV) and inquiries of public & official sources.

- |     |  |            |
|-----|--|------------|
| (1) | Deputy Director of Information, Surat          | - Convener |
| (2) | Information Centre Liaison Officer, Surat      | - Member   |
| (3) | Information Centre Liaison Officer, Tapi       | - Member   |
| (4) | Training Superintendent, Kakrapar Gujarat Site | - Member   |
| (5) | Head (HR), Kakrapar Gujarat Site               | - Member   |

**Figure: 1 Off-site Emergency Response Network (Kakrapar DAE Centre)**



**Figure:2 Framework for management of nuclear emergency at national, state and local level**



This represents merely the institutional pathways for coordination, decision-making and communication for management nuclear emergency and does not imply any chain of command.



## **Chapter- 5 Emergency Zoning**

### **5.1 Emergency Planning Zone (EPZ)**

For the purpose of planning Off-Site Emergency and for effective implementation of protective actions, the area around the site is divided into following zones called Emergency Planning Zone (EPZ) based on quantum of release and atmospheric parameters:

#### **Exclusion Zone**

Exclusion Zone is an area extending up to a specified distance around the plant, where no public habitation is permitted. This zone is physically isolated from outside areas by plant fencing and is under the control of the plant management except for small portion of National Highway passing through it.

#### **Precautionary Action Zone (PAZ),**

Precautionary Action Zone (PAZ), for which arrangements should be made with the goal of taking precautionary urgent protective actions, before a release of radioactive material occurs or shortly after a release of radioactive material begins, on the basis of conditions at the facility (such as the emergency classification) in order to reduce substantially the risk of severe deterministic health effects. PAZ can extend up to 5 km.

#### **Urgent Protective Action Planning Zone (UPZ)**

Urgent Protective Action Planning Zone (UPZ), for which arrangements should be made for urgent protective action to be taken promptly, in order to avert doses in accordance with the prescribed level. UPZ can extend up to 18 km.

#### **Extended Planning Distance (EPD)**

Distance around a nuclear power plant within which arrangements are made to conduct early of deposition to determine areas warranting (1) evacuation within a day following a release or (2) relocation within a week to a month following a release.

#### **Ingestion and Commodities Planning Distance (ICPD)**

For Planning, the ICPD up to 30 Km is established around Kakrapar Gujarat Site for temporary control of food stuffs until further environmental assessments are performed. The ICPD distance will be adjusted as per the actual conditions during the emergency situation.

The protective actions in ICPD include:

- i) Placing animals on covered feed and protecting drinking water supplies that use rainwater (e.g. to disconnect rainwater collection pipes); and
- ii) Restricting consumption of local produce and non-essential food, milk from grazing animals and rainwater.

Emergency Planning Zone is divided in 18 sectors designated by codes A to P in clockwise direction as shown figure below.

EMERGENCY PLANNING ZONES AND SECTORS

SECTOR	CENTER LINE OF SECTOR	
	DIRECTION	DEGREES
A	N	0
B	N-NE	22.5
C	NE	45
D	E-NE	67.5
E	E	90
F	E-SE	112.5
G	SE	135
H	S-SE	157.5
I	S	180
J	S-SW	202.5
K	SW	225
L	W-SW	247.5
M	W	270
N	W-NW	292.5
O	NW	315
P	N-NW	337.5

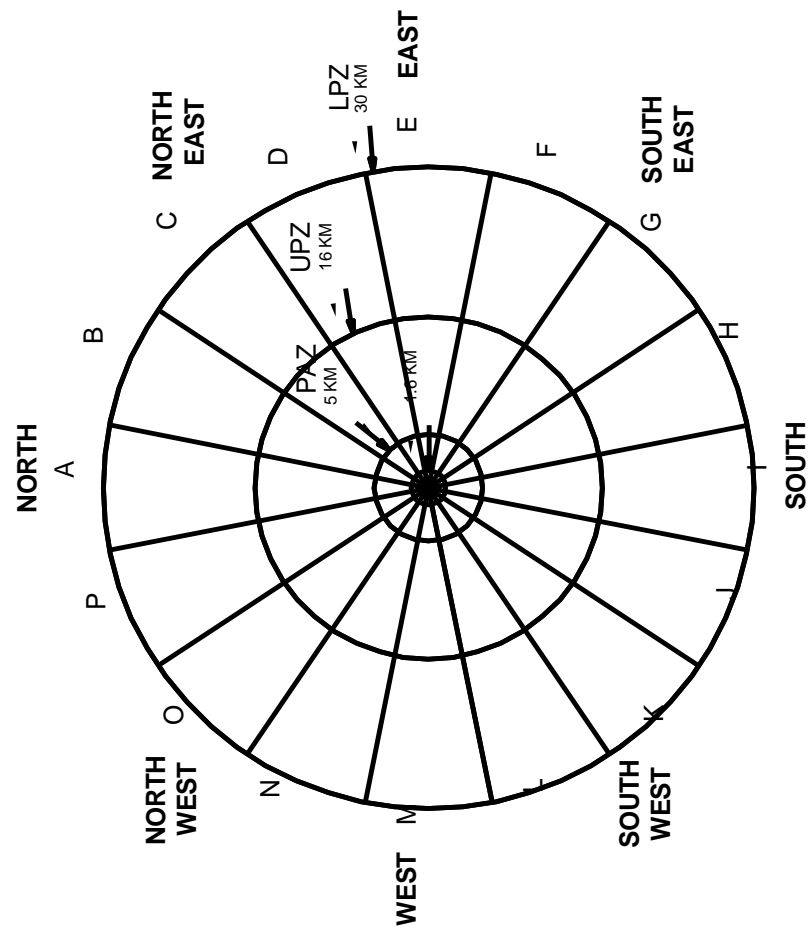
ZONES	RADIUS
PAZ	UP TO 5 KM
UPZ	UP TO 16 KM
LPZ	UP TO 30 KM

LEGENDS:

PAZ : Precautionary Action Zone

UPZ : Urgent Protective Action Planning Zone

LPZ : Long-term Protective Action Planning Zone



## **Chapter-6      Off-site Emergency Declaration and Termination**

### **6.1      Off-site Emergency Declaration and Termination**

#### **Criteria for Declaration of Off-Site Emergency:**

The accidents in nuclear installation detected by plant and process parameters i.e. EALs which may lead to release of radioactivity in the public domain and have potential to deliver doses to the members of public in excess of reference levels, forms the basis to declare an Off-Site Emergency. If the accident and release of radioactivity is in quick succession, the dose projection levels, the concentration levels/the dose rate levels having potential to deliver dose to the members of public in excess of reference levels also forms the basis to declare an Off-Site Emergency. Declaration of Off-Site Emergency is done when plant parameters (EALs) indicate that there is an actual or projected damage to the reactor core with actual damage to barriers or critical safety systems such that a radioactive release becomes highly probable or release have already occurred.

#### **Authority to Declare Off-Site Emergency:**

When Site emergency conditions deteriorate and enter conditions for Off-Site Emergency, the Site Emergency Director declares the start of “Off-Site Emergency” around Kakrapar Gujarat Site.

#### **Notification of Off-Site Emergency:**

On declaration of Off-Site Emergency by Site Emergency Director, the Responsible Officer/Incident Commander (RO/IC) of the district issues the Notification of declaration of Off-Site Emergency.

#### **Authority to Terminate Emergency:**

On situation returning to an existing exposure situation, and on meeting all the Criteria for Termination of Off-Site Emergency, ERD will advise RO/IC for termination of Off-Site Emergency in consultation with the CMG-DAE and Site Emergency Director. RO/IC will decide on termination of the Off-Site Emergency based on the socio-economic considerations and in consultation with other stake holders.

The termination of an Off-Site Emergency will give due considerations for arrangements to handle existing exposure situation so as to gradually achieve planned exposure situation.

#### **Notification of Termination of an Emergency:**

Once the decision to terminate an Off-Site Emergency is taken, RO/IC will issue notification of termination of the Off-Site Emergency and the transition to an existing exposure situation. The Notification on the termination of Off-Site Emergency shall be clear, unambiguous & coherent and shall be communicated to the public, civic authorities, SED, DAE agencies and AERB.

## **Chapter-7 Action plan of member of Emergency Response**

### **Groups**

Members of Response Groups might be required to provide help in more than one emergency response group through their respective departments. Therefore, each individual's expected duties are listed at one place so that they can estimate and quantify amount of task and subdivide and delegate their responsibilities, in advance to suitable persons in their department.

#### **7.1 Officer-in-charge of Warning and Advice to the Public & Safety Measures:**

Flow of information
Incident Commander → Resident Additional Collector → Supdt of Police (SP)

As mentioned in detail in DDMP Part-2 page no:56, Superintendent of Police, Surat (Rural) / Superintendent of Police, Tapi shall be the Officer-in charge of the Group of Warning and Advice to the Public & Safety measures.

The information to be given to the public by the Police should be about the nature of the incident, the steps to be taken to control the situation and the protective measures advised. The announcement shall be in Gujarati and Hindi.

"The analysis of air / water borne effluents released from the Kakrapar Atomic Power Station indicates that they contain radioactive material beyond normal levels. Detailed analysis and steps to control the situation are in progress. In the meantime you are advised to:

- (i) Stay in-door and refrain from going outside until further advice.
- (ii) Refrain from taking water from outside pools and open well and reservoirs.
- (iii) Take the cattle into the shed.
- (iv) Remain calm; listen to the radio, TV or loudspeakers to know what you should do.

**Gujarati Version of above message is given in Table-1.** Superintendent of Police, Surat (Rural)/ Tapi shall arrange to announce the warning to the public through different Police Station of the district. At least five vehicles mounted with PA system shall be available.

## Table પ્રથમ જાહેર સૂચના

### પ્રથમ જાહેર સૂચના

કાકરાપાર અણુ વિદ્યુતમથકમાંથી નીકળેલા વાયુ અને પાણી ની ચકાસણી કરતાં જાણવા મળ્યું છે કે તેમાં સામાન્ય જોઈતા પ્રમાણથી થોડા વધુ પ્રમાણમાં રેડિયો એક્ટિવ પદાર્થો છે. આ પદાર્થોનું સઘન વિશ્લેષણ ચાલું છે, અને આ પરિસ્થિતિ પર કાબુ મેળવવા માટે જરૂરી પગલાં લેવાઈ રહ્યાં છે.

ત્યાં સુધી તમને સલાહ આપવામાં આવે છે કે :

૧. તમે તમારા ઘરમાં જ રહોઅને બીજી સૂચના ન મળે ત્યાં સુધી ઘરની બહાર નીકળવું નહિ.
૨. ફૂવો, તળાવ વગેરે જેવી ખુલ્લી જગ્યાએથી પાણી ન લેવું. ખુલ્લી હવામાં રાખેલું ભોજન ન લેવું.
૩. ઢોર ઢાંખરને છાયાવાળા ઢોરવાડામાં રાખવા.
૪. આ પછી શું કરવું તે અંગેની સલાહ રેડિયો, ટી.વી. તથા બીજા પ્રચાર માધ્યમો દ્વારા આપવામાં આવશે.

કલેક્ટર અને જીલ્લા મેજિસ્ટ્રેટ , સુરત/તાપી

## 7.2 Officer-in-charge of Access and Egress Control Group:

Flow of information
Incident Commander → Resident Additional Collector → Supdt of Police (SP)

On getting information on Off-Site emergency from Incident Commander, Superintendent of Police, Surat (Rural)/Tapi shall carry out traffic diversion to ensure access and egress control.

Two Police Constables will be posted at following five diversion points to block & divert traffic for preventing the influx of traffic/public towards the facility.

1. At Jamankuva (Junction of Madhi- Mandvi Road & Jamankuva-Nani Cher Road)
2. At Varjakhan (Kadod - Tarsada Road)
3. At Khedpura (Mandvi - Kim Road)
4. At Unchamala (Vyara - Unchamala Road)
5. At Ghantoli (Mandvi - Zhankhvav Road)

Apart from the above five traffic diversion points, following additional Sector wise Traffic diversion point shown in Table-2 are also required to be established in the affected sector & sectors adjacent to affected sector for preventing the influx of traffic / public from outside of EPZ into EPZ.

**Table-2**

Sr. No.	Sector	Traffic Diversion Point	Main Road
1.	A	Devgadhi	Zankhvav - Mandvi Road
2.	A	Dev giri	Umarpada Road
3.	A	Bhatkai	Ghantoli - Ukai Road
4.	A	Mandvi	Tapi Bridge on West Side
5.	B	Ghantoli Cross Road	Mandvi - Zankhvav Road
6.	B	Pipalwada	Mandvi - Ukai Road
7.	C	Bhatkai	Ghantoli-Ukai Sherula Road
8.	C	Magtara	Ghantoli-Ukai Sherula Road
9.	D	Pipalwada	Ukai-Mandvi Sherula Road
10.	D	Nindwada	Ukai-Mandvi Sherula Road
11.	E	Chikhali Bhesrot	Wanzarda Cross Road

Sr. No.	Sector	Traffic Diversion Point	Main Road
12.	E	Waghnera	Waghnera - Pipalkuva -Songadh Road
13.	F	Agaswan	Vyara-Ghasiya Meda Road
14.	F	Near Velzar	Trijunction of Vyara Ghasiya Meda Road
15.	F	Chikhalvav	Vyara-Unchamala Road
16.	G	Vyara	Vyara-Ghasiya Meda Road
17.	G	Chikhali-Bhesrot	Vyara-Ghasiya Meda Road
18.	H	Vyara At Kanja Phatak	Vyara-Ghasiya Meda Road
19.	I	Kalamkui	Kalamkui - Champavadi Road
20.	I	Champavadi Trijunction	Kalamkui -Champavadi Road
21.	J	Bajipura-Kahar Patia	Bajipura-Kalamkui Road
22.	J	Dhamodla	Kaher-Kalamkui-Dhamodla Road
23.	J	Bedkuva (Balda)	Bedkuva - Kalamkui Road
24.	K	Sumul Chilling Plant	Bajipura-Madhi -Mandvi Road
25.	K	Manekpur Patia	Manekpur Patia-Siyadla Road
26.	K	Junvani Trijunction	Kadod-Madhi Road
27.	L	Kadod	Madhi-Kadod Trijunction at Kadod
28.	L	Madhi Rly. Phatak	Madhi-Mandvi Road
29.	M	Madhi-Kadod Trijunction (at Kadod)	Bardoli-Mandvi Road
30.	N	Zab	Kim-Mandvi Road
31.	O	Parvat	Godsamba-Kalmoi Road
32.	O	Amba Pardi Trijunction)	Near Highway- Kim- Mandvi
33.	P	Maldha Trijunction	Mandvi - Zankhvav Road
34.	P	Badtal	On Mandvi-Ukai Road

Deputy Superintendent of Police, Vyara/ Bardoli will be in charge for controlling the traffic at the above points. Sign-boards, posts, barricades and red light needs to be used. Two Police Constables at each traffic diversion point will be posted.

Superintendent of Police, Surat (Rural)/Tapishall ensure use of Personal protective equipments and dosimeter by the emergency work force deployed in the affected area.

### 7.3 Officer-in-charge of Prophylaxis, Public Health and Medical Care:

Flow of information
Incident Commander → DDO→CDHO →PHCs/ CHCs & hospitals

As mentioned in detail in DDMP Part-2 page no:67, District Development Officer (DDO), Surat / Tapi shall be the overall in charge for Public health and medical care.

Chief District Health Officer, Surat shall be the team leader for prophylaxis administration and public health & medical care. Chief District Health Officer, Tapi shall be alternate team leader. Additional District Health Officer, Surat/Tapi; Taluka Health Officer, Surat/Tapi; Medical Officer, Primary Health centers and Medical Officer, Community Health centers shall be the team members. Team members shall assist team leader in prophylaxis distribution and Health & medical care.

Upon receipt of information from the Incident Commander about the Emergency, he shall extend the facilities available at the Civil Hospital, Surat, nearby PHCs & CHCs and make available the services of the trained doctors to provide the necessary medical care for people in the affected sectors.

He shall arrange for distribution of Potassium Iodate tablets (KIO<sub>3</sub>) in all the villages in the affected sector.

In the event, evacuation becomes necessary, he shall arrange for supply of sanitary items such as soap, phenyl, lime etc. and for dry latrine facilities at the shelters. He shall deploy Sanitary Inspectors round the clock at these shelters and provide precautionary treatment to prevent epidemics.

He shall organize well-trained medical personnel to handle cases, in affected sectors, requiring medical attention and also arrange for medical care of people in the rallying post. First-aid center shall be set up at the rallying post with equipment and well-equipped ambulances.

The details on Administration of stable Iodine tablets and its dose reduction is given in Table-3.

Hospitals including Primary Health Centres and Community Health Centres available in Emergency Planning Zone for use during Off-Site Emergency are shown in Table-4.



**Table-3**

**Administration of stable Iodine**

1. (A) Administration of stable Iodine means oral intake of  $KIO_3$  tablets.

*Administration of  $KIO_3$  tablets should be done as follows:*

- (b). All individuals above the age of 12 years:  
170 mg ( $KIO_3$ ) – as soon as possible  
  
85 mg ( $KIO_3$ ) – second and third day only;  
  
170 mg ( $KIO_3$ ) – repeat after two weeks, if required.
- (c). Pregnant women;  
50 of quantities given in (a)

2. Time of administration of stable iodine is important for thyroid dose reduction.

**Time of Administration and Dose Reduction**

<b>Time of Administration of Stable Iodine</b>	<b>Reduction in Dose (%)</b>
Before exposure	100
After 1 hour of exposure	80
After 6 hours of exposure	50
After 24 hours of exposure	Negligible

- 3 For inhalation of exposure, decision should be taken to administer stable iodine as soon as possible depending on the assessed potential and estimated quantity of radio-iodine release.
- 4 Administration of stable iodine prior to intake through ingestion route is as effective as for inhalation route.

**Table-4**

**Hospitals including PHCs and CHCs available in EPZ**

Following hospitals including Primary Health Centres and Community Health Centres are available in Emergency Planning Zone for use during Off-Site Emergency.

<b>Sr. No.</b>	<b>Hospital Name</b>	<b>Village/Town</b>	<b>Contact No.</b>	<b>Sector</b>
1.	Primary Health Center	Sathvav	02623-271224	A

Sr. No.	Hospital Name	Village/ Town	Contact No.	Sector
2.	Primary Health Centre	Amalidam	02623-222350	A
3.	Primary Health Centre	Patal	02623-261565	A
4.	General Hospital	Areth	02623-261307	A
5.	Primary Health Center	Dadhwada	02623-221165	B
6.	Primary Health Centre	Ukai	02624-233016	C
7.	General Hospital	Songadh	02624-222060	C
8.	Primary Health Center	Kalavyara	02626-231468	D
9.	Primary Health Centre	Borda	02624-251016	D
10.	Primary Health Center	Ukhalda	02624-251016	E
11.	KAPS Hospital	Anumala	02626-234255	F
12.	Primary Health Centre	Degama	02625-233375	F
13.	General Hospital	Valod	02625-222601	F
14.	Primary Health Center	Agaswan	02624-241216	G
15.	Primary Health Center	Champawadi	02626-235726	H
16.	Government Hospital	Vyara	02626-220053	
17.	Janak Smarak Hospital		02626-220181	
18.	Neel Hospital		02626-222370	
19.	Ashirwad Hospital		02626-220309	
20.	Sanjeevani Surgical Hospital		02626-220757	
21.	Ami Hospital		02626-221248	
22.	Amidhara Hospital		02626-220635	
23.	Hardik Hospital		02626-220534	
24.	Janaki Hospital		02626-222887	
25.	Vishwa Hospital		02626-220638	
26.	Jeevandeep Surgical Hospital		02626-221188	
27.	Navjivan Hospital		02626-225177	
28.	Mahavir Hospital		02626-225482	
29.	Gayatri Ortho & Children Hospital		02626-224900	
30.	Love & Care Hospital		02626-220353	
31.	Aadhrsh Children Hospital		02626-224621	

Sr. No.	Hospital Name	Village/ Town	Contact No.	Sector
32.	Nishtha Hospital		02626-222020	
33.	Modi Children Hospital		02626-222977	
34.	Yashvarun Hospital		02626-220318	
35.	Primary Health Center	Maipur	02626-221675	I
36.	General Hospital	Bardoli	02622-220260	I
37.	Primary Health Center	Kalamkui	02625-242179	J
38.	Primary Health Center	Vanskui	02622-242183	K
39.	Vyas Hospital	Madhi	02622-242332	
40.	B R Smarak Hospital	Bamani	02622-291094	L
41.	Primary Health Centre	Varad	02622-255361	L
42.	Damodar Gandhi Hospital	Kadod	02622-246242	M
43.	Referral Hospital		7567872666	
44.	Primary Health Center	Kamlapor	9727709565	
45.	General Hospital	Zankhvav	02629-256317	M
46.	Primary Health Centre	Bodhan	02623-251419	N
47.	Government Hospital	Mandvi	02623-221163	N
48.	Tejas Eye Hospital		02623-222080	
49.	Pushpak Hospital		02623-223144	
50.	Shivkrupa Hospital		02623-221211	
51.	Ranjan Hospital		02623-223456	
52.	General Hospital	Mangrol-Umarpada	02629-220247	O

**Note:** This includes Government and Private Hospitals in the EPZ. With time there can be changes, hence the updated list maintained with CDHO, Surat/Tapi will be used during Emergency/Exercise

#### 7.4 Officer-in-charge of Transport:

Flow of information
Incident Commander → Divisional Controller (GSRTC) → Depot Managers
Incident Commander → RTO (Surat/ Tapi)

The Divisional Controller, Gujarat State Road Transport Corporation (GSRTC); Surat is in-charge of transport. He shall arrange for the dispatch of vehicles with fuel at full tank level to reach the vehicle collection centers at Vyara, Mandvi, Bardoli, Songadh and other collection centers immediately on receipt of information from the Collector about the decision to evacuate the affected sectors.

He shall contact the concerned Depot Managers in their affected area who is the Officer-in-charge of vehicle collection centers and apprise him of the dispatch of the buses. The buses shall be in the Depot Managers' charge until the release orders are issued.

RTO, Surat shall arrange for additional private vehicles as required by the Depot Managers. He shall arrange vehicles for transportation of cattle from the affected area.

The Convoy Officer shall ensure that the destination and route to be followed are prominently displayed on the vehicle. This group will be stationed at the dispatch point of the affected area. The dispatch point will be announced to the public by warning and advice team on the advice of the Emergency Response Operation Group. SDM, Vyara/ Mandvi shall co-ordinate the activity of evacuation and provide assistance to DC, GSRTC if needed.

He shall also ensure that all the officials attached to him are provided with protective clothing, dosimeters and prophylaxis before embarking on their tasks.

#### 7.5 Officer-in-charge of Evacuation Group:

Flow of information
Incident Commander → Resident Additional Collector → Supdt of Police (SP)
Incident Commander → Divisional Controller (GSRTC) → Depot Managers
Incident Commander → RTO (Surat/ Tapi)

- a) Superintendent of Police (SP), Surat/ Tapi is responsible for announcement of evacuation in the affected village(s). After getting message from Incident Commander, he shall initiate announcement of evacuation in the affected village with the help of police personnel.

**Text of Announcement of Evacuation will be as follows:**

**Announcement for Evacuation:**

**Attention all Villagers:** “As the source is not yet under control & radiation field exists in affected areas and is likely to persist for a considerable period of time. Hence, Collector & DM, surat/ Tapi recommend evacuating the villagers from the affected village. Please follow the instructions of given by police officials and start evacuation at central point in orderly manner.

ગામ ખાલી કરવાની જાહેરાત :

બધા ગ્રામજનો ધ્યાન આપે : “ રેડીએશનનો સ્ત્રોત હજી સુધી કાબુમાં આવ્યો નથી અને વિકિરણનું સ્તર અસરગ્રસ્ત વિસ્તારમાં લાંબા સમય સુધી રહેવાનું છે. આથી કલેક્ટર અને ડિસ્ટ્રિક્ટ મેજિસ્ટ્રેટ, સુરત / તાપી દ્વારા અસરગ્રસ્ત ગામના ગ્રામજનોને સ્થળાંતર કરવાની સલાહ આપવામાં આવે છે. મહેરબાની કરીને પોલીસ દ્વારા આપવામાં આવતી સૂચનાનું પાલન કરો અને શિસ્તબદ્ધ રીતે સ્થળાંતર માટે ઠરાવેલી જગ્યા તરફ પ્રયાણ કરો.

- b) On getting information on Off-Site emergency from Incident Commander, Divisional Controller, Gujarat State Roadways Transport Corporation (GSRTC), Surat shall inform his team members to mobilize the buses.

Divisional Controller, GSRTC, Surat, shall contact all the depot managers for mobilization of the buses and taking stock of the situation regarding the availability of buses and the drivers at the depots.

Alert the depot managers at Songadh, Mandvi & Bardoli to be ready to mobilize the buses in service if the situation demands and to get buses ready at the depots undergoing maintenance.

The buses operate with a limited route length from the bus depots in the vicinity of Surat division can be withdrawn from service and sent to the identified parking yard within six hours from the time of receipt of the message.

If the situation warrants, it is considered feasible in an emergency, to transfer passengers in buses operating on shorter distance routes to other buses operating on longer distance routes so that the former vehicles can also be brought in service for evacuation purpose.

Since the co-ordination between depots is required, Divisional Traffic Officer, GSRTC will co-ordinate for smooth operation. He shall also ensure that all drivers in emergency duty should wear protective clothing and carry radiation dosimeters issued from OECC.

Alert the Divisional Officer, Indian Oil Corporation (IOC), Surat, to ensure adequate supplies of fuel for the buses.

Mobilize the buses returning to the terminus and direct them to report at respective parking yard with full fuel tank.

Keep in touch with the Collector and District Magistrate, Surat/Tapi.

Arrange to mobilize additional buses if the situation demands.

RTO Surat / ARTO Tapi shall remain in contact with DC, GSRTC Surat and arrange mobilization of private vehicles if required.

Divisional Traffic Officer GSRTC, in co-ordination with SDM, Vyara/ Mandvi shall form a convoy team for evacuation of the personnel from the villages in the affected sector(s) to the Rallying Post.

Arrange to evacuate people from the affected villages as per the given route (refer evacuation route maps of the affected sector). For each village temporary shelters have been identified (i.e. school building, Hostel etc.) for assembly of villagers prior to evacuation. While evacuation all doors & windows of buses/vehicles shall be closed properly.

He shall also arrange the buses for transport after termination of the emergency from Rallying Post to their respective village(s).

The convoy teams and the bus drivers are clearly briefed about the sector in which they would operate, the names of the villages to be evacuated in the sector, the locations of the Rallying Posts outside the EPZ to which the population from each village is to be moved, the boarding points at each village and the routes to be taken from the parking yards to the Rallying Posts. They shall also ensure that all the buses display boards indicating clearly the villages to be evacuated, the respective rallying post and route to be followed. They shall also arrange to paste the "On Emergency Duty" word in all the vehicles used during emergency.

Information regarding the bus schedules, the boarding points and the location of the Rallying Posts will be made available, sufficiently well in advance by OED, to enable him to advise the public accordingly.

Contamination check will be done on the vehicles and decontamination of the vehicle will be done if the vehicle is contaminated. Contamination Monitoring of the evacuees and vehicles shall be performed by officials from district administration. However, to carry out this activity, technical guidance may be taken from site director, if needed.

## **7.6 Officer-in-charge of Security:**

Flow of information
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Incident Commander → Resident Additional Collector → Supdt. of Police (SP)

Superintendent of Police, Surat (Rural) / Superintendent of Police, Tapi is officer-in-charge of security. Chief Warden Officer, Civil Defence, Vyara & PSI Civil Defence-Anumala Township shall assist him.

In the event of evacuation, he shall make necessary security arrangements to guard the evacuated residential areas round the clock and he shall be responsible for the protection of properties and belongings left behind by the evacuee(s).

### 7.7 Officer-in-Charge of Shelters at Rallying Post:

Flow of information
Incident Commander → SDM, Surat/ Tapi

Sub Divisional Magistrate, Vyara/Mandvi/Bardoli is the designated officer for overall organization of the shelters. Deputy Collector (Mid-day Meal (MDM)), Surat will alternate officer in charge of Shelters.

An Officer of the cadre of Mamlatdar shall be in charge of each shelter.

The In-charge, shelters shall be assisted by the following officials

Deputy Mamlatdar

Panchayat Chief (Sarpanch)

Police Sub-Inspector of Police with Head Constable (One no.), Constables (six no.)

Medical Officers with paramedical Medical Staff of PHCs/ CHCs

Health Inspectors with health visitors of PHCs/ CHCs

The In-charge shelters shall maintain a record of the evacuee(s) (under the heads men, women and children) and he shall be solely responsible for the overall activities of the shelters. He shall arrange for return of the evacuee(s) as soon as the termination of Emergency is announced.

There is total 8 nos. of Rallying Post identified outside of EPZ which are as follows:

Sr no	Location of Rallying Post
1	Areth
2	Songadh
3	Vyara
4	Valod

5	Bardoli
6	Zankhvav
7	Umarpad
8	Ukai

### 7.8 Officer-in-Charge of Vehicle Collection Centre:

Flow of information
Incident Commander → RTO (Surat/ Tapi)

Regional Transport Officer, Surat shall be overall in charge of handling Vehicle Collection Centre with regard to the dispatch of vehicles to the villages for evacuation. He shall mobilize private vehicles, if needed for evacuation, supply of fodder requirement and supply of commodities at shelter points.

He shall arrange to maintain proper accounts for inflow of vehicles, crews and dispatch of vehicles with crews for evacuation. He shall also keep track of the details of vehicle Nos., time of arrival, names of crew members, Officer in charge of the vehicles etc.

The Officers in charge of the vehicles for the transport of the public are designated as Convoy Officers. These Officers shall be in the cadre of Mamlatdar. The Convoy Officer shall ensure that a public-address system is fitted in the vehicle for announcement, regarding the arrival of vehicles, the place of parking, the time of departure, etc., so as to minimize delay in evacuation. He shall further ensure that the destination and route to be followed are prominently displayed on the vehicle. This group shall be stationed at the dispatch point.

He shall also ensure that all the officials attached to him have been issued with protective clothing, dosimeters and prophylactic agents before embarking on their tasks.

### 7.9 Officer-in-Charge of Catering to the Evacuee(s) at Shelters at Rallying Post:

Flow of information
Incident Commander → District Supply Officer, Surat/ Tapi

As mentioned in detail in DDMP Part-2 page no:61 to 63, DSO, Surat/ Tapi shall be the Officer-in charge of Catering to the Evacuee(s) at Shelters at Rallying Post.

Dy.Collector, (MDM) and Mamlatdar, MDM shall also assist him. DSO shall arrange to provide cooked food to the evacuee(s) upon their arrival at the shelters. Regional Transport Officer, Surat/ ARTO, Tapi will assist for providing adequate vehicles for transportation of the items as per requirement.



### **7.10 Officer-in-Charge of Fire Services:**

Flow of information
Incident Commander → Chief Fire Officer, SMC Surat

Chief Fire Officer, Surat Municipal Corporation, Surat district shall be responsible for providing assistance required to the disabled, handicapped, aged and ailing persons during transportation to the shelters. The Chief Fire Officer shall also be prepared to handle any firefighting or rescue operations in the affected sectors. If required, he can mobilize the Fire tenders from the neighboring cities.

### **7.11 Officer-in-Charge of Cattle care:**

Flow of information
Incident Commander → District Animal Husbandry Officer, Surat/ Tapi

As mentioned in detail in DDMP Part-2 page no:66 to 67, assisted by Deputy director (Animal Husbandry), District Animal Husbandry Officer, Surat/ Tapi shall be the Officer-in charge of cattle care.

The District Animal Husbandry Officer, Surat/ Tapi shall appoint adequate number of persons to look after the cattle left behind in the evacuated sectors. He shall be assisted by Deputy Director (Animal Husbandary)-Surat, Veterinary Officer-Vyara, Poultry Officer-Vyara and Assistant Director (Fisheries), Surat.

He shall prepare a list of shelters for utilization during the Emergency. He shall select a shelter in the un-affected sector to drive away the cattle including Sheep and Goat from the affected sector. He shall also be responsible for arranging fodder for the cattle during the Emergency. OIC-ESL shall ensure the radioactivity measurement is carried out to confirm that there is no build up of activity in the fodder.

List of veterinary officers in Tapi Jilla Panchayat is mentioned in Apendix-8 of DDMP part-2.

### **7.12 Officer-in-Charge, Drinking Water Supply:**

Flow of information
Incident Commander → District Supply Officer, Surat/ Tapi

District Supply Officer, Surat/ Tapi will take charge of drinking water supply and will be responsible for supplying drinking water to local population and the public at shelters.

### **7.13 Officer-in-Charge, Ingestion Monitoring & Control Group:**

Flow of information
Incident Commander → DDO→CDHO →PHCs/ CHCs & hospitals

Chief District Health Officer (CDHO), Surat/ Tapi shall be coordinator for environmental monitoring and control in affected areas. This group shall ensure sampling of milk, grass, goat thyroid, crop, ground and surface water. Head, Environmental Survey Lab (ESL), Kakrapar Gujarat Site shall assist CDHO in carrying out radioactivity monitoring in affected areas. ESL, Kakrapar Gujarat Site shall get them analyzed to assess the extent of contamination levels and give input to Advisory Group.

The OIC, ESL shall also recommend Operational Intervention Level (OIL) and/or any other parameter to field staff, for control of food stuff by human or cattle, in the affected areas.

#### **7.14 Radiological monitoring:**

A group comprising of members from Health physics unit, Environment Survey lab of Kakrapar Gujarat Site shall continuously monitor and provide information to technical assessment and support group regarding following aspects:

Categorization of OIL depending on the radiation field/dose.

- a) Protective actions to be taken thereof and duration of their implementation.
- b) Time of reaching different OIL, so that protective actions can be started.
- c) The other technical input including like meteorological conditions, field monitoring data and estimate source term (release of radioactivity) etc.

The team shall go for field survey on regular basis and inform regarding changing field situation during Off-Site emergency.

Activities of this group are crucial for effective handling of radiation emergency.

#### **7.15 Decontamination group:**

This group will comprise of:

- a) SDM, Vyara/ Mandvi/Bardoli (Over all coordinator)
- b) Mamlatdar, Vyara/ Mandvi
- c) CDHO, Surat/ Tapi
- d) RTO, Surat/ ARTO, Tapi
- e) Superintendent, General Hospital, Vyara/ Mandvi
- f) Trained Inspector, Civil Defense, Anumala Township
- g) In charge Occupational Health hazards, KAPS hospital,
- h) Station Health Physicist of unaffected Plant
- i) Head, ESL Kakrapar Gujarat Site,
- j) Dy. Chief Fire Officer, Kakrapar Gujarat Site.
- k) Member from DAE Emergency Response Team (ERT)

This group shall ensure decontamination of persons, land, buildings, vehicles, and disposal of the contaminated farm products. This group shall demarcate and isolate contaminated area, building and put restriction on entry or exit to and from those areas/buildings until decontaminated.

The group shall inform / educate members of public regarding preventive measures to be taken for preventing personnel contamination and Protective Actions to be taken once contaminated, to prevent further spreading of contamination among members of public.

Following officials shall be responsible for above activities and may co-opt any members for their help:

CDHO, Surat/ Tapi	For Decontamination of persons
RTO, Surat/ ARTO, Tapi	For Decontamination of vehicles
SDM, Vyara/ Mandvi	For Decontamination of land & buildings, and disposal of contaminated farm products in consultation with the Off-Site Emergency Director
Dy. Conservator of Forest, Vyara	

### **7.16 Exposure Management Response Group:**

This group comprises of:

- a) CDHO, Surat/ Tapi (Over all coordinator)
- b) Superintendent, General Hospital, Vyara/ Mandvi
- c) Medical Superintendent, KAPS Hospital
- d) Head, ESL Kakrapar Gujarat Site
- e) Station Health Physicist of unaffected station
- f) Officer Commanding, Home Guards & Chief Warden Officer, Civil Defense, Vyara
- g) Member from DAE Emergency Response Team (ERT)

Persons complaining of sickness with no apparent symptoms will be monitored for internal contamination (if any) by Whole Body Counting System at Kakrapar Township Hospital. They will be decontaminated at Personnel Decontamination Center (PDC) if found contaminated.

They will be kept under observation by In charge of occupational health hazards and will be provided necessary treatment for over exposures.

## **Chapter-8 Resources and Facilities:**

In the DDMP, various resources and facilities are mentioned in the following Appendix/ pages.

### **8.1 Emergency Control Rooms: )**

1. District Control Room (DCR)
2. Taskforce Control Room (TCR)
3. Taluka Level Control Room (TLCR)

#### **8.1.1 Communication Facilities in DCR**

- BSNL Telephones
- FAX
- Walkie Takie sets
- Setalite phone
- Email facility
- Internet facility

### **8.2 Availability of resources: (pl. refer Appendix-5)**

List of various lifesavings equipments & other equipments available with seven Mamalatdar offices and two Nagarpalika are mentioned in the Apendix-5 of DDMP

### **8.3 Inventory of Prophylaxis:**

The stock of total 1, 10,000 KIO<sub>3</sub> (Potassium Iodate) tablets is available with Kakarpar Gujarat site for distribution in public domain.

The procurement of stable Iodine tablets will be done by KAPS authorities and inventory of the same will be maintained. Distribution during emergency if require shall be done under the leadership of Chief District Health Officer (CDHO), surat/ Tapi through doctors and paramedical staff of CHCs/ PHCs.

### **8.4 Radiation Instruments and PPEs:**

As such district administration is not having radiation instruments and PPEs to handle radiation emergency. So during Off-site emergency, help from NDRF team from Gandhinagar and Vadodara will be taken.

### **8.5 Radiological Safety Officers:**

All the cancer hospitals in the district/ state have been identified where Radiological Safety Officer exists. Database of the same is being prepared and will be added as annexure.

### **8.6 Non-Government Organizations (NGOs):**

Non-Government Organizations (NGOs) available in Tapi district is mentioned in Apendix-68of DDMP part-2 which will be utilized in case of emergency.

## **Chapter-9 Capacity Building team**

### **9.1 Availability of Hospitals and Doctors during emergency:**

Primary Health Centres (PHCs), Community Health Centres (CHCs) and Trust hospitals available during emergency along with doctors are already y mentioned in Appendix of DDMP 07

Also, bed strength in the various hospitals is mentioned in the Appendix of DDMP

List of doctors trained in handling radiation emergency are given in Annexure-

### **9.2 Apada Volunteers:**

In case of emergency, Apada volunteers mentioned in DDMP Appendix will be utilized.

### **9.3 Fire services:**

District administration has already interaction with fire services available near by towns. The list of fire services can be used during emergency is shown in Appendix

### **9.4 Training:**

Training of all district authorities including OEDs, Emergency response coordination committee members, revenue officers, depot managers, doctors and paramedical staff, police officials, veterinary officers etc. is being imparted by KAPS authorities in regular intervals.

**Annexure**

**List of Doctors trained in handling radiation emergency**

SR. NO.	NAME OF PARTICIPANT	DESIGNATION	LOCATION	MOBILE NO.
1	DR AARTI PAREKH	ANESTHETIST	CIVIL HOSPITAL NAVSARI	9879069218
2	DR AMI PATEL	MEDICAL OFFICER	PHC KAMLAPOR	7043525775
3	DR ARVIND N. AMBALIYA	I/C SUPERITENDENT	R.H. & CHC ARETH	9099128399
4	DR ASHISH M. GAMIT	MEDICAL OFFICER	PHC UKHALDA	8128038320
5	ASHVIN H. VASAVA	ASSO.PROF. GMC SURAT	NEW CIVIL HOSPITAL, SURAT	9879584442
6	DR BHAGYASHRI K. PATEL	MEDICAL OFFICER	PHC KANJOD	7069018619
7	DR BHAVESH N. PATEL	ASST. PROF.	GMERS VALSAD	9909912122
8	CHAUDHARI BRIJAL MANOJBHAI	MEDICAL OFFICER	PHC AGASWAN	9512549339
9	CHINTAN KUMARVINOD BHAI TAMAKUWALA	MEDICAL OFFICER	PHC AMLIDEM	9712995664
10	DR. FILIP KUMAR ARUNBHAI GAMIT	MEDICAL OFFICER	PHC KAROD	9712781092
11	DR. HARSHEDA CHAUDHARI	ANESTHETIST	MANDVI SDH	9828113228
12	DR. HEMANT KUMAR M SHAH	ASST. PROF.	SMIMER SURAT	9979871153
13	DR. HETAV B SADADIWALA	M.D PSM	JILLA PANCHYAT TAPI	9016734647
14	DR. JAGRUTI A SHETH	MEDICAL OFFICER	PHC VANSKUI	9722709550
15	DR. JAYESH SHYAMNANDAN SINGH	RADIATION DEPT.	GCRI AHMEDABAD	7878211117
16	DR. NATIK CHAUDHARI	M.S SURGEON	GENERAL VYARA	9722742521
17	DR. NEHA G VASAVA	M.D ANESTHETIST	GOVT. HOSPITAL VYARA	8866368468
18	DR. NIHA VASAVA	MBBS	PHC DOLVAN	9265399486
19	DR. NIMESH. J CHAUDHARI	PHYSICIAN M/D	GENERAL HOSPITAL VYARA	9537514485
20	DR. NUTAN R CHAUDHARI	MEDICAL OFFICER	PHC CHAPAVADI	9727709577
21	DR. OM PRAKASH	NUCLEAR HEALTH PHYSICIST	GCRI AHMEDABAD	9825777961
22	PARBAT ODEDRA	MEDICAL PHYSICIST	MEDICAL COLLEGE JAMNAGAR	9898218732
23	DR. PARMAR ASHVIN A	M.D MEDICINE	MGG GENERAL HOSPITAL NAVSARI	9824027500
24	DR. PATEL VIMAL KISHANBHAI	GENERAL SURGEON	MGG GENERAL HOSPITAL NAVSARI	9925037193
25	DR. TINKAL PATEL	PROFF. & HEAD Medicine Dept.	GMC NEW CIVIL HOSPITAL SURAT	9898713223
26	DR. RAKESH S AHIR	GENERAL SURGEON	GENERAL HOSPITAL AHWA	9879675237
27	DR. RAVINDAR KUMAR D GODHANI	MEDICAL OFFICER	PHC TADKESHWAR	8980699656
28	DR. RUJAL R PATEL	<sup>266</sup> M.D ANAESTHESIA	CHC & REFERAL HOSPITAL NAVSARI	9925060092

29	DR. SATISH M PELAGADE	ASSO. PROF.MEDICAL PHYSICS	GCRI AHMEDABAD	9327074766
30	DR. SEJAL JADAV	M.D ANESTHETIST	COTTAGE HOSPITAL VANSDA	8238005091
31	DR. SHITAL V KUNBI	MEDICAL OFFICER	PHC KADOD MORI	7567872666
32	DR. SWATI C MEHTA	M.D ANESTHETIST	SATYAGRAH HOSPITAL & CHC BARDOLI	9428425181
33	DR. TEJAS KUMAR U CHAUDHARI	PHYSICIAN CLASS I	CHC BARDOLI	8238004123
34	DR. TEJAL R CHAUDHARI	MEDICAL OFFICER	PHC KALAVYARA	9727709581
35	DR. VIMAL C PATEL	SUPERINTENDENT	RH & CHC SONGADH	7567873636
36	DR. USHA KIRAN SHARMA	RMO	GENERAL HOSPITAL AHWA	9879576421
37	DR. UPENDRA M POOCHHWALE	RMO CLASS I	SDH MANDVI	9510157025
38	DR. UPADHYAY KAMLESH J	PROF. & HEAD	BJMC & CIVIL HOSPITAL AHMEDABAD	9825362253
39	DR. AMRUT PATEL	M.S SUPERINTENDENT	SATYAGRAH HOSPITAL BARDOLI	7567873618

## Important Contact Details

### Contact Details of KOERCC Members and Alternate members

SL. NO.	DESIGNATION	TELEPHONE NO	
		OFFICE	RESI.
Members of KOERCC			
1.	Collector & District Magistrate, Surat (OED)	0261-2652525 0261-2655151	0261-2669080 0261-2669580 9978406222
2.	Collector & District Magistrate, Tapi (OED)	02626-224460	02626-220221 9978405364
3.	Deputy Collector and Sub Divisional Magistrate, Vyara	02626-220551	9978405053
4.	Sub Divisional Magistrate, Mandvi	02623-221177	02623-221172
5.	Superintendent of Police (Rural), Surat.	0261-2651832 0261-2651831	0261-2651834
6.	Superintendent of Police, Tapi	02626-222700	02626-222700 9978405488
7.	District Development Officer, Surat	0261-2422160	9978406247
8.	District Development Officer, Tapi	02626-222141	02626-220222 9978405263
9.	District Supply Officer, Surat.	0261-2465114	261-2656101
10.	Chief District Health Officer, Surat.	0261-2430537	0261-2430537
11.	Deputy Director of Information, Surat	0261-2474423	0261-2474423
12.	Divisional Controller Gujarat State Roadways Transport Corporation, Surat.	0261-2542744	0261-2542744
13.	General Manager (Rural), BSNL, Surat	0261-2244400	9427119090
14.	Regional Transport Officer, Surat	0261-2464902	0261-2464902
15.	Chief Fire Officer, Surat , Municipal Corporation, Surat	0261-2423751-56 Ext. 229	0261-2423751-56 Ext. 229
16.	District Agriculture Officer, Surat,	0261-2425751-55	0261-2425751-55
17.	District Animal Husbandry Officer, Surat	0261-2425751-55	0261-2425751-55
18.	Executive Engineer, DGVCL, Vyara	02626-220165	9879200771



SL. NO.	DESIGNATION	TELEPHONE NO	
		OFFICE	RESI.
19.	Superintendant Engineer, Irrigation Surat Circle, Kakrapar & Ukai Canal Division, Surat	0261-2668760	9978405550
20.	Officer Commanding, Home Guards, Vyara & Chief Warden Officer, Civil Defence Kakrapar	02626-221546	02626-220444
21.	Site Director (SED), Kakrapar Gujarat Site, NPCIL	02626-234245	02626-234237
<b>Alternate Members of KOERCC</b>			
1.	Resident Additional Collector, Surat	0261-2669200 0261-2660011	0261-2655828 9978405220
2.	Resident Collector And Additional District Magistrate, Tapi	02626-224450	9978405415
3.	Mamlatdar, Vyara	02626-220012	7567007247
4.	Sub Divisional Magistrate, Bardoli	02622-221124	02622-221124
5.	Deputy Superintendent of Police (Rural), Surat	0261-2651830	0261-2651830
6.	Deputy Superintendent of Police , Tapi	02626-224193	9978408077
7.	Dy. District Development Officer, Surat	0261-2425751-55	0261-2425751-55
8.	Dy. District Development Officer, Tapi	02626-220405	7567018102
9.	District Supply Officer, Tapi.	02626-224400	02626-224400
10	Chief District Health Officer, Tapi.	02626-220376	9879544425
11	Director of Information, Tapi	02626-222980	9586221935
12	Divisional Traffic Officer, GSRTC, Surat	0261-2551431	0261-2551431
13	Divisional Engineer (Rural) BSNL, Vyara	02626-221000	9429897189
14	Assistant Regional Transport Officer (RTO), Tapi	02626-223390	9726847442
15	Divisional Fire Officer, Surat Municipal Corporation, Surat	0261-2423751-56	9724345510
16	District Agriculture Officer, Tapi,	02626-220365	9909971329
17	District Animal Husbandry Officer, Tapi	02626-220679	9427052248
18	Deputy Engineer, DGVCL, Vyara	02626-220165	9978935813
19	Executive Engineer, Irrigation Surat Circle, Kakrapar & Ukai Canal Division, Surat	0261-2668760	0261-2668760

SL. NO.	DESIGNATION	TELEPHONE NO	
		OFFICE	RESI.
20	Police Inspector, Civil Defense, Kakrapar	02626-234122	02626-234122
21	Station Director, KAPS-1&2	02626-231202	02626-234000
	Station Director, KAPS-3&4	02626-242001	02626-234147

*Contact Details of Emergency Control Centres*

Sr. No.	Designation	Auto Ph. No.	BSNL Ph.no.	Mobile No.
1	PECC, KAPS-1&2	24381 24388	234280 231231	---
2	PECC, KAPS-3&4	43111 43000	231501(Fax)	---
3	SECC	24300	234245 234266(Fax)	---
4	Off-Site Emergency Control Centre	52333	234275 234257(Fax)	---

*Contact Details of DAE Emergency Control Room and Integrated Operation Centre Control Room (MHA), Delhi*

Sr. No.		Phone	Mobile	FAX
1.	DAE Emergency Control Room	022-22023978 022-22862595	09969201364	022-22830441
2.	Alternate DAE Emergency Control Room	022-25515283 022-25591070	09969201365	022-25993080 022-25591080
3.	CONTROL ROOM Integrated Operations Center, MHA	011-2309 3054 011-2309 3563 011-2309 3564 011-2309 3566		

## Annexure:-30 Name and number of Sarpanch-Talati-Teacher of all villages in Tapi district

SR NO.	VILLAGE NAME	POPULA TION	SARPANCH		TALATI		SCHOOL PRINCIPAL	
			NAME	NUMBER	NAME	NUMBER	NAME	NUMBER
1	KARANJVEL	2925	TINESHBHAI R. GAMIT	9913349007	HARSHABEN N. CHAUDHARI	6352348836	SARLABEN B. CHAUDHARI	9586592481
2	KAPADVAN	901					RANJANABEN B. GAMIT	8980554108
3	KATKUI	1004					SURESHCHANDRA R. GAMIT	9978193094
4	SHAHPUR	661	MASHUBEN S. GAMIT	6353866836	NUTANBEN R. GAMIT	9979665646	NIRMALABEN P. CHAUDHARI	9978324429
5	RUPVADA	1733	ASHABEN N. GAMIT	8200203342			RANJANBEN R. GAMIT	7874989560
6	KHANPUR	1122	SANJAYBHAI R. CHAUDHARI	9913860041			YOGESHKUMAR N. GAMIT	9925594715
7	CHHIRMA	389	DINESHBHAI S. CHAUDHARI	9879547292			MANJULABEN Z. CHAUDHARI	8141806064
8	VIRPUR	930	SANGITABEN D. GAMIT	7990412275	BHANUBEN R. PARMAR	9624225187	MINAXIBEN G. SOLANKI	9712018278
9	CHIKHALI	2597					JAYESHBHAI R. CHAUDHARI	9909192201
10	KATGADH	372	NAINABEN S. GAMIT	9638674334			-	-
11	TADKUVA	2159					KIRANKUMAR K. GAMIT	9979393316
12	SARKUVA	1064	JANAKBHAI K. GAMIT	9825526594	DHRUTIBEN A. CHAUDHARI	8140469096	BRIJESHKUMAR J. GAMIT	9879579446
13	CHAMPAVADI	2527	AMULBHAI A. GAMIT	9979512022	NUTANKUMARI S. GAMIT	9724129461	SHAILESHKUMAR B. GAMIT	9978192138

14	VAGHPANI	505					CHAMPABEN V. GAMIT	8469500496
15	SADANVAN	1028	ALPESHKUMAR A. GAMIT	9925328831			JALAMSING K. VASAVA	9909161780
16	KATISKUVANA JIK	1290	URMILABEN R. GAMIT	9698878102			DILIPBHAI K. GAMIT	9925156616
17	CHHINDIA	1883	HEMANTBHAI G. GAMIT	7016780311	HETALBEN G. GAMIT	9426682289	MANISHKUMAR S. PATEL	8905405004
18	VELDHA	553					NAVARJIBHAI K. GAMIT	9925582171
19	DOLARA	2029					PREMLATABEN N. CHAUDHARI	9909370005
20	PERVAD	1277					PRADIPBHAI C. CHAUDHARI	9913858591
21	LOTARVA	1917	BHAVISHABEN K. CHAUDHARI	9909792959	DAKSHABEN K. GAMIT	9586609900	JILESHBHAI K. CHAUDHARI	9825363623
22	BHANA VADI	1583	SANGITABEN S. GAMIT	9913209499			ARJUNBHAI P. CHAUDHARI	9913434381
23	UNCHAMALA	8830	RAKESHBHAI C. DODIYA (ADMINISTRATIVE)	8320000547	SANJAYKUMAR T. CHAUDHARI	9727881280	SANJAYKUMAR G. CHAUDHARI	9925893611
24	RANIAMBA	931	B. B. PARMAR (ADMINISTRATIVE)	9979484440	EZRAKUMARI S. GAMIT	7874921307	HIRABHAI R. GAMIT	9512737207
25	DHONGIAMBA	174					-	-
26	VADPADA	533					PRAKASHBHAI V. CHAUDHARI	9979682101
27	CHHEVADI	104					-	-
28	BIRBARA	122					SMITABEN B. GAMIT	9712946834
29	NANA SATSHILA	227					GEETABEN G. GAMIT	9979484495

30	CHICHBARDI	718					SARMUKHBHAI R. GAMIT	9913438013
31	MIRPUR	934	TEJALBEN S. CHAUDHARI (ADMINISTRATIVE	9726442315			BALLUBHAI G. GAMIT	9327290899
32	VALOTHA	361					DINESHBHAI R. CHAUDHARI	9879083816
33	LIMADADA	2140	HINABEN N. GAMIT	8980475066	CHANDRES P. DHANANI	8469534120	RANJITBHAI B. CHAUDHARI	9879569314
34	VADKUI	1665	KALPESHBHAI B. GAMIT	8469624981			DHARMESHKUMAR R. GAMIT	9586736751
35	AMBIYA	1774	REKHABEN A. CHAUDHARI	8980996812	B.B. PARMAR	9879232046	REKHABEN M. GAMIT	9426540056
36	JESINGPUR	2427	ANITABEN P. CHAUDHARI	9586413201			RUSHABEN M. CHAUDHARI	8758960214
37	KHUNTADIYA	1847	AJAYBHAI K. GAMIT	8141158886			KISHANBHAI C. GAMIT	9099457934
38	BEDKUVADUR	4008	MARIYAMBEN R. GAMIT	9265353992	ANKURBHAI P. PATIL	8866315055	RADHABEN B. CHAUDHARI	7874763819
39	KANJA	1422	SUNILBHAI R. CHAUDHARI	7567741607			RAKESHBHAI C. CHAUDHARI	9825367319
40	KHODTALAV	2192	NIJABEN A. CHAUDHARI	9825463419			SUBHASHBHAI S. GAMIT	9712017184
41	KALA VYARA	1173	MANJULABEN M. CHAUDHARI	9586746944			SURESHBHAI D. CHAUDHARI	9978332431
42	KHURDI	1639	GAMANBHAI B. GAMIT	9638443042	SARSVATIBEN B. CHAUDHARI	9712549291	RASHMIKABEN B. CHAUDHARI	9099809630
43	LAKHALI	1819	SHILPABEN V. GAMIT	9726522570			RAKESHBHAI H. CHAUDHARI	8141066548
44	ZANKHARI	2047	DILIPBHAI G. GAMIT	9909681230			MAHENDRABHAI M. GAMIT	9879466049

45	DHOLIAUMAR	480					AVINASHKUMAR D. CHAUDHARI	8758049036
46	BHURIVEL	229					NAVINBHAI G. GAMIT	9913207438
47	TICHAKPURA	1064	PARULBEN V. GAMIT	9624355698	DARSHANABEN S. VALVI	9099203600	ANITABEN S. CHAUDHARI	8469472268
48	PANIYARI	1862	USHABEN A. GAMIT	9909677990			VINABEN N. PATEL	9979355806
49	KHUSHALPURA	2476	VIBHUTIBEN H. CHAUDHARI	9327588952	UMAKANTBHAI D. NANDAN	7984277052	SAMEERKUMAR R. GAMIT	9925105662
50	MAYPUR	1207	PRIYANKABEN D. GAMIT	9787339022			KETANKUMAR K. CHAUDHARI	9925444878
51	KOHLI	1261	TRUPTIBEN N. GAMIT	9687187727	ANJANABEN K. VAJA	9925456140	DANABHAI R. CHAUDHARI	9879156135
52	KATASVAN	2447	CHETANBHAI A. CHAUDHARI	9687003719	PRITIBEN J. CHAUDHARI	9586623961	HEMANSHI M. CHAUDHARI	9979358670
53	CHIKHALVAV	1511	RAKSHABEN M. GAMIT	7621863594			NAYANABEN N. CHAUDHARI	8980975270
54	DHAT	1954	RAKESHBHAI I. GAMIT	7202023800	HARDIKKUMAR T. VAGHASIYA	9484847838	TANUBAHEN A. CHAUDHARI	9726005311
55	KANJAN	1722	PRAKASHBHAI R. CHAUDHARI	9979592577			RAMESHCHANDRA F. CHAUDHARI	9913438004
56	RAMKUVA	783	DAKSHABEN V. CHAUDHARI	9586704737			REKHABEN B. CHAUDHARI MO.8200139979	8200139979
57	BAMNAMAL NAJIK	376					SATYAVANBHAI K. CHAUDHARY	8200471007
58	SARAIYA	1441	KAPILABEN R. GAMIT	9638754131	TEJALBEN S. CHAUDHARI	9537195774	MANHARBHAI G. CHAUDHARI	9909530129
59	CHIKHALADA	1808	RIPINBHAI R. GAMIT	8780461129			SHEELABEN K. CHAUDHARI	9726385822
60	MUSA	838	MARIYAMBEN K. GAMIT	9978354951	MINAXIBEN C. GAMIT	7435000148	PURVIKUMARI K. CHAUDHARI	9724948685

61	MADAV	579					SANJAYKUMAR B. GAMIT	9879215489
62	JETWADI	333					LATABEN Y. CHAUDHARI	9429419973
63	VAGHAZARI	723	SAMJIBHAI J. GAMIT	9974965312	CHETNABEN D. PARMAR	8469699419	KALPANABEN H. CHAUDHARI	9978354470
64	UMARKUI	1347	BIPINBHAI R. GAMIT	9909671798	MANISHABEN C. NAKUM	9265866782	SARMUKHBHAI H. CHAUDHARI	9925328838
65	KASVAV	2990	SHAYNABEN B. CHAUDHARI	7990018558			PIYUSHKUMAR R. CHAUHAN	9979462234
66	UMARKUVA	757	JAYABEN V. CHAUDHARI	7284958755	SANJAYKUMAR T. CHAUDHARI (CHARGE)	9727881280	AJITBHAI B. CHAUDHARI	9879031256
67	GHATA	2181	KAMLESHBHAI K. GAMIT	8238588081			VAISHALIBEN P. PATEL	9586778142
68	KATISKUVADUR	914	HITESHBHAI F. GAMIT	9624242405			DEVIBAHEN J. MAHYAVANSHI	9726345864
69	BORKHADI	4609	HINABEN D. CHAUDHARI	9925396619	ASIFSHEKH R. BAGVAN	8320391120	RAKESHKUMAR P. CHAUDHARI	9913398418
70	VANSKUI	2122	VIRSINGBHAI C. GAMIT	9913418942	DARSHANKUMAR K. PARMAR	7203071001	JITENDRABHAI R. CHAUDHAI	8141277216
71	DUNGARGAM	1147	NITINBHAI C. CHAUDHARI	7573060780			BHANUMATI R. CHAUDHARI	9727056734
72	MALOTHA	327	PRADIPKUMAR A. CHAUDHARI	9998956196	ANKITAKUMARI R. PATEL	9638589598	ANTABEN N. CHAUDHARI	9825370696
73	KAPURA	3285	VAISHALIBEN V. CHAUDHARI	9925686360			SUNDERBEN C. CHAUDHARI	8141081236
74	KELKUI	3781	SITABEN U. CHAUDHARI	9925155745	TUSHALKUMAR M. RAMPARIYA	8866935197	RAHULKUMAR B. CHAUDHARI	9909530382
75	GHERIYAVAV	1167	MANISHKUMAR S. GAMIT	9978192299			PRAKASHCHANDRA H. CHAUDHARI	9537275719

76	BHATPUR	1019	NAVINBHAI M. GAMIT	9898741210	JIGNESHBHAI S. GAMIT	9712711479	SANGITABEN R. CHAUDHARI	8758345202
77	PANVADI	2012	SARLABEN B. CHAUDHARI	9727172018			KRISHNABEN L. BAMBHANIYA	8154989210
78	ANDHARVADI NAJIK	758	SUNITABEN J. GAMIT	8160659712			PRAGANABEN P. CHAUDHARI	7990600616
79	BEDKUVANAJIK	1244	UKDIBEN J. GAMIT	9913399597	R. U. MAHALE	9016932373	RUSTAMBHAI R. CHAUDHARI	7202859254
80	RAMPURA NAJIK	658					PRAVINABEN R. CHAUDHARI	9687370781
81	INDU	976	SUNITABEN S. GAMIT	9586908854			MAHENDRABHAI G. PATEL	9925820824
82	MEGHPUR	1429	MAHESHBHAI C. GAMIT	9726991158	JAYKUMAR N. TANDEL	8200510055	MAHESHBHAI D. GAMIT	9925664585
83	ARKUND	410					KAMLESHBHAI H. GAMIT	9586590995
84	SANKLI	1110	INDULAL R. CHAUDHARI	9879545463			VIJAYBHAI R. GAMIT	9979761223
85	BALPUR	2830	KAMLESHBHAI B. GAMIT	9979514153			MANOJBHAI N. PATEL	9909494808
86	VANDARDEVI	736	MEHULBHAI R. GAMIT	9925277827			KAPILABEN S. PATEL	9925272937
87	MAGARKUI	1969	VIJAYBHAI N. GAMIT	9978459100	R. U. MAHALE	9016932373	RAJESHBHAI L. GAMIT	9979192011
88	DADAKVAN	611	VIRALBHAI B. CHAUDHARI	6355137377			NEETABAHEN K. CHAUDHARI	8980579389
89	BHOJPUR NAJIK	1380	SADUBEN A. KOKANI	9925821634			GAJENDRABHAI R. CHAUDHARI	9913592787
90	KANPURA	3399	NIMISHABEN K. GAMIT	9909889801	TULSI P. DAVE	7990485450	NAYANABEN M. CHAUDHARI	8980878554
91	BARMADA	-	-	-	-	-	-	-



## Dolvan Taluko

Sr. No.	Village Name	Population	Sarpanch Name & Number		Talati name & Number		School Principal Name & Number	
1	Pati	5144	Rekhaben Dilkhushbhai Gamit	9727264650	Rajubhai Singabhai Chaudhari	9913661023	Manishbhai Budhabhai Patel	9909208850
2	Antapur	3591	Surekhaben Arjunbhai Chaudhari	8200240639	Prabhakarbhai Sonubhai Gaikwad	9913740609	Shankarbhai Ramjibhai Bhil	8469665752
3	Andharvadidur	2514	Naginbhai Virsingbhai Chaudhari	9106650417			Ilaben Chaudhari	9638444010
4	Pithadara	2203	Rekhaben Sanjaybhai Gamit	8141674347	Kumawat Ashakumari Kailashchand	8758798120	Devsingbhai Ruvjibhai Chaudhari	9879417262
5	Bardipada	1508	RobinaBen Rasikbhai Kokani	8141338984			Satishbhai Jinabhai Gameet	9586377293
6	Pipalwada	1775	Jigneshbhai Sanatbhai Kokani	9537652398			Nahinbhai Kuhalbhai Kokani	9978143991
7	Dhangadhar	1425	Prakashbhai Anilbhai Kokani	9265144802			Vinodbhai Chaudhari	9979759968
8	Jamliya	405	Rekhaben Sanjaybhai Gamit	8141674347			Vasuben Chaudhari	9328164651
9	Ghani	1494	Patel Shivaniben Parasbhai	9638887690	Chaudhari Dharmistha Umedbhai	6353635415	Mahyavanshi Hemantbhai D.	9979986791
10	Bamanamaldur	2478	Gamit Bhavnaben Bipinbhai	9624773947			Gamit Devjibhai M.	9727665271
11	Vankla	2590	Gamit Pannaben Mahendhbhai	9586357105			Gamit Shankarbhai	9374196750
12	Bagalpur	388	Gamit Pannaben Mahendhbhai	9586357105			Chaudhari Sonalben Balwantbhai	6355233277
13	Gadat	3974	Dipikaben Hemantbhai Gamit	9313125909	Vipulkumar Sureshbhai Chaudhari	9638525423	Maheshbhai D. Chaudhary	9726556487
14	Umarvav najik	2484	Manishbhai Vinodbhai Chaudhari	9313885997			Mukeshbhai	9426820867
15	Pathakvadi	2242	Nilamben Rakeshbhai Chaudhari	6354650515	Patel PriyankaKumari Dhansukhbhai	6359788369	Mahendhbhai Kanubhai Chaudhari	9638538179
16	Umarvav dur	2495	Nikitaben Sundarlal Chaudhari	6351819907			Sinaben Narsingbhai Chaudhari	9978455980
17	Garpani	340	Nikitaben Sundarlal Chaudhari	6351819907			Rakeshbhai Patel	8758412377

18	Kakdva	3047	Dharmeshbhai Bharatbhai Chaudhari	9925830595	Ravidas A. Chaudhari	7984401184	Arjunbhai Rakeshbhai Chaudhari	9898860122
19	Kosamkuva	390	Dharmeshbhai Bharatbhai Chaudhari	9925830595			Aneshbhai Laljibhai Gamit	9586333244
20	Varjakhan	1817	Harishchand Shankarbhai Gamit	9979193805			Hetalbhai Balubhai Gamit	8238955085
21	Gangpur	839	Ramilaben Ajitbhai Chaudhari	9537075396	Kalpeshbhai Chandubhai Gamit	8141684665	Manishbhai Chaudhari	7990041417
22	Behdaraipura	3916	Nilamben Shaileshbhai Patel	9978778102			Jitendhabhai Patel	8469761121
23	Rengankachh	884	Pradipbhai Balubhai Chaudhari	9925663882	Shakuntlaben Khalpabhai Chaudhari	9537876505	Dayaben S. gamit	9586108375
24	Dhanturi	1419	Ajitbhai Fatesinh Gamit	9638731462			Parasottam S. Chaudhari	9600555567
25	Rampuradur	403	Ajitbhai Fatesinh Gamit	9638731462			Ranjanben Chaudhari	9913850139
26	Palasiya	1352	Nileshbhai Natwarlal Chaudhari	9909681366			Sandeep M. Chaudhari	9979983870
27	Palavadi	606	Rajkumar S. Chaudhari	9913661023	Shwetaben Rameshbhai Mojidhra	9825316360	Dharaben Patel	9639445481
28	Mangaliya	925	Chhotubhai Vasai	9313789031			Bakulesbhai Chaudhari	9106685179
29	Garavan	728	Amitaben Vikeshbhai	9664630932			Sahenbhai Vadesingbhai Chaudhari	9825483202
30	Dhamandevi	831	Bipinbhai Rameshbhai	9925370645			Bhavnaben Patel	8160229927
31	Chakdhara	383	Prabhakarbhai S. Gaikwad	9913740609			Ashaben Kokani	9409906296
32	Aambapani	323					Pratimaben Patel	9265036907
33	Kelvan	338					Pratimaben Patel	9265036907
34	Bedchit	1764	Prathikaben R. Chaudhari	9909890413	Punamben d. Bhoje	9265212144	Gitaben Chaudhari	9925896952
35	Bhojpurdur	474					Jayshriben Laljibhai Chaudhari	9978720090
36	Kamlapur	451					Urmilaben Lallubhai Gamit	9316454911
37	Kumbhiya	1827	Hinaben S. Chaudhari	9925425847			Pravinbhai Patel	7874760154
38	Umarkachchh	1651	Ritaben M. Chaudhari	9925956254			Shuthilbhai Pavagadhi	9879590074
39	Panchol	1806	Atulbhai Gamit	9099304035	Pujaben Zarivala	7984776066	Nileshbhai Patel	9978891585

40	Kalkva	3841	Smitakumari S. Patel	9316065096	Bhakti M. Kheni	8160380819	Sudhaben	9978502231
41	Dharampura	442	Smitakumari S. Patel	9316065096			Amarsingbhai	9727957943
42	Dolvan	7179	Ushaben A. Chaudhari	9925395245	Krishnakumari Vajubhai Chaudhari	9265410780	Mukeshbhai B. Patel	9265581984
43	Borkuchchh	876	Nitaben A. Chaudhari	9537492307	Priyankaben P. Patel	9904236646	Isvarbhai K. Patel	9925664847
44	Chunawadi	2025	Chayaben K. Chaudhari	9099295151			Satishbhai A. Chaudhari	9427480712
45	Halmudi	732	Mukeshbhai T. Kokani	9662405473			Maheshbhai Chaudhari	9879812513
46	Amoniya	818		9662405473			Shivabhai Babubhai Rathore	963877040
47	Dungarda	313		9662405473			Pradipbhai Patel	9624087690
48	Raigadh	1386	Shwetaben J. Bhoje	8849358894			Jayeshbhai Parmar	9428717107
49	Padamdungari	1925	Ravindhabhai M. Chaudhari	6352499510			Hirenabhai	9712940484
50	Kalamkui	732	Manishaben Maheshbhai	9909208632	Chaudhari Sureshbhai C.	9909681081	Urmilaben Rameshbhai	9825954965
51	Haripura	690	Anuben Karsanbhai	7874466834			Hemaben Gamit	9429531735
52	Dholka	890	Anuben Karsanbhai	7874466834			Ratilalbhai Jatariabhai Kokani	9825308208
53	Amania	672	Kalaben Dilipbhai	9510302640			Rajeshbhai Kokani	9913435846
54	Asopalav	113	Kalaben Dilipbhai	9510302640			Rajeshbhai Kokani	9913435846
55	Karanjkhed	2225	Maheshbhai Mankubhai Kokani	9979986653	Vipulbhai Arvindbhai Chaudhary	9979976857	Bharatbhai Naginbhai Patel	9428153889
56	Takiamba	2648	Malaybhai Iswarbhai Kokani	9016421436			Sunilbhai Patel	9099742180
57	Besaniya	1329	Shantaben Vinodbhai Kokani	9913860376			Limbashiya Chandkanth Ghelabhai	9574235210
58	Kandha	1466	Pratapbhai Ramabhai Patel	6355783050			Chandsing Naginbhai Gamit	9979279850

## Valod Taluko:-

Sr No.	Village Name	Population	Sarpanch Name & Number	Talati name & Number	School Principal Name & Number
1	Andhatri	3391	Bhavnaben Mineshbhai Dhodiya M.9913799943	Mayurbhai B Chaudhari M.7698953413	Urmilaben R Gamit M.9712255381
2	Ambach	2672	Amrutbhai Sumanbhai Chaudhari M.9099843408	Chintanbhai D Pranami M.7046532365	Dipakbhai Chaudhari M.9913661318
3	Adhyapor	985	Chanchalben Dinesbhai Chaudhari M.7874810300	Ravibhai P Kosiya M.9586963859	Tanaykumar Chaudhari M.9714682326
4	Algat	1681	Nikitakumari Santoshbhai Patel M.9909888414	Harshaben A Sarvaiya M.8780825552	Narehbhai Patel. M.9909452032
5	Inma – Tokarva	874	Sunilbhai Ramanbhai Gamit M.9638615127	Rosniben Rajput M.9099804411	Saileshbhai Chaudhari M.9825719833
6	Knajod	1280	Sandipbhai Ganeshbhai Gamit M.9925133624	Aswinbhai I Patel M.9979353906	Khandubhai Chaudhari M.9925896765
7	Kamalchhod	6430	Rinaben Alpeshbhai Chaudhari M.9537772010	Miteshkumar B Patel M.9924623638	Truptiben A Solanki M.8347227225
8	Kalamkui	2595	Divyeshbhai Rajnikantbhai Gamit M.9626556532	Kishan J Mavshi M.9687311071	Umaben I Chaudhari M.9913209571
9	Kaher	2137	Kankuben Laxmanbhai Chaudhari M.9712971670	Kishan J Mavshi M.9687311071	Smt.Hasuben Chaudhari M.8238157230
10	Kosambiya	974	Viralkumar Bharatbhai Gamit M.8980495548	Harshrajsinh D Gohil Mo.9638001963	Dilipbhai Chaudhari M.98790175779
11	Kumbhiya	1205	Sandipbhai Kanchibhai Chaudhari M.9099847445	Aswinbhai I Patel M.9979353906	Mayuriben Chaudhari M.9726555693
12	Godadha	1146	Tarulattaben Pareshbhai Halpati M.9512441373	Ravibhai P Kosiya M.9586963859	Manubhai Patel M.9687618455

13	Golan	2464	Sakutlaben Satishbhai KokniM.7016341106	B.B.Chauhan M.9586037284	Smt. Bakulaben Chaudhari M.8141589696
14	Dhamodala	2431	Rakeshbhai Babubhai Chaudhari M.6353985361	Nikeshaben K Chaudhari M.9879705159	Smt. Surataben Chaudhari M.9913662313
15	Jamniya	1111	Damyantiben Rajubhai Chaudhari M.9265755540	Harshaben A Sarvaiya M.8780825552	Anilaben Chaudhari M.9586159388
16	Dumkhal	1133	Nileshbhai Chhatubhai Chaudhari M.9926139466	Aswinbhai I Patel M.9979353906	Mukulbhai Chaudhari M.8980878485
17	Titva –Beldha	1140	Prabhubhai Gajabhai Chaudhari M.9825443016	Nileshbhai M Mali Mo.9265447348	Kalpanaben Chaudhari M.9727845114
18	Dadriya	2128	Mahendrabhai Mansukhbhai Gamit M.9727866006	B.B.Chauhan M.9586037284	Smt. Minaben Chaudhari M.9913343369
19	Degama	5350	Ashish BhulabhaiChaudhari M.8320579149	Jignesh R Gamit M.8238242620	Sunilbhai J Chaudhari M.958620101051
20	Delvada	1533	Lilaben Dharmeshbhai Nayka M.6352135086	Sital D Tailor M.9601262606	Bhavikaben Patel M.9979115033
21	Nalotha	1136	VijaybhaiRakeshbhaiChaudhari M.9638765086	Chintanbhai D Pranami M.7046532365	Sureshbhai Chaudhari M.9913787146
22	PeladBuhari	1660	Ranjanben Anilbhai Halpati M.9723623805	Jignesh D Gadriya M.9662680161	Dharmeshkumar M.9638684867
23	Butwada	1333	Priyankakumari Rakeshbhai Solanki M.8000711121	Rosniben Rajput M.9099804411	Sumanbhai Gamit M.9879034232
24	Buhari	5905	Vanitaben Rameshbhai Gamit M.9726210109	Pradipbhai M Gamit Mo.8200677750	Kaminiben Patel M.8980422445
25	Bhimpor	1438	Dixitbhai Gopalbhai Gamit M.9624111175	Harshrajsinh D Gohil Mo.9638001963	Pragneshbhai Parmar Mo.9687619455
26	Mordevi	2051	Ritaben Anilbhai Chaudhari M.7777910839	Aswinbhai I Patel M.9979353906	Dharmeshbhai Patel M.9537976689

27	Ranveri -Bahej	2598	Rajeshbhai Rameshbhai Chaudhari M.9638714133	Harshrajsinh D Gohil Mo.9638001963	Nileshbhai Chaudhari M.9879547076
28	Bedkuva	3416	Vikeshbhai Chandubhai Gamit M.9925656434	Nikeshaben K Chaudhari M.9879705159	Narmadaben Chaudhari M.9925035523
29	Valod	16075	Vijayaben Rahimbhai Naik M.9265124544	Nareshbhai Daliyabhai Gamit Mo.9712782058	Maheshbhai V Vaghasiya M.8000901620
30	Virpor	1554	Ashaben Rohitbhai Chaudhari M.6354365533	Jignesh D Gadriya M.9662680161	--
31	Vedchhi	2750	Rahulbhai Kalyanbhai Chaudhari M.9106991959	Chintanbhai D Pranami M.7046532365	Arjunbhai Gamit M.9427987302
32	Shahpor– Nansad- Khambhala	1647	Ashaben Dalpatbhai Chaudhari M.9099293288	Anju Jaysinh Chaudhari M.9512589310	Dharmeshbhai Chaudhari M.9727405685
33	Shiker	2623	Priyankaben Rajeshbhai Dhodiya M.9601262606	Sital D Tailor M.9601262606	Diptiben Patel M.8980065700
34	Syadla	1999	Ushaben Vinodbhai Halpati M.9979682332	Nileshbhai M Mali Mo.9265447348	Pareshsinh Parmar M.9825176223
35	Hathuka	1721	Snehalkumari Yogeshbhai Dhangar M.9712831558	Manglaben F Gamit Mo. 6354713020	Parimalbhai Chaudhari M.9913383666

## Songadh Taluko-

S,n	VILLAGE	POPULATION	SARPANCH NAME	MO.NO	TALATI NAME	MO.NO	SCHOOL PRINCIPAL NAME	MO.NO
1	DHAMODI	2665	Rekhaben Anilbhai Gamit	9726006390	A.P.JAGTAP	9825851520	KANTABEN J GAMIT	8141334747
2	GHASHIYAMEDHA	1962	Deepikaben Ishwarbhai Chaudhary	9023056363	H.B.CHAUDHARI	9687069020	DHARMESHBHAI M CHAUHARI	9979391530
3	PIPADKUVA	2690	Dipteshbhai Manubhai Gamit	9714851780	R.P.DAMOR	8141372795	SUMANBHAI A GAMIT	9913209652
4	TOKARVA	3390	Savitaben Dharmeshbhai Gamit	9095303008	TRUPTIKABEN	7359919842	NILESHBHAI C CHAUDHARI	8238764347
5	GAYSAVAR	575	Akulaben Shukriyabhai Gamit	9316413014	TRUPTIKABEN	7359919842	PRITIBEN RAMSINGBHAI GAMIT	7069526919
6	BALAMRAI	219	Akulaben Shukriyabhai Gamit	9316413014	TRUPTIKABEN	7359919842	PRITI N GAUTAM	9687371473
7	CHAPALDARA	289	Akulaben Shukriyabhai Gamit	9316413014	TRUPTIKABEN	7359919842	NAVINBHAI T GAMIT	9979499753
8	KHARSHI	1520	Mahimaben Ravindrabhai Gamit	9925595428	M.C.CHAUDHARI	9898730913	HARSHADBHAI S DHODIYA	8000687757
9	BEDPADA	553	Mahimaben Ravindrabhai Gamit	9925595428	M.C.CHAUDHARI	9898730913	SHILABEN R GAMIT	9925105669
10	VADPADA PRA.TOKARVA	505	Anilbhai Raisingbhai Gamit	926555069	S.I.GAMIT	6355579500	RASHIKBBHAI C GAMIT	8160150336
11	SANDHAKUVA	747	Anilbhai Raisingbhai Gamit	926555069	S.I.GAMIT	6355579500	ASHAVINBHAI H GAMIT	9879793608
12	GHANCHIKUVA	582	Anilbhai Raisingbhai Gamit	926555069	S.I.GAMIT	6355579500	GANGESHVARI C GAMIT	9913858344
13	JAMANKUVA	673	Anilbhai Raisingbhai Gamit	926555069	S.I.GAMIT	6355579500	SAILESHSINH H RATHOD	9979334758
14	JUNVAN	748	Bhavnaben Sanjaybhai	9913037163	P.B.PARMAR	9558164779	ASHABEN S GAMIT	9106901959
15	MAHUDI	413	Bhavnaben Sanjaybhai	9913037163	P.B.PARMAR	9558164779	MAHENDRABHAI B CHAUDHARI	9512801056
16	HANUMANTIYA	1074	Bhavnaben Sanjaybhai	9913037163	P.B.PARMAR	9558164779	RUVAJIBHAI D GAMIT	9879545746
17	TICHAKIYA	644	Bhavnaben Sanjaybhai	9913037163	P.B.PARMAR	9558164779	PATEL KAILASBEN VESTABHAI	9033933425

18	BANDHARPADA	1475	Snehaltaben Ishwarbhai Chaudhary	8469470605	R.J.PARMAR	9662014463	NARENDRAKUMAR G CHAUDHARI	9925694315
19	GATADI	743	Snehaltaben Ishwarbhai Chaudhary	8469470605	R.J.PARMAR	9662014463	GAMIT JEETUBHAI DEVJIBHAI	9687152520
20	MEDHA	1230	Ravinaben Vinodbhai Gamit	7990285710	Z.H.GOSWAMI	9979984141	GAMIT MAGANBHAI SUPADIYABHAI	7878762525
21	HINDALA	801	Ravinaben Vinodbhai Gamit	7990285710	Z.H.GOSWAMI	9979984141	GAMIT JITESHKUMAR GULJIBHAI	7984489284
22	AKAVAGOLAN	124	Ravinaben Vinodbhai Gamit	7990285710	Z.H.GOSWAMI	9979984141	PRAVINBHAI D GAMIT	9978192160
23	SHRAVANIYA	786	Raisingbhai Shivajibhai Gamit	9510603022	Z.H.GOSWAMI	9979984141	GAMIT SANGITABEN MANUBHAI	7046315039
24	OJHAR	456	Raisingbhai Shivajibhai Gamit	9510603022	Z.H.GOSWAMI	9979984141	GAMIT RAMESHBHAI RUVAJIBHAI	9265613790
25	LOVECHALI	429	Raisingbhai Shivajibhai Gamit	9510603022	Z.H.GOSWAMI	9979984141	SUMANBHAI S GAMIT	6354853934
26	NANATARPADA	288	Raisingbhai Shivajibhai Gamit	9510603022	Z.H.GOSWAMI	9979984141	ZINABHAI JAMSABHAI GAMIT	9265159365
27	KANTI	394	Raisingbhai Shivajibhai Gamit	9510603022	Z.H.GOSWAMI	9979984141	GAMIT RANGITKUMAR HARJIBHAI	9099675911
28	KHADI	548	Raisingbhai Shivajibhai Gamit	9510603022	Z.H.GOSWAMI	9979984141	RAMILA SAGABHAI GAMIT	6354584259
29	DOSVADA	3971	Sumitraben Jitendrabhai Gamit	9726287444	R.C.DODIYA	8320000547	GAMIT SHIRISHBHAI MANABHAI	9879450026
30	CHORVAD	1863	Manishbhai Lallubhai Gamit	8238361437	J.A.CHAUDHARI	9023451486	GAMIT VASANJIBHAI BHILIYABHAI	8980685481
31	DEVALPADA	421	Manishbhai Lallubhai Gamit	8238361437	J.A.CHAUDHARI	9023451486	SANGITABEN N CHAUDHARI	8141076732
32	RANIAMBA	2707	Hemlataben Shankarbhai Gamit	9574722337	J.S.RAVAL	7874229280	BHAVINGIRI S GOSAI	8306587856
33	AMBA	1044	Rahulbhai Pilajibhai Gamit	7016222037	J.M.HADIYA	9586551852	CHANDUBHAI VECHIYABHAI GAMIT	9662541541
34	SINGALKHANCH	945	P.P. MER	9909530111	M.N.DAMOR	9638570254	CHUDHARI KAUSHALKUMAR	9727192343



							DEVENDRABHAI	
35	RAMPURA	584	Rahulbhai Pilajibhai Gamit	7016222037	J.M.HADIYA	9586551852	GOVINDBHAI S GAMIT	9879295050
36	KANADEV	247	Rahulbhai Pilajibhai Gamit	7016222037	J.M.HADIYA	9586551852	JAYABEN F GAMIT	9913216982
37	UKAI	3034	P.P. MER	9909530111	M.N.DAMOR	9638570254	PARBATSINH M MER	9913459636
38	BHIMPURA	3389	P.P. MER	9909530111	M.N.DAMOR	9638570254	AVINASHBHAI A GAMIT	9979511231
39	BHURIVAL	5730	P.P. MER	9909530111	M.N.DAMOR	9638570254	CHAUDHARI PRAGNAKUMARI BALLUBHAI	9879221238
40	PATHARDA	1507	P.P. MER	9909530111	M.N.DAMOR	9638570254	VIJUBHAI D VASAVA	7698500936
41	VAGDA	1632	R.P.DAMOR	8141382795	M.N.DAMOR	9638570254	TEJANABEN R PATEL	9316039020
42	CHIMKUVA	1177	ANITABEN DODHIYA	9687967772	R.M.GAMIT	9099451580	PRADIPBHAI R CHAUDHARI	9979131229
43	CHAPAVADI	913	ANITABEN DODHIYA	9687967772	R.M.GAMIT	9099451580	JAYANTILAL M GAMIT	9925948300
44	DON	678	ANITABEN DODHIYA	9687967772	R.M.GAMIT	9099451580	GAMIT HARISHBHAI REVABHAI	9510518081
45	KHOKHASA	260	ANITABEN DODHIYA	9687967772	R.M.GAMIT	9099451580	ASHAVINBHAI B GAMIT	9909493752
46	RAMPURA KOTHAR	260	ANITABEN DODHIYA	9687967772	R.M.GAMIT	9099451580	ALBINABEN M GAMIT	9586713663
47	ZARALI	771	R.M.GAMIT	9099451580	N.N.CHAUDHARI	7990280131	JAGDISHBHAI P GAMIT	9925155668
48	TARSADI	974	R.M.GAMIT	9099451580	N.N.CHAUDHARI	7990280131	GOPICHANHAI G GAMIT	7622919022
49	KUKARZER	308	R.M.GAMIT	9099451580	N.N.CHAUDHARI	7990280131	ROHITBHAI R GAMIT	9978778267
50	NANI BURVAN	72	R.M.GAMIT	9099451580	N.N.CHAUDHARI	7990280131	SARLABEN NAVINBHAI GAMIT	9099945534
51	MOTI BHURVAN	215	R.M.GAMIT	9099451580	N.N.CHAUDHARI	7990280131	SARLABEN N GAMIT	9099945534
52	OTA	802	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	NILABEN N GAMIT	9106212051
53	TAPARVADA	1246	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	VIRPALBHAI V VALA	9924641202
54	MASANPADA	601	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	GAMIT DINESHBHAI VASANBHAI	9537489902

55	TEMKA	366	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	NANUBHAI G GAMIT	9879782827
56	UMARDA	654	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	SADANADBHAI J GAMIT	9727513890
57	DARDI	171	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	JUMABHAI N CHAUDHARI	6355991037
58	GHANMOLI	723	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	NAVINBHAI E GAMIT	9909161667
59	BORPADA	651	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	KARSANBHAI P GAMIT	9909425868
60	SALZER	128	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	IDALJIBHAI M GAMIT	7874717706
61	AMATHAVA	215	R.C.DODIYA	8320000547	K.K.PARMAR	9913485057	UKAJIBHAI S GAMIT	9624670749
62	UKHALDA	3124	S.H.RATHOD	9925896982	B.B.CHAUDHARI	9978476869	PANKAJBHAI N CHAUDHARI	9879849466
63	KAVLA	528	S.H.RATHOD	9925896982	B.B.CHAUDHARI	9978476869	GAMIT VILASBEN RAVJIBHAI	6352128069
64	KELAI	1285	S.H.RATHOD	9925896982	B.B.CHAUDHARI	9978476869	SARLABEN NAVINBHAI GAMIT	9099945534
65	ZADPATI	362	S.H.RATHOD	9925896982	B.B.CHAUDHARI	9978476869	MANHARBHAI R CHAUDHARI	9428629828
66	GALKHADI	629	S.H.RATHOD	9925896982	B.B.CHAUDHARI	9978476869	REVJIBHAI J CAHUDHAIR	9909493658
67	KHADAKACHIKHALI	1251	Rinaben Bpinbhai Gamit	9913329330	P.S.CHAUDHARI	9913025852	CHAUDHARI SHASHIKALABEN RAMANBHAI	9712782593
68	KANALA	1140	Tarunbhai Chandubhai Gamit	9537471711	P.S.CHAUDHARI	9913025852	CHAUDHARI VAISHALIBEN RAMESHBHAI	9913638155
69	DHAJAMA	3146	Ramilaben Machabhai Chaudhary	7079006733	A.S.GAMIT	9727169869	CHAUDHARI NAVJIBHAI MANCHHABHAI	9825941176
70	BEDVAN PRA BHESROT	604	Gitaben Rahulbhai Gamit	9638767840	A.S.GAMIT	9727169869	MOHANBHAI H GAMIT	9106637328
71	JAMAPUR	1314	Chunilal Jinabhai Gamit	7874637878	M.B.SISARA	8238442944	PRASHANTBHAI N	9913319494

							GAMIT	
72	VELZAR	874	Ambubhai Devsingbhai Chaudhari	9909630725	M.B.SISARA	8238442944	BHARATBHAI M GOLVADIYA	9825057447
73	MANDAL	2208	Anandiben Jashwantbhai Gamit	9664766904	A.G.GAMIT	8238650076	LALITABEN B PATEL	9727062065
74	KHAMBHALA	712	Anandiben Jashwantbhai Gamit	9664766904	A.G.GAMIT	8238650076	SURENDRABHAI Z GAMIT	9925138344
75	CHAKLIYA	1538	Rasitbhai Ramanbhai Gamit	9512152833	A.G.GAMIT	8238650076	SUDHAKARBHAI B GAMIT	9979511616
76	AGASHAVAN	2183	Ruthben Ranjitbhai Gamit	9106999355	A.V.GAMIT	9099595063	GIRISHBHAI V CHAUDHARI	9978162627
77	BEDI	1496	Fansis Janiyabhai Gamit	9265986631	A.V.GAMIT	9099595063	GAMIT MOHANBHAI HOMJIBHAI	9106637328
78	CHIKHALI BHESROT	1749	Ruchitaben Roshanbhai Gamit	9426483773	A.V.GAMIT	9099595063	HARSHABEN C JADAV	9427472586
79	MALANGDEV	1932	Bhuljibhai Mungabhai Gamit	9773102321	J.V.PARMAR	7016893792	GAMIT RAJESHBHAI KALUBHAI	9016022140
80	KARVANDA	456	Bhuljibhai Mungabhai Gamit	9773102321	J.V.PARMAR	7016893792	SURESHBHAI S GAMIT	9265428054
81	VIRTHAVA	534	Bhuljibhai Mungabhai Gamit	9773102321	J.V.PARMAR	7016893792	GAMIT KALPESHBHAI SAMJIBHAI	9586858512
82	KHAPATIYA	306	Bhuljibhai Mungabhai Gamit	9773102321	J.V.PARMAR	7016893792	SARDABEN J GAMIT	9016345353
83	MOHPADA	161	Bhuljibhai Mungabhai Gamit	9773102321	J.V.PARMAR	7016893792	UMESHBHAI BALUBHAI GAMIT	9016589700
84	GOLAN	95	Bhuljibhai Mungabhai Gamit	9773102321	J.V.PARMAR	7016893792	GAMIT RAJESHBHAI KALUBHAI	9016022140
85	CHIMER	2780	Sharmilaben Dilipbhai Gamit	9574278707	J.V.PARMAR	7016893792	GAMIT BACHUBHAI FULJIBHAI	9429866014
86	MOGHAVAN	2083	Sunilbhai Lovejibhai Gamit	9978778265	K.D.GAMIT	8469627830	HITESHBHAI K PATEKHA	9925051556
87	MAIYALI	737	Sunilbhai Lovejibhai Gamit	9978778265	K.D.GAMIT	8469627830	GAMIT BACHUBHAI FULJIBHAI	9429866014
88	KALAGHAT	694	Sunilbhai Lovejibhai Gamit	9978778265	K.D.GAMIT	8469627830	MANHARBHAI D GAMIT	9879881633

89	MOTA SATSHILA	144	Sunilbhai Lovejibhai Gamit	9978778265	K.D.GAMIT	8469627830	GARASIYA GANPATBHAI GOVINDBHAI	8980982202
90	GHODIRUVADI	643	Sunilbhai Lovejibhai Gamit	9978778265	K.D.GAMIT	8469627830	GULJIBHAI BABUBHAI GAMIT	9825380337
91	BORKUVA	878	Sunitaben Gonvidbhai Gamit	8980125672	SMT. K.D.GAMIT	8469627830	RAJESH KUMAR GOMABHAI GAMIT	9879676659
92	SHISOR	2011	Pramitaben Jitendrabhai Chaudhary	7574835148	H.M.PATEL	8469298451	DIRUBHAI L CHAUDHARI	8980432395
93	BHANPUR	382	Pramitaben Jitendrabhai Chaudhary	7574835148	H.M.PATEL	8469298451	CHAUDHARI INDUBEN KARSANBHAI	9978173775
94	VAZARDA	2405	Jashuben Gomabhai Gamit	9925696007	R.R.GAMIT	9638926848	PAULKUMAR B PATEL	9879545576
95	PANCHAPIPALA	1494	Anilbhai Jayantibhai Chaudhary	9537451017	R.R.GAMIT	9638926848	RAVINDRABHAI F GAMIT	8758411666
96	SADALWEL	979	Ajitbhai Surjibhai Gamit	9909681348	A.A.GAMIT	9106486045	GAMIT BHARTIBEN BABUBHAI	9978502223
97	KANJI	690	Ajitbhai Surjibhai Gamit	9909681348	A.A.GAMIT	9106486045	GAMIT MARTHABEN NAVALIYABHAI	9979335299
98	JAMKHADI	1468	Premilaben Manishbhai Gamit	9537434629	A.N.DODHIYA	9687967772	CHANDUBHAI VECHYABHAI GAMIT	9662541541
99	BHARADDA	1049	Mukeshbhai Kishanbhai Gamit	8000435005	A.N.DODHIYA	9687967772	SHAILESHBHAI S GAMIT	9979345076
100	SINGPUR	2389	Sangeetaben Vikrambhai Gamit	7572832344	J.R. JHAPADIYA	8000367852	PIYUSHKUMAR D PAREKH	9909648616
101	BORISAVAR	543	Sangeetaben Vikrambhai Gamit	7572832344	J.R. JHAPADIYA	8000367852	CHHANABHAI H CHAUDHARI	7487874748
102	VAGHANERA	1872	Anandiben Vinodbhai Gamit	6355192582	K.K.GAMIT	9925703566	VINABHAI B GAMIT	9879788826
103	VEKUR	874	Vijaybhai Rupsingbhai Gamit	9726206271	K.K.GAMIT	9925703566	HASMUKHBHAI HIMJIBHAI CHAUDHARI	9979484266
104	HIRAVADI	1232	Bhagubhai Saradiyabhai Gamit	9726020122	S.S.VALVI	9727541610	PARMAR DILIPSINH BALUBHAI	9638888087
105	BEDVAN PRA UMERDA	593	Bhagubhai Saradiyabhai Gamit	9726020122	S.S.VALVI	9727541610	VIJAYBHAI G GAMIT	9726556071
106	MEDHASINGI	1083	Jayeshbhai Laxmanbhai Gamit	9099485750	S.S.VALVI	9727541610	SHAILESHBHAI	8511272859

							GAMANBHAI PATEL	
107	GOPALPURA	1787	Hemaben Vinubhai Vasava	9665653127	N.K.SONVANE	7990369770	MAKWANA H DHANJIBHAI	8238969797
108	VADPADA PRA UMARDA	1201	Sumitraben Ranchodbhai Kokani	9586980466	N.K.SONVANE	7990369770	HITESHKUMAR KIRITBHAI PAREKH	9925051556
109	KIKAKUI	2628	Prashantbhai Avinashbhai Patel	9999770143	Y.D.GAMIT	9825649177	JAYSHIRBEN S CHAUDHARI	9913661288
110	ACHALVA	644	Prashantbhai Avinashbhai Patel	9999770143	Y.D.GAMIT	9825649177	PRAKASHKUMAR MAGANBHAI SOLANKI	9712357647
111	SADALKUVA	1323	Sadakbhai Chimanbhai Gamit	635299925	Y.D.GAMIT	9825649177	PRABHABEN CHIMANBHAI GAMIT	9825381036
112	BEDVAN KHADKA	468	Sadakbhai Chimanbhai Gamit	635299925	Y.D.GAMIT	9825649177	JAYESHBHAI H GAMIT	9638051800
113	NISHANA	1803	Miraben Devlabhai Gamit		SMT D.S.GAMIT	9510880607	RANA HARISHBHAI GANESHBHAI	9724023656
114	AMALGUNDI	2086	Vanitaben Dhuljibhai Gamit	9726456392	K.K.PARMAR	9913485057	NARSINHBHAI RUVAJIBHAI GAMIT	9879241622
115	VANZAFALI	368	Vanitaben Dhuljibhai Gamit	9726456392	K.K.PARMAR	9099451580	GAMIT SURESHBHAI GULABBHAI	9979484418
116	CHAKVAN	824	Vanitaben Dhuljibhai Gamit	9726456392	K.K.PARMAR	9099451580	RUMSHIBHAI M GAMIT	9879547319
117	KAKADKUVA PRA UMARDA	709	Ziniben Manojbhai Gamit	9979387042	K.K.PARMAR	9099451580	RAJNISHKUMAR RAMESHBHAI	9727879421
118	KUKADADUNGARI	568	Ziniben Manojbhai Gamit	9979387042	K.K.PARMAR	9099451580	NILESHBHAI LALJIBHAI GAMIT	9712302344
119	GUNKHADI	1097	Kailashben Rameshbhai Gamit	9769558397	C.G.AHIRRAV	9016220756	ARVINDBHAI M GAMIT	9879773102
120	RASMATI	236	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	DIVYESHBHAI RAMANBHAI PATEL	9727914062
121	MAL	583	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	NAYNABEN L PATEL	6352081914
122	GHUSARKAM	769	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	GAMIT PANKAJKUMAR SHANKARBHAI	8980584282
123	PAHADADA	649	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	DIVYESHBHAI RAMANBHAI PATEL	9727914062
124	SHINOD	498	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	GAMIT SUNITABEN BHULABHAI	9638678269

125	BHORTHAVA	678	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	ANITABEN M PATEL	9773490574
126	LANGAD	330	Vanitaben Anajibhai Gamit	6354953199	H.L. RATHOD	9727797515	CHAUDHRI VIBHUTIKUMARI R	8141207045
127	SADDHUN	1209	Ashwinbhai Mirajibhai Gamit	9106691934	B.N.VASA	7802838176	KALPANABEN SUKARIYABHAI GAMIT	9727880928
128	AMLIPADA	1173	Vineshbhai Ratilalbhai Gamit	9687519919	M.M. VASAVA	7069158460	DHANSUKHBHAI KANTILAL PATEL	8141796896
129	MOTIKHERVAN	2509	Ranjitbhai Chitiyabhai Gamit	6354026655	M.M. VASAVA	7069158460	DILIPKUMAR J CHOHAN	9374945818
130	DUMDA	2164	Ramilaben Virjibhai Gamit	9726207307	M.M. VASAVA	7069158460	PREMILABEN JASHVANTBHAI GAMIT	9978193231
131	GUNSADA	5328	Yashodaben Kishanbhai Gamit	9537593421	S.H.RATHOD	9925897982	JAYNATBHAI J VASAVA	9427126669
132	KHANJAR	1833	Elinaben Mansinghbhai Gamit	9316340961	K.V.AHIR	9825833139	RAMILABEN C GAMIT	9537488942
133	POKHARAN	551	Elinaben Mansinghbhai Gamit	9316340961	K.V.AHIR	9825833139	TARUNABEN J CHAUDHAIR	9687896902
134	RUPVADA	686	Elinaben Mansinghbhai Gamit	9316340961	K.V.AHIR	9825833139	AVESHAYABHAI J GAMIT	9427126964
135	KAKADKUVA	756	Elinaben Mansinghbhai Gamit	9316340961	K.V.AHIR	9825833139	SURESHBHAI SUKARIYABHAI GAMIT	9265428054
136	KUMKUVA	1490	Nazinaben Rakeshbhai Gamit	9879718831	MUNNA MAKWANA	9974316926	VIJAYBHAI BABUBHAI VASAVA	9979391448
137	GALKUVA	1725	Rajeshbhai Vajesingbhai Gamit	9726555114	B.R.RANA	9016251515	VIRENDRABHAI MAGANBHAI GAMIT	9925852415
138	GHODCHIT	1302	Shardaben Dilipbhai Gamit	7567963671	M.D. GAMIT	8154012802	PRATIKKUMAR G PATEL	9909221274
139	GHODA	1603	Jashaniben Mohanbhai Gamit	8758703208	A.D.GAMIT	6354974916	GAMIT NANDABHAI NAPURYABHAI	9099848386
140	VADDA PRA BHESROT	699	Jashaniben Mohanbhai Gamit	8758703208	A.D.GAMIT	6354974916	ARVINDKUMAR ARJUNBHAI	9714189143
141	VADIBESROT	2750	Pannaben Alpeshbhai Gamit	9913494879	ROBIN GAMIT	9586111162	PRITIBEN H BHAVSAR	9662164833
142	NANIKHERVAN	918	Sunilbhai Madhubhai Gamit	9978192106	ROBIN GAMIT	9586111162	PUSPABEN S GAMIT	9924830793
143	GHUTVEL	643	Ritaben Ajitbhai Gamit	9727519160	J.P.GAMIT	9638368083	SANKARBHAI P GAMIT	9638935129
144	KHOGALGAM	830	Ritaben Ajitbhai Gamit	9727519160	J.P.GAMIT	9638368083	JAYABEN M CHAUDHARI	9638371719

145	VADDA PRA UMARDA	562	Ritaben Ajitbhai Gamit	9727519160	J.P.GAMIT	9638368083	YAMUVELBHAI A GAMIT	9909883578
146	VADI RUPGADHA	534	Ritaben Ajitbhai Gamit	9727519160	J.P.GAMIT	9638368083	AMRUTBHAI G GAMIT	9925694622
147	KAPADBANDHA	402	Ritaben Ajitbhai Gamit	9727519160	J.P.GAMIT	9638368083	MAHENDRABHAI H GAMIT	9979281475
148	SHIRISHPADA	712	Ritaben Ajitbhai Gamit	9727519160	J.P.GAMIT	9638368083	YUNABHAI S GAMIT	9727363783
149	CHIKHALPADA	323	Ritaben Ajitbhai Gamit	9727519160	J.P.GAMIT	9638368083	GAMIT RAIMABEN JAMSINGBHAI	9427722988
150	MOTATARPADA	1177	Sumitraben Hirjibhai Gamit	9537489297	J.P.GAMIT	9638368083	RAJUBHAI R GAMIT	9428875713
151	KHERVADA	1979	Maheshbhai Amarsingbhai Vasava	7203038659	S.S.GAMIT	7990285017	MULAJIBHAI R VASAVA	9925328673
152	SHINGALVAN	539	Maheshbhai Amarsingbhai Vasava	7203038659	S.S.GAMIT	7990285017	VALVI INDRAJITBHAI KALABHAI	9099552091
153	SAMARKUVA	451	Maheshbhai Amarsingbhai Vasava	7203038659	S.S.GAMIT	7990285017	VASAVA SINGABHAI GERIYABHAI	8140231968
154	BHATVADA	943	Rajeshbhai Gomabhai Vasava	9913794811	S.S.GAMIT	7990285017	NAYANABEN BIMABHAI VASAVA	9537489687
155	JUNAI	252	Rajeshbhai Gomabhai Vasava	9913794811	S.S.GAMIT	7990285017	GAMIT RAJESHBHAI CHUNILAL	9727881666
156	NINDVADA	1078	Vechyabhai Sevalabhai Vasava	9510294720	S.S.GAMIT	7990285017	RAJENDRABHAI B CHAUDHARI	8141274260
157	AJVAR	162	Vechyabhai Sevalabhai Vasava	9510294720	S.S.GAMIT	7990285017	NITESHBHAI K GAMIT	9714505949
158	AMALDI	101	Vechyabhai Sevalabhai Vasava	9510294720	S.S.GAMIT	7990285017	NITESHBHAI K GAMIT	9714505949
159	LIMBI	2808	Suthaben Ramanbhai Gamit	9099831887	S.S.GAMIT	7990285017	MAVJIBHAI R BAMBHAIDIYA	9979013365
160	SHERULA	2086	Suthaben Ramanbhai Gamit	9099831887	S.S.GAMIT	7990285017	GARJIBHAI S VASAVA	9925369003
161	AMALPADA	1299	S.H.RATHOD	9925896982	G.B.LABDA	8758341003	KETANBHAI CHAUDHARI	9727451104

162	KUILIWEL	584	S.H.RATHOD	9925896982	G.B.LABDA	8758341003	KAVITABEN CHANDUBHAI	9978896594
163	BAVLI	355	Rustanbhai Kathabhai Vasava	6355461323	G.B.LABDA	8758341003	KHANSING C CHAUDHARI	9537188615
164	ZARIAMBA	1082	Rustanbhai Kathabhai Vasava	6355461323	G.B.LABDA	8758341003	GANGARAMBHAI K VASAVA	9913233342
165	BORDA	3177	Gangaben Sunilbhai Vasava	9979665663	G.B.LABDA	8758341003	ARJUNBHAI G VASAVA	9638664007
166	VAJPUR	938	Meeraben Maganbhai Vasava	8980923701	G.B.LABDA	8758341003	ABHESING R VASAVA	9913228715
167	OTA PRA TOKARVA	67	RIPKABEN M. GAMIT	9099451580	N.N.CHAUDHARI	7990280131	NILESHBHAI C CHAUDHARI	8238764347
168	GUNDI	960	Rustanbhai Kathabhai Vasava	6355461323	G.B.LABDA	8758341003	VIJAYBHAI P PATEL	9099464555
169	SARJAMBALI	688	Vechyabhai Sevalabhai Vasava	9510294720	G.B.LABDA	8758341003	PATEL NITESHBHAI MANHARBHAI	9913779718
170	AMALI	1319	Anilbhai Limjibhai Gamit	9773247552	SMT. D.S.GAMIT	9510880607	NAVNEETBHAI BABUBHAI	7874699232
171	SEGUPADA	3390	Savitaben Dharmeshbhai Gamit	9095303008	TRUPTIKABEN	7359919842	PINABEN BABURAV GAMIT	9825963678
172	NANA BANDHARPDA	608	Rahulbhai Pilajibhai Gamit	7016222037	J.M.HADIYA	9586551852	GAUTAMBHAI ZAVREBHAI	9427176851
173	PAGHADDHUVA	846	S.H.RATHOD	9925896982	G.B.LABDA	8758341003	BALKRUSHNBHAI THAKORBHAI GAMIT	9913593440
174	BUDHVADA	736	B.B.CHAUDHARI	9978476869	G.B.LABDA	8758341003	ATULBHAI RATILAL CHAUDHARI	9727811371
175	SATKASHI	1168	S.H.RATHOD	9925896982	G.B.LABDA	8758341003	RATILAL GIMBABHAI VASAVA	9099849068
176	MANDVIPANI	869	S.H.RATHOD	9925896982	G.B.LABDA	8758341003	GHEMABHAI MOGABHAI VASAVA	9726291168



## Uchchhal Taluko-

Sr No	Village name	Population	Sarpanch		Talati		School Principal	
			Name	Mobile number	Name	Mobile number	Name	Mobile number
1	PANKHARI	1183	Kamleshbhai Jatariyabhai Gamit	9925814357	Umakant J.Valvi	9016743905	Kalpnaben Makabhai Choudhari	9978778012
2	MIRKOT	1707	Sharuben Aravindbhai Gamit	8200559801	Umakant J.Valvi	9016743905	Yohanbhai Balubhai Gamit	9925897658
3	PARCHULI	865	Balubhai Babubhai Gamit	9925538067	Umakant J.Valvi	9016743905	Banshibhai Kikabhai Gamit	9427653787
4	THUTI	1752	Balubhai Babubhai Gamit	9925538067	Umakant J.Valvi	9016743905	Umdabhai Shukariyabhai Gamit	9925105854
5	ABHANKUVA(JAMNE)	1038	Balubhai Babubhai Gamit	9925538067	Umakant J.Valvi	9016743905	Taganiyabhai Gamanbhai Gamit	7567482347
6	BHADBHUNJA	4166	Jainaben Virsingbhai Vasava	9687622857	Aannd A.Gamit	8238805472	Sandeep Rameshabhaai Panchal	9924356080
							Jaytrabhai Shivrubhai Gamit	9909427036
7	ZARANPADA	1243	Aravindbhai Shantilalbhai Gamit	9664547239	Aannd A.Gamit	8238805472	Gamit Jyotiben Limjibhai	8758559341
8	ANANDPUR	2192	Pravinbhai Daulatbhai Gamit	9687008003	J.V.Aahir	787833272	Gamit Rameshbhai Rubjibhai	9979510275
9	NANCHHAL	722	Pravinbhai Daulatbhai Gamit	9687008003	J.V.Aahir	787833272	Padvi Gitaben Arunbhai	7567597483
10	SELUD	1697	Pravinbhai Daulatbhai Gamit	9687008003	J.V.Aahir	787833272	Gamit Vinubhai Lachhiyabhai	9979652469
11	JAMKI	1174	Pravinaben Sunilbhai Gamit	9687058108	J.V.Aahir	787833272	Gamit Shatishbhai Simabhai	9979146692

12	VADDEKHURD	1262	Pravinaben Sunilbhai Gamit	9687058108	J.V.Aahir	787833272	Parimalbhai Rameshabhai Valvi	9825528999
13	MOGALBARA	777	Pravinaben Sunilbhai Gamit	9687058108	J.V.Aahir	787833272	Dattubhai Rekiyabhai Gamit	9726020102
14	LIMBASOTI	642	Pravinaben Sunilbhai Gamit	9687058108	J.V.Aahir	787833272	Shantilal Ravjibhai Valvi	9687750796
15	PETHAPUR	587	Pravinaben Sunilbhai Gamit	9687058108	J.V.Aahir	787833272	Suvarnaben Samabhai Vasava	9624390494
16	SAKARDA	1104	Ganpatbhai Radhubhai Gamit	9638348433	Nishaben C.Vasava	8469800040	Gamit Gamabhai Chhipatiyabhai	9979760451
17	DHAJ	349	Ganpatbhai Radhubhai Gamit	9638348433	Nishaben C.Vasava	8469800040	Gamit Dattubhai Bapubhai	9099457548
18	SASA	492	Ganpatbhai Radhubhai Gamit	9638348433	Nishaben C.Vasava	8469800040	Ravindrabhai Nuriyabhai Gamit	9099101707
19	NURABAD	502	Ganpatbhai Radhubhai Gamit	9638348433	Nishaben C.Vasava	8469800040	Gamanbhai Tukadiyabhai Gamit	9909207085
20	KATASVAN	2699	Shilaben Rajeshbhai Gamit	8980090126	Nishaben C.Vasava	8469800040	Patel Kalpnaben Shanmukhabhai	9099252408
21	BHINTKHURD	1683	Bipinbhai Kikabhai Gamit	9727907279	Nishaben C.Vasava	8469800040	Vasava Anilbhai Motiyabhai	9714280777
22	VADPATAL	665	Bipinbhai Kikabhai Gamit	9727907279	Nishaben C.Vasava	8469800040	Gamit Lataben Kemanjibhai	9099110690
23	RAVJIBUNDA	771	Bipinbhai Kikabhai Gamit	9727907279	Nishaben C.Vasava	8469800040	Sharmilaben Bakulbhai Gamit	9638450320
24	UCHCHHAL	4182	Ritaben Ishvarbhai Dhodiya	8849021727	Bhavesh D.Patel	8153833445	Arvindbhai Janiyabhai Gamit	9925026990
							DHULJIBHAI.S.VASAVA	9979778879
							Palitaben Babarbhai Choudhari	9638131489

25	MANEKPUR	1426	Bipinchandra Vijaybhai Naik	9979281581	Bhavesb D.Patel	8153833445	DHIRUBHAI VASAVA	8140958291
26	SUNDARPUR	2211	Bipinchandra Vijaybhai Naik	9979281581	Bhavesb D.Patel	8153833445	Gamit Anilbhai Maganbhai	9979391397
27	KACHALI	260	Bipinchandra Vijaybhai Naik	9979281581	Bhavesb D.Patel	8153833445	Pinkalbhai Vinodabhai Gamit	9099684804
28	KHABDA	1779	Radhikaben Jayantbhai Vasava	8780542485	Anjanaben V.Gamit	9925625556	Ilaben Laljibhai Gamit	9727872410
29	BABARGHAT	1809	Radhikaben Jayantbhai Vasava	8780542485	Anjanaben V.Gamit	9925625556	Atulkumar Bakaram Naik	6356264103
30	BHINTBUDRAK	2481	Rakinbhai Gemansingbhai Valvi	9537458939	Anjanaben V.Gamit	9925625556	Ganeshbhai Kathudiyabhai Vasava	9909839854
31	HARIPUR	951	Rakinbhai Gemansingbhai Valvi	9537458939	Anjanaben V.Gamit	9925625556	Surani Sangitaben Govindbhai	9913656709
32	CHHAPTI	1255	Manubhai Gebubhai Vasava	9727796075	Divyaben P.Choudhari	9687844938	Sumanbhai Nibiyabhai Gamit	9825443669
33	KAMLAPUR	455	Manubhai Gebubhai Vasava	9727796075	Divyaben P.Choudhari	9687844938	Parimalbhai Rameshabhai Valvi	9825528999
34	CHIKHALI		Manubhai Gebubhai Vasava	9727796075	Divyaben P.Choudhari	9687844938	Parimalbhai Rameshabhai Valvi	9825528999
35	GAVAN	1551	Bebiben Jalamsingbhai Vasava	7990115509	Harshad M.Katariya	9099111151	Gavyabhai Seshabhai Vasava	6352708062
36	JAMLI	1752	Nirmalaben Sureshbhai Vasava	6353653382	Vaishali J.Vanzara	8849307853	Lajrashbhai Divanjibhai Gamit	8469656713
							JITENDRABHAI GAMIT	9904653202
37	VADPADA NESU	964	Ashaben Minubhai Valvi	9978075779	Vaishali J.Vanzara	8849307853	KESHIYABHAI V.GAMIT	7359509825
38	NARANPUR	5008	Ashaben Minubhai Valvi	9978075779	Vaishali J.Vanzara	8849307853	HARDIKABEN N.DAVE	8156080240

							Virsingbhai Gavabhai Valvi	8780121623
							Lilaben Thakorbhai Vasava	6351039495
39	MOHINI	1783	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Kantubhai Rubjibhai Vasava	8238202813
40	TOKARVA	3847	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Matubhai Aalubhai Vasava	6354469175
41	AAMKUTI	694	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Gamit Rahulbhai Hiralal	9099489636
42	JAMVAN	661	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Vasava Dilipkumar Posalyabhai	9979484258
43	KATISKUVA	1140	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Arunbhai Balubhai Gamit	9979484128
44	DHUPI	427	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Vasava Bipinkumar Dhirubhai	9925893002
45	VADGAM JUNU	601	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Vasava Jalmsing Viryabhai	9979652370
46	VADGAM NAVU	882	Maluniben Mahendrabhai Vasava	8160127386	B.B.Vasava	9099272606	Radhaben Gangajibhai Gamit	9712019399
47	CHANDAPUR	636	Surmilaben Mahendrabhai Vasava	7567231243	B.B.Vasava	9099272606	Sanjaykumar Movaliyabhai Gamit	9714247945
48	VAGHSEPA MOTA	633	Surmilaben Mahendrabhai Vasava	7567231243	B.B.Vasava	9099272606	Vasava Devarambhai Chhotabhai	9825379473
49	VAGHSEPA NANA	362	Surmilaben Mahendrabhai Vasava	7567231243	B.B.Vasava	9099272606	Vasava Devarambhai Chhotabhai	9825379473
50	PATIBANDHARA	565	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	ANITABEN VAJARIABHAI VASAVA	9638813691
51	MOHPADA	858	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	Gamit Gunvantkumar Jitendrabhai	9909531825

52	MOGRAN	1922	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	Thorat Bharatkumar Pratapbhai	9427531877
53	SAYAJIGAM	1110	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	Vasava Kartikbhai Limajibhai	9099271779
54	CHADHVAN	1121	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	Umeshbhai Manjabhai Naik	8758344176
55	CHITPUR	1869	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	Kishanbhai Chotubhai Vasava	9510627058
56	JAMTALAV	661	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	Vasava Ravindrabhai Maganbhai	7874349195
57	TAVLI	953	Amitaben Bahadurbhai Vasava	6355487420	Ronak J.Rajpara	6351363243	Vasava Manilal Kathudiyabhai	9687729628
58	KAROD	3571	Vaishali J.Vanzara	8849307853	Nirav A.Choudhari	6551177205	Gamit Dipakkumar Lalsingbhai	9925959910
59	FULUMRAN & PANIBARA	2649	Harshad M.Katariya	9099111151	Nirav A.Choudhari	6551177205	Vasava Jitendrabhai Pirsinh	7990736140
60	AMOD & FULVADI		Harshad M.Katariya	9099111151	Nirav A.Choudhari	6551177205	Rajubhai Ashokbhai Vasava	7567538406
61	SEVTI	390	Nishaben C.Vasava	8469800040	Nirav A.Choudhari	6551177205	Gamit Mouvaliyabhai Kishanbhai	9979091062
62	KUIDA	1773	Nishaben C.Vasava	8469800040	Nirav A.Choudhari	6551177205	Valvi Jagdishbhai Jemubhai	9825959925
63	AARKATI & DEKHDEVI	1379	Nishaben C.Vasava	8469800040	Nirav A.Choudhari	6551177205	Ramitaben Ishvarbhai Valvi	9099851204
64	AADGAM	1098	Nishaben C.Vasava	8469800040	Nirav A.Choudhari	6551177205	Vilashbhai Mansingbhai Vasava	7202022300
65	NAVI KACHLI	547	Nishaben C.Vasava	8469800040	Nirav A.Choudhari	6551177205	Pinkalbhai Vinodabhai Gamit	9099684804

## Nizar

### Name of Taluka-Nizar

Sr No.	Village Name	Population	Sarpanch Name & Number	Talati name & Number	School Principal Name & Number
1	Nizar	8287	Chandaben Ajeetbhai Padvi Mo.7574900678	Alpeshbhai A. Gamit Mo.7567946008	PANKAJKUMAR B. PATEL 9909494750
2	Kothali Budrak	3200	Ratilalbhai Bansibhai Thakre Mo.9714322126	B.L.Bagodariya Mo.8758713944	LUHARIYA KIRANBHAI D. 9537211160
3	Mubarakpur	1801	Jamunaben Kantilal More Mo.7984483253	B.L.Bagodariya Mo.8758713944	SUNANDABEN N. PATEL 8141367122
4	Harduli	1295	Santoshbhai Jemabhai Padvi Mo.9023928581	Amarbahi B. Gamit Mo.6351710996	GANESHBHAI K. THAKARE 9537492766
5	Vanka	2139	Sushilaben Pasukbhai Padvi Mo.9023391256	Amarbahi B. Gamit Mo.6351710996	KAUSHALYABEN B. PATEL 9974466838
6	Anturli	1993	Rajilabena Rmasingabhai Padvi Mo.9427414341	Amarbahi B. Gamit Mo.6351710996	PRAKASH G. NIKWADE 9427812738
7	Sarvala	1891	Dineshbhai B. Koli (Vahivatdar) Mo.8200861113	Bhumiben K. Patel Mo.6355497437	VINODBHAI R. PATEL 9427757942
8	Chichoda	1337	Dineshbhai B. Koli (Vahivatdar) Mo.8200861113	Bhumiben K. Patel Mo.6355497437	ARUNBHAI S. THAKARE 7096676147
9	Shelu	473	Dineshbhai B. Koli (Vahivatdar) Mo.8200861113	Bhumiben K. Patel Mo.6355497437	JAYESHKUMAR K. CHOUDHARI 9726639759
10	Devala	1522	Amarbahi B. Gamit (Vahivatdar) Mo.6351710996	Hemangiben J. Gamit Mo.9898256996	MALI DIPAKBHAI A. 9638200501
11	Piplod	1319	Premilaben Machindrabhai Thakre Mo.9664973601	Nirali N. Desai Mo.6352844966	HIMMATBHAI Z. BHOI 9130425031
12	Vyaval	1570	Yediben Hasratbhai Thakre Mo.8888932901	Nirali N. Desai Mo.6352844966	SAMUDRE VIJAYKUMAR S. 9426471304

13	Sulvada	1408	Yediben Hasratbhai Thakre Mo.8888932901	Nirali N. Desai Mo.6352844966	PRAJAPATI MANUBHAI K. 9429370279
14	Hingni	938	Gokulbhai S. Padvi (Vahivatdar) Mo.8200450299	Hemangiben J. Gamit Mo.9898256996	GHASKATA SHAILESHKUMAR T. 9725336136
15	Velda	10116	Yogitaben Kishorbhai Padvi Mo.7016964419	Dineshbhai B. Koli Mo.8200861113	SHIVABHAI G. PATEL 9638715806
16	Khodada	820	Jitendrabhai Jahgubhai Padvi Mo.9687120028	Viralbhai B. Chaudhari Mo.9099495010	MANISHBHAI M. PADVI 8758647673
17	Kavtha	775	Jitendrabhai Jahgubhai Padvi Mo.9687120028	Viralbhai B. Chaudhari Mo.9099495010	JOSHI SANJAYKUMAR B. 9427958935
18	Nevala	1189	Jitendrabhai Jahgubhai Padvi Mo.9687120028	Viralbhai B. Chaudhari Mo.9099495010	CHAUDHARY KISHORBHAI H. 8238907945
19	Adada	1276	Laxmanbhai Nandaryabhai Padvi Mo.9909175771	Viralbhai B. Chaudhari Mo.9099495010	INDASBHAI S. PADVI 8905227821
20	Borda	810	Kunvarsing Jalubhai Valvi Mo.9737963433	Viralbhai B. Chaudhari Mo.9099495010	RAKESHBHAI R. GAMIT 8980977092
21	Laxmikheda	1876	Bhavubhai Tapsingbhai Valvi Mo.6353604411	Twinkalben A. Rabari Mo.9773202809	GAMIT ANILBHAI B. 7567945850
22	Bhiljamboli	3198	Sunilbhai Narsibhai Valvi Mo.9916593813	Twinkalben A. Rabari Mo.9773202809	GAVIT JAGANNATH D. 9428143133
23	Gujjarpur	1262	Sunilbhai Narsibhai Valvi Mo.9916593813	Twinkalben A. Rabari Mo.9773202809	RAMOYA BHAGVANBHAI R. 9879175374
24	Gamdi	1013	Sunilbhai Narsibhai Valvi Mo.9916593813	Twinkalben A. Rabari Mo.9773202809	VINODBHAI D. GAMIT 9427875758
25	Juni Bhilbhavali	1138	Surajbhai Sanjaybhai Padvi Mo.7435977807	B.L.Bagodariya Mo.8758713944	JITENDRABHAI S. VALVI 9687536565
26	Raygad	3654	Shardbhai Dinkarbhai Naik Mo.6359420928	Gokulbhai S. Padvi Mo.8200450299	VASAVA SHAILESHKUMAR K. 9727406500

27	Nasarpur	937	Shardbhai Dinkarbhai Naik Mo.6359420928	Gokulbhai S. Padvi Mo.8200450299	sujitbhai m. chaudhari 7567713731
28	Lekurvadi	705	Shardbhai Dinkarbhai Naik Mo.6359420928	Gokulbhai S. Padvi Mo.8200450299	PATEL RASHMIBEN C. 9712965227
29	Hathnur	1114	Shardbhai Dinkarbhai Naik Mo.6359420928	Gokulbhai S. Padvi Mo.8200450299	PRAKASHBHAI D. VALVI 9537853766
30	Sayala	2529	Dasubhai Bapubhai Vasava Mo.9727222313	Kamleshbhai V. Valvi Mo.9979767173	VASAVE PINESHKUMAR J. 9913572005
31	Tapi Kadakla	2457	Dasubhai Bapubhai Vasava Mo.9727222313	Kamleshbhai V. Valvi Mo.9979767173	HITESHKUMAR N. PATEL 9824048699
32	Vadli	1376	Dasubhai Bapubhai Vasava Mo.9727222313	Kamleshbhai V. Valvi Mo.9979767173	RAKESHBHAI B. PADVI 9427917436
33	Kherva	1433	Dasubhai Bapubhai Vasava Mo.9727222313	Kamleshbhai V. Valvi Mo.9979767173	KRUSHNAVATIBEN S. VASAVA 8469161691
34	Khanora	626	Dasubhai Bapubhai Vasava Mo.9727222313	Kamleshbhai V. Valvi Mo.9979767173	PATEL RINABEN T. 9099278790
35	Bortha	1257	Dasubhai Bapubhai Vasava Mo.9727222313	Kamleshbhai V. Valvi Mo.9979767173	PARMAR RAJESHKUMAR G. 9978192587
36	Navi Bhailbhavali	899	Dasubhai Bapubhai Vasava Mo.9727222313	Kamleshbhai V. Valvi Mo.9979767173	VALVI DANIELBHAI R. 9099451995



## Kukarmunda:-

<u>s.r</u>	<u>village</u>	<u>population</u>	<u>sarpanch Name</u>	<u>Mo No</u>	<u>Talati Name</u>	<u>Mo No</u>	<u>School Principal Name</u>	<u>Mo No.</u>
1	kukarmunda	6204	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	8849846670	shri rajendrabhai chale	9427161120
2	pati	568	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	8849846670	shri sunitaben	9427163251
3	gadit	506	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	8849846670	dhirajbhai	9427163251
4	gorasa	739	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	8849846670	barmabhai	9428144711
5	kandroj	426	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	8849846670	nitinbhai	9978802056
6	utavad	652	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	8849846670	babulalbhai	7874868470
7	kelni	416	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	8849846670	rakeshbhai	8141066548
8	fulvadi	984	vanitaben gajendrabhai padvi	9377518454	Dipakbhai k. Padvi	9265983843	yashvantbhai valvi	8000281952
9	tulsa	701	niranjnaben panditbhai valvi	9099228369	V. D. Vasava	9408120931	jarmansingbhai valvi	9428144678
10	rajpur	2041	niranjnaben panditbhai valvi	9099228369	V. D. Vasava	9408120931	sajanbhai valvi	6352210052
11	bej	1867	vinayakbhai fatubhai valvi	6351152386	Prakash M. Padvi	9924525203	amrutbhai b.valvi	8140271935
12	amoda satona	1764	vinayakbhai fatubhai valvi	6351152386	Prakash M. Padvi	9924525203	hemantbhai k patel	7574958961
13	vesgam	563	lataben revjibhai padvi	6353335055	Prakash M. Padvi	9924525203	subhashbhai j valvi	8141861869
14	modala	1195	lataben revjibhai padvi	6353335055	Prakash M. Padvi	9924525203	geetaben	9021193403
15	balmba	1714	vinayakbhai fatubhai valvi	6351152386	Prakash M. Padvi	9924525203	aravindbhai m gavit	7621934793
16	medpur	695	sunandaben dineshbhai valvi	9537435035	V. D. Vasava	9408120931	varshaben patel	9624222683
17	kevdamoi	681	sunandaben dineshbhai valvi	9537435035	V. D. Vasava	9408120931	kiritbhai chaudhari	9726206451

18	asapur	296	sunandaben dineshbhai valvi	9537435035	V. D. Vasava	9408120931	umeshbhai	8160438666
19	ranaichi	728	sunandaben dineshbhai valvi	9537435035	V. D. Vasava	9408120931	madhviben patel	7990724421
20	panibara	461	sunandaben dineshbhai valvi	9537435035	V. D. Vasava	9408120931	ajaybhai patel	9941001294
21	toronda	1596	krutikaben vinodbhai valvi	9979355420	V. D. Vasava	9408120931	vigneshbhai u patel	9664893642
22	moromba	2869	jyotiben madhikarbhai vasave	9106983701	Prakash M. Padvi	9924525203	rajendrabhai s valvi	9099833399
23	chokhiamli	1585	ravidasbhai raysingbhai padvi	9420222378	Pratibha H. Vakatar	9023342427	nitinbhai	9913779718
24	borikuva	454	ravidasbhai raysingbhai padvi	9420222378	Pratibha H. Vakatar	9023342427	rajarambhai valvi	9712762777
25	zumkati	474	ravidasbhai raysingbhai padvi	9420222378	Pratibha H. Vakatar	9023342427	amrutbhai	6354202122
26	zapaamli	354	ravidasbhai raysingbhai padvi	9420222378	Pratibha H. Vakatar	9023342427	meeraben patel	9537561600
27	akkalutara	1333	ravidasbhai raysingbhai padvi	9420222378	Pratibha H. Vakatar	9023342427	dharmendrabhai j valvi	9687006867
28	vadpada	173	ravidasbhai raysingbhai padvi	9420222378	Pratibha H. Vakatar	9023342427	vijaybhai p patel	9898148976
29	gangtha	2360	akshaykumar harpatbhai naik	8980530357	Chimanlal V. Bhabhor	9726208333	karimbhai makarani	7567473062
30	umaza	921	akshaykumar harpatbhai naik	8980530357	Chimanlal V. Bhabhor	9726208333	sejalben d chauham	9724725452
31	ziribeda	538	akshaykumar harpatbhai naik	8980530357	Chimanlal V. Bhabhor	9726208333	dhavalbhai h chaudhari	9714606619
32	Dabariamaba	1182	Akashyumar Harapatbhai Naik	8980530357	Chimanlal V. Bhabhor	9726208333	Shri Kalpeshbhai M. Patel	9601073096
33	Itwai	1404	Akashyumar Harapatbhai Naik	8980530357	Chimanlal V. Bhabhor	9726208333	Shri Surajsinh B.Paramar	9638315731
34	Patipada	603	Akashyumar Harapatbhai Naik	8980530357	Chimanlal V. Bhabhor	9726208333	Shri Anitaben Padvi	
35	Porad	610	Akashyumar Harapatbhai Naik	8980530357	Chimanlal V. Bhabhor	9726208333	Shri Rajubhai M.Naik	9726777406
36	Chirmati	677	Vilashbhai Keshvrao Padvi	9921054174	Raj K. Parmar	8530736450	Shri Pandhrinathbhai Patel	4646546465

37	Asta	786	Yogeshbhai Madhukarbhair Padvi	8160045629	Raj K. Parmar	8530736450	Shri Haribhai Patel	7698955319
38	Ashrava	1763	Bhartiben Upendrabhai Naik	9687512488	Raj K. Parmar	8530736450	Nituben N.Chaudhari	9712966548
39	Amoda tarfe taloda	990	Bhartiben Upendrabhai Naik	9687512488	Raj K. Parmar	8530736450	Shri Sanjaybhai P.Bhoi	
40	Pipalas	570	Bhartiben Upendrabhai Naik	9687512488	Raj K. Parmar	8530736450	Shri Supabhai Valvi	9265150129
41	Mataval	1835	Bhartiben Upendrabhai Naik	9687512488	Raj K. Parmar	8530736450	Shri Rameshbhai G.Vasava	8849954273
42	Bahurupa	2082	Ranjanaben Vilashbhai Bhil	9356828484	Lata J. Baraiya	9512361593	Anilbhai N.Jadav	9574542571
43	Hathoda	925	Tarsingbhai Barkyabhai Padvi	7434069370	Chunilal G.Ahirrav	9016220756	Harshadaben D.Patel	9586695936
44	Balda	2618	Manjulaben Tanasing Thakare	9325762980	R.S.Kande	7899441446	Pritiben R.Gamit	9512480423
45	Nibhora	1780	Minaben indashbhai Bhil	9673153827	Dipak J. Vasava	9712582719	Shitalben A.chaudhari	9727009186
46	Sadgavan	1722	Minaben Rajubhai Kunvar	9325762980	P. B. Pagi	9638447471	Kanubhai R.chaudhari	9409680065
47	Ubhad	970	Ratilal Shivdash Thakare	9765649287	Saileshbhai Valvi	9023399872	Dipuben S.Chaudhari	9724440622
48	Satola	509	Ratilal Shivdash Thakare	9765649287	Saileshbhai Valvi	9023399872	Darshnaben G.Patel	8758049060
49	Pishavar	1642	Bababhai Dadkubhai Panpatil	9765649287	Saileshbhai Valvi	9023399872	Avaniben R.chauhan	9099757475
50	Bamsal	280	Bababhai Dadkubhai Panpatil	9765649287	Saileshbhai Valvi	9023399872	Alpeshbhai F.Chaudhari	9712308806
51	Hol	83	Bababhai Dadkubhai Panpatil	9765649287	Saileshbhai Valvi	9023399872	Shri Dipuben Chaudhari	9727440622

## Annexure:-31

### Disaster control room numbers of nearby districts of Tapi district

Sr No	District	Office	Number	Remarks
1	Surat	Collector office	0261-2652525 2655151 Fax-2655757	Mo-9978406222 Collector surat
2		Municipal office	0261-2422244 Fax-2422110	Mo-9724345000 M.C
3		DDO Office	0261-2422160 2425751 Fax-2412543	Mo-9978406247 DDO surat
4		Chief Fire office	0261-2423751 Fax-2451935	9724345553
5		Disaster branch	0261-2663200 Fax-2664800	0261-1077
6	Dang	Collector office	02631-220201 Fax-220294	Collector- 9978406208
7		DDO Office	02631-220444 Fax- 220254	DDO-9978406233
8		DSP Office	02631-220248 Fax-220226	DSP- 9978405021
9		Disaster control room	02631-220346/47	02631-1077
10		Mamlatdar Vaghai	02631-246391	
11	Navsari	Collector office	02637-244999 Fax-281540	Collector 9978406215
12		DDO Office	02637-244299 Fax-230475	DDO 9978406240
13		DSP Office	02637-245333 Fax-247510	DSP 9978405075
14		Disaster control room	02637-259401 Fax-281540	02637-1077
15	Valsad	Collector office	02632-253613 Fax-243417	Collector 9978406225
16		DDO Office	02632-253184 Fax-253829	DDO 9978406250
17		DSP Office	02632-254222 Fax-253408	DSP 9978405085
18		Disaster control room	02632-243238	02632-1077

## Annexure:-32

### (Details of precautionary measures taken at tourist/public places in Tapi District)

Sr	Taluko	Place	precautionary measures taken at tourist/public places	Emergency Relief Rescue
1	Dolvan	Padmadungari eco tourism, On Ambika River	<ul style="list-style-type: none"> <li>Jeep-liners, boating, tree walks and bathing in river water are prohibited by the forest department in advance at tourist spots during heavy rains. A swimmer is hired at the local level.</li> <li>GRD/Home Guards are arranged at all places.</li> <li>Warning signboards are posted.</li> </ul>	<ul style="list-style-type: none"> <li>Fire Station Vyara</li> <li>PHC/CHC Dolvan/ Padmadugari</li> <li>Police Station Dolvan/Vyara</li> </ul>
2	Dolvan	Ambapani eco tourism, On Purna River	<ul style="list-style-type: none"> <li>Jeep-liners, boating, tree walks and bathing in river water have already been banned by the forest department at tourist sites.</li> <li>In case of emergency swimmer arrangements are made by the concerned Forest Range Officer. And warning signboards are posted.</li> </ul>	<ul style="list-style-type: none"> <li>Fire Station Vyara</li> <li>GH Vyara/ PHC Lakhali</li> <li>Police Station Dolvan/Vyara</li> </ul>
3	Songadh	Chimer waterfall	<ul style="list-style-type: none"> <li>GRD/Home Guards are arranged at all places.</li> <li>Warning signboards are posted.</li> </ul>	<ul style="list-style-type: none"> <li>Fire station Songadh</li> <li>CHC hindala</li> </ul>
4		Doswada Dam		<ul style="list-style-type: none"> <li>Fire station Songadh</li> <li>CHC Songadh</li> </ul>
5		Gaumukh		<ul style="list-style-type: none"> <li>Fire station Songadh</li> <li>CHC Songadh/PHC Jamkhadi</li> </ul>

6	Uchchhal	Thuti (Ukai Dam reservoir area)	<ul style="list-style-type: none"> <li>• Public warning sign boards are installed.</li> <li>• Thuti being a popular tourist spot, home guard personnel are deployed as a precaution as the water level rises during the monsoons.</li> </ul>	<ul style="list-style-type: none"> <li>• Fire station Songadh</li> <li>• CHC Songadh/Uchchha</li> </ul>
7		Selud (Ukai Dam reservoir area)		<ul style="list-style-type: none"> <li>• Fire station Songadh</li> <li>• CHC Songadh/Uchchhal</li> </ul>

## Annexure:-33

### Industry/MH Unit

Sr	Taluko	Industry/MH Unit
1	Songadh	JK Paper Mill CPM Ukai
2	Songadh	Tharmal power station Ukai
3	Valod	Sankalp Paper Mill Dumkhal Valod



# Tapi District

For official use only



## Legend

- Settlement
- Taluka Head Quarter
- ▲ District Head Quarter
- Village Boundary
- Taluka Boundary
- District Boundary
- Road**
  - Expressway
  - National Highway
  - State Highway
  - District Road
  - Village Road
- River
- Railway

Data Source:



Settlement commissionerate and Land Record

Prepared By:



Map not to Scale

0 3.75 7.5 15  
km

Bharuch

Narmada

Surat

Songadh

Uchchhal

Dang

Navsari

Nizar

Tapi

Vyara

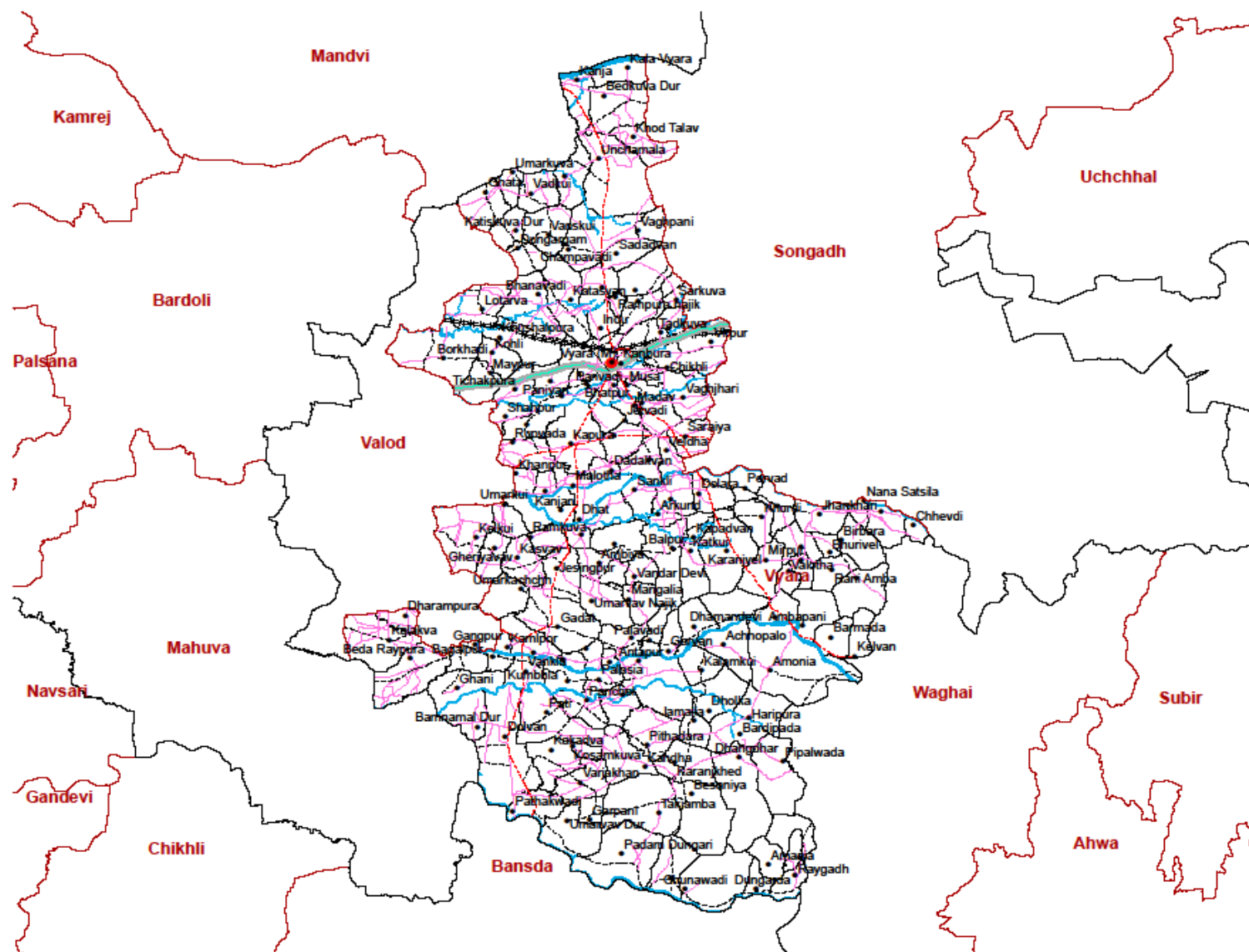
Valad



District : Tapi

Taluka : Vyara

For official use only



### Legend

- Settlement
- Taluka Head Quarter
- Village Boundary
- Taluka Boundary
- District Boundary
- ~ River
- +++ Railway
- Road**
- == Expressway
- == National Highway
- State Highway
- District Road
- Village Road

Data Source:



Settlement commissionerate and Land Record

Prepared By:



ISO 9001:2008  
ISO 27001:2005  
CMMI Level-3

Map not to Scale

0 3.75 7.5 15 km

For official use only



### Legend

●	Settlement
●	Taluka Head Quarter
□	Village Boundary
□	Taluka Boundary
□	District Boundary
~	River
+++	Railway
<b>Road</b>	
==	Expressway
—	National Highway
- - -	State Highway
- - -	District Road
- - -	Village Road

Data Source:



Settlement commissionerate and Land Record

Prepared By:



ISO 9001:2008  
ISO 27001:2005  
CMMI Level-3

District : Tapi

Taluka : Valod

Kamrej

Mandvi

Songadh

Bardoli

Palsana

Vyara

Mahuva

Nasari

Map not to Scale

0 2 4 8 km

District : Tapi

Taluka : Songadh

For official use only



### Legend

- Settlement
- Taluka Head Quarter
- Village Boundary
- Taluka Boundary
- District Boundary
- ~ River
- +++ Railway
- Road**
- === Expressway
- National Highway
- State Highway
- District Road
- Village Road

Data Source:

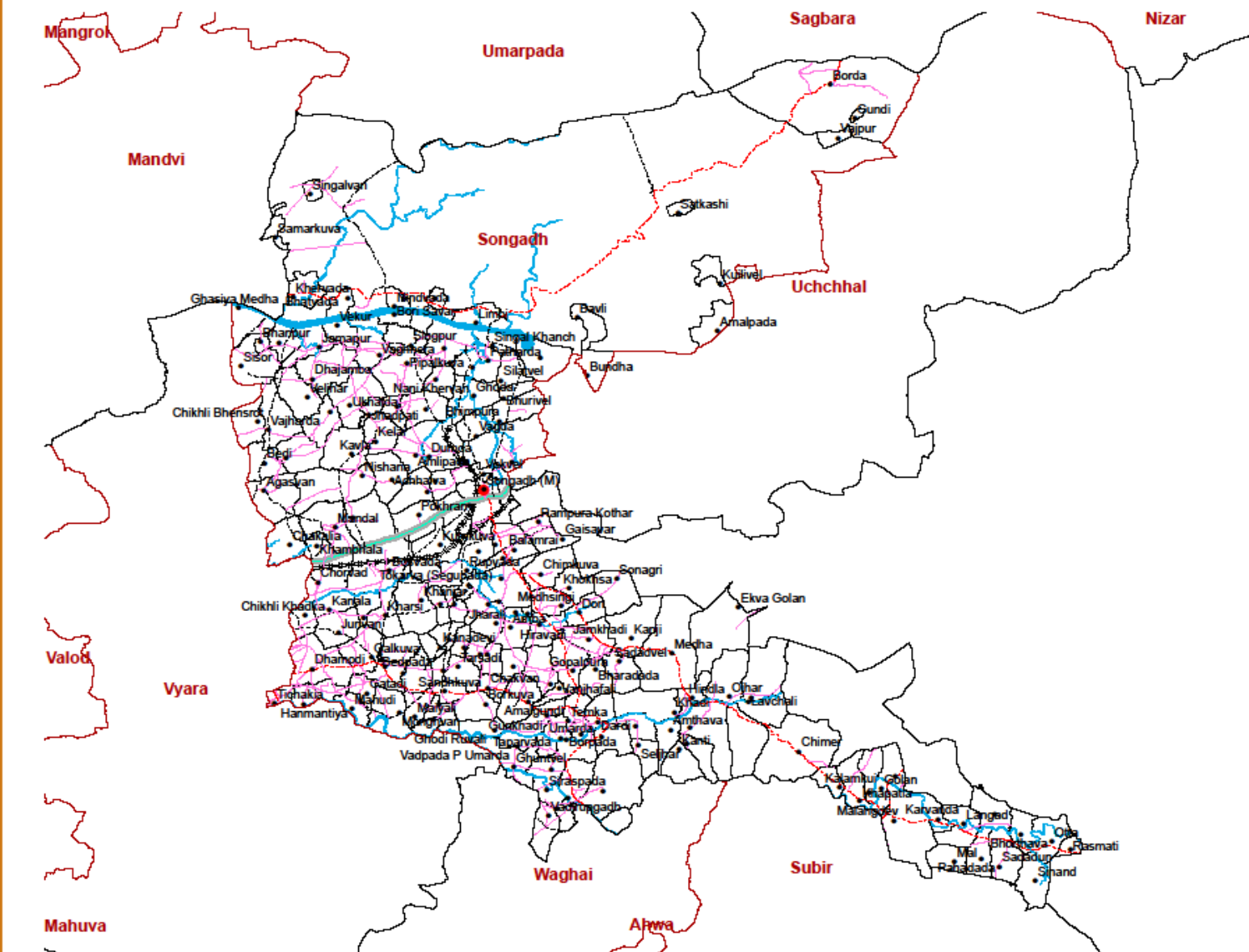


Settlement commissionerate and Land Record

Prepared By:



ISO 9001:2008  
CMMI Level-3



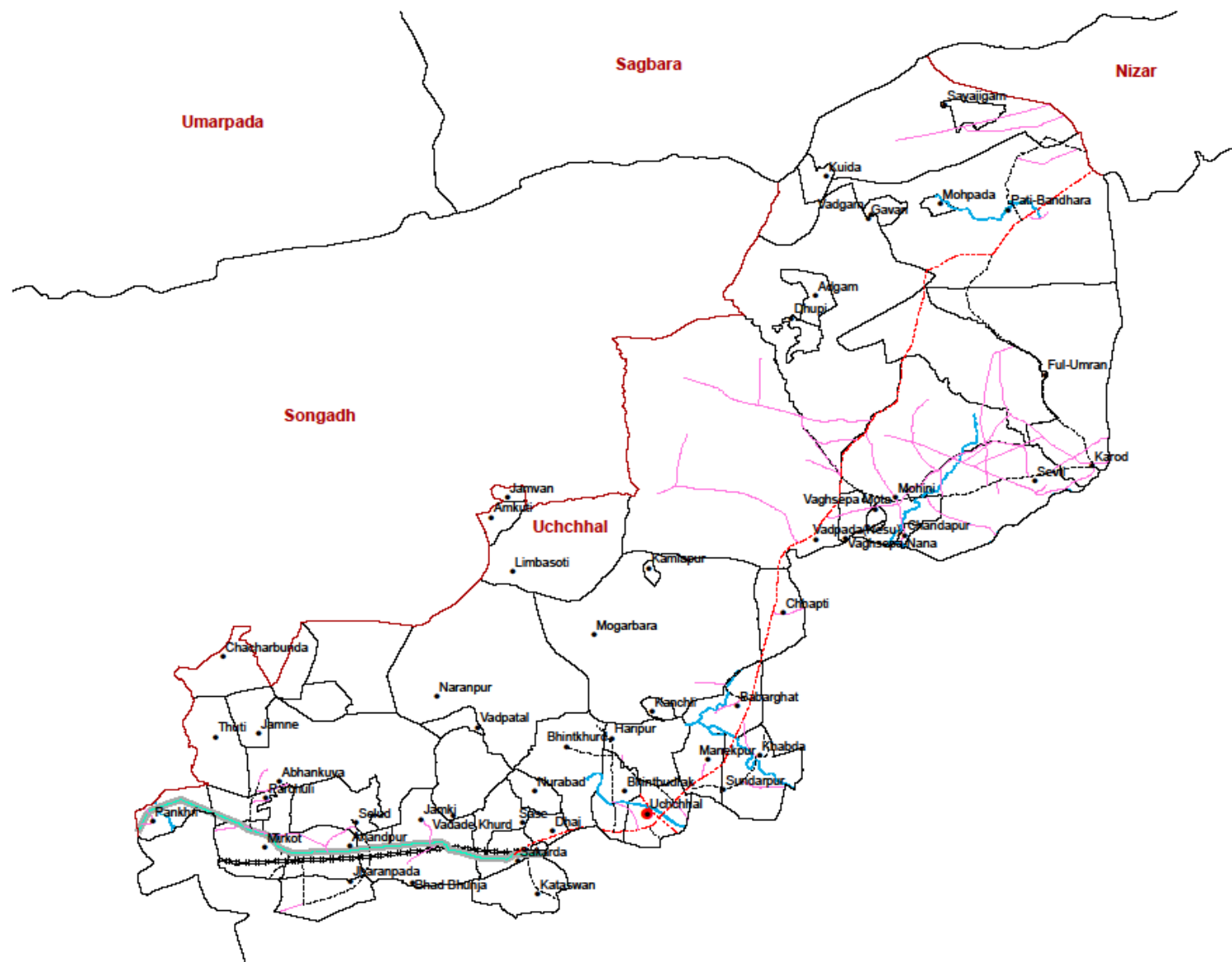
Map not to Scale

0 4 8 16 km

District : Tapi

Taluka : Uchchhal

For official use only



### Legend

- Settlement
- Taluka Head Quarter
- Village Boundary
- Taluka Boundary
- District Boundary
- ~ River
- +++ Railway
- Road**
- == Expressway
- National Highway
- State Highway
- District Road
- Village Road

Data Source:



Settlement commissionerate and Land Record

Prepared By: **BISAG**  
ISO 9001:2008  
ISO 27001:2005  
GMMI Level-3

Map not to Scale

0 2.5 5 10 km

