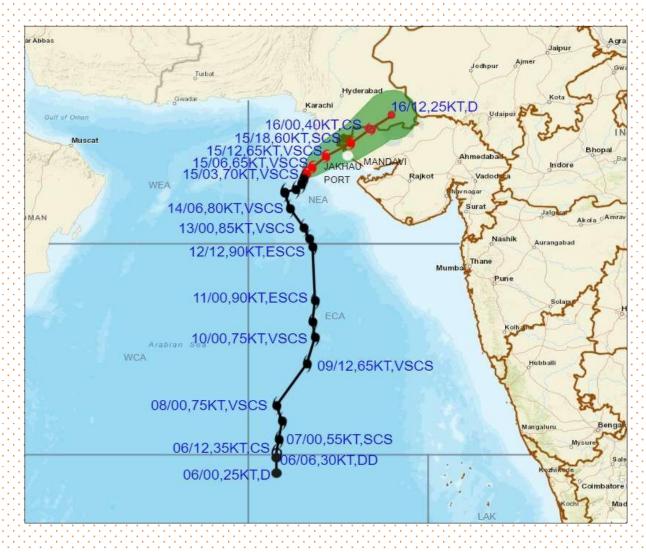
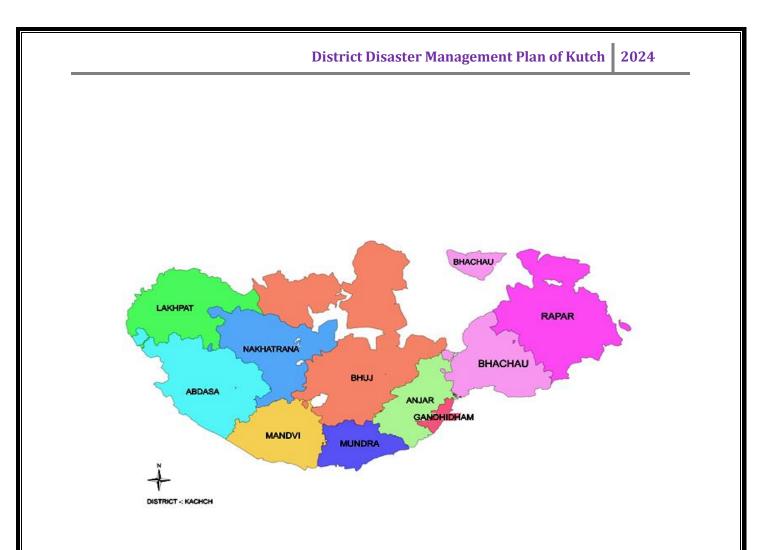
District Disaster Management Plan

Year: 2024 | District: Kutch



District Emergency Operation Centre Collector Office, Bhuj





DISTRICT DISASTER MANAGEMENT PLAN

Year: 2024 | District: Kutch

District Emergency Operation Centre

Disaster Management Cell Office of the Collector & District Magistrate, Kutch at Bhuj Phone : 02832-250923, Email : dismgmt-kut@gujarat.gov.in



Foreword

India is full of different type of Geo-Physiographic features and it is vulnerable to various kinds of hazards and climate. The rapid urbanization, increase in population density, global warming, deforestation and climate change has escalated the frequency of disasters.

To cope with such disasters event National Disaster Management Act 2005 & Gujarat State Disaster Management Act 2003 mandates district authority to prepare disaster management plan at different level.

Kutch is a largest district of India. Due to its Geographical and peninsular shape makes it vulnerable to different types of natural climates. Rapid industrialization, urbanization makes the district more prone to man-made & bio-logical hazards. For the quick and effective response during such incidents a concrete disaster management plan is required.

The District Disaster Management Plan- 2024 of Kutch district has been prepared considering all the potential hazards of district. The DDMP of Kutch has highlighted the roles and responsibility of the officials of concerned department and the member of District Disaster Management Committee. The incident Command System has clearly been described in this plan to respond well during any time of crisis. Furthermore, this plan shall guide NGOs, volunteers, private agencies and local bodies to perform their duties during the disaster.

I hope the implementation of this plan in pre-disaster and post-disaster phase will reduce the impact of hazard and it shall also act as a reference literature for systematic response during the disaster impact period.

ctor- Kutch

Preface

The District Disaster Management Plan- 2024 of Kutch district is prepared as per the guidelines provided by National Disaster Management Authority and Gujarat State Disaster Management Authority. This plan incorporates the brief details of all the potential hazards of Kutch with their severity and frequency cycle has been described of the official from each department NGOs, volunteered local bodies.

Updated details of search & rescue/relief equipment and vehicles available at district level to village level has been incorporated in this plan and all the necessary contact details of important officials has been updated. Moreover, the co-ordinates of villages which are vulnerable to water inundation or flooding situation have been included in this plan for the quick identification of affected villages for air lift purpose. The response mechanism during any catastrophic event with complete precaution has been described in this plan as per the guidelines provided by NDMA.

This plan will be reviewed periodically to update details of all the equipment and contact details of official.

District Project Officer (GSDMA) Kutch

Mamlatdar

Disaster Management Cell Kutch

Resident Additonal Collector Kutch

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Chapter 1: Introduction

1.1 What is a Disaster?

A disaster is an event triggered by natural man-made 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 recognized fact that while natural disasters are primarily due to an imbalance in nature but losses due to them on account of human feelings. Human sufferings and misery from a large number of natural disasters can be minimized by taking timely action, preventing mechanisms and undertaking capital works of long and medium terms.

Disaster management is a process or strategy that is implemented when any type of catastrophic event takes place and it also includes the preparation in anticipation of any such event. In India, 199 districts have been identified to be multi hazard prone. Kutch is also one of them and it is exposed to both natural as well as man-made hazards. Among the natural hazards, earthquake, cyclones, drought, flood and heat wave are the major ones. At the district level, the district administration is the focal point to manage any disaster or eventuality. It is therefore, imperative to equip and train the district disaster management committee and disaster management team headed by the District Collector. The district administration is also required to prepare a District Disaster Management Plan (DDMP) based on 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 (DC).

The previous disaster management plans of the Kutch district were mainly disaster specific contingency plans. As a result, the command and control of relief efforts were often not optimal. The mitigation, prevention, and preparedness aspects were not addressed. Further, separate plans for each disaster have produced multiple documents with considerable duplication, which would work against potential users reading and knowing any of the plans.

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

1.2 Aims and Objectives of Kutch DDMP:

Following are the broad objectives of the Kutch DDMP -

To determine the risk and vulnerabilities associated with various hazards

- a. To identify the hazardous areas and to create appropriate strategies to address the issues in these areas
- b. To develop appropriate strategies for effective prevention and mitigation of disasters
- c. To build the capacity of people working in the field of disaster management
- d. To make the citizens aware of the disasters and their impact
- e. To define and assign roles and responsibilities to various stakeholders associated with disaster management for pre-disaster and post-disaster phases
- *f.* To develop and maintain arrangements for accessing resources, equipment, supplies, and funding in preparation for disasters

- g. To defines the risks and Vulnerabilities of the citizens of the district to different disasters.
- *h.* To Identifies the private and public sector parties with prime and supporting responsibilities to reduce or negate these vulnerabilities
- i. To Mainstreaming disaster management concerns into the developmental planning process
- j. To Defines actions to be taken by these parties to avoid or mitigate the impact of possible disasters in the district

1.3 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.

1.3.1 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.

1.3.2 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

1.3.3 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

1.3.4 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.

1.3.5 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.

1.4 The Scope of the Plan:

The District Disaster Management and Response Plan for Kutch 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.

1.5 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 Standard Operating Procedures (SOPs) should be limited to the minimum information needed 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.

Guidelines on the use of the DDMP as per National Disaster Management Authority (NDMA) policy plan are following –

- a. Section 31 of National Disaster Management (NDM) Act 2005 makes it mandatory for every district to prepare a disaster management plan, for the protection of life and property from the effects of hazardous events within the district.
- b. Insignificant emergencies or disasters, District Magistrate or the chairperson of DDMA will have the powers of overall supervision direction and control as may be specified under State Government Rules/State Disaster Management Plan guidelines.
- c. The district Emergency Operation Center (EOC) will be staffed and operated as the situation dictates. When activated, operations will be supported by senior officers from line departments and central government agencies; private sector and volunteer organizations may be used to provide information, data and resources to cope with the situation.
- d. The DDMA may recommend for action under Sec 30 of DM Act.
- e. Facilities that have been identified as vital to the operation of the district government functions have been identified.
- f. The Collector or his designee will coordinate and control resources of the District.

- g. Emergency public information will be disseminated by all available media outlets through the designated media and information officer.
- h. Prior planning and training of personnel are prerequisites to effective emergency operations and must be considered as integral parts of disaster preparations.
- i. Coordination with surrounding districts is essential, when an event occurs, that impacts beyond district boundaries. The procedure should be established and exercised for interdistrict collaboration.
- j. Departments, agencies and organizations assigned either primary or supporting responsibilities in this document must develop implementation documents in order to support this plan.
- k. When local resources prove to be inadequate during emergency operations, request for assistance will be made to the State or higher levels of government and other agencies in accordance with set rules and procedures.
- 1. District authority will use the normal channel for requesting assistance and/or resources, i.e., through the District Emergency Operations Center (DEOC) to the State EOC. If state resources have been exhausted, the state will arrange to provide the needed resources through central assistance.
- m. The DEOC will coordinate with the State EOC, Agencies of the Govt. of India like Indian Meteorological Department (IMD), Central Water Commission(CWC) to maintain upto-date information concerning potential flooding, cyclones etc. As appropriate, such information will be provided to the citizens of the affected areas in the district.
- n. Upon receipt of potential problems in these areas, DEOC/designated officials will appropriately issue alert and notify action to be taken by the residents.
- o. Disaster occurrence could result in disruption of government functions and, therefore, all levels of local government and their departments should develop and maintain procedures to ensure continuity of Government action.

1.6 Evolution of the Plan:

Gujarat Act No. 20 of 2003 or The Gujarat State Disaster Management (GSDM) Act, 2003 provides for the creation of the DDMP in the district and in fact GSDM Act was a pioneer legislation in the whole country to make such provisions. It has clearly stated the mandatory provision of the DM plan in various clauses and sections. Some of the important sections and provisions are reproduced below.

Clause 15 of Chapter VI of GSDM Act, 2003

- 1. The authorityshall develop or cause to be developed guidelines for the preparation of disaster management 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, program, 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.
 - vi. 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

1.7 Authority for the Plan:

At the state level, Gujarat State Disaster Management Authority (GSDMA) 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, stakeholdersand communities. The Authority shall act as the central planning, coordinating and monitoring body fordisaster management and post-disaster reconstruction, rehabilitation, evaluation, and assessment. It will also assist the State Government in theformulation of policy relating toemergency relief notwithstanding that the implementation ofemergency relief shall be the responsibility of the revenue department and other departments of the Government. It shall also inform the State Government and departments of Government onprogress and problems in disaster management. It hasall promote general education and awareness on disaster management, emergencyplanning, and response and matters incidental to the State Government, the Collector, concerned officers of the State Government and the local authorities in the State shall givesuch assistance and support to the Authority in performing itsfunctions as may be required by the Authority.

At the district level, the District Collector is incharge of disaster management and prepares DDMP and responds to emergency situations.

1.8 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 Head Quarters (HQ) is responsible to deal with all phases of disaster management within the district. Technical institutions, Non-Governmental Organizations (NGOs), Local authority, the private sector, community groups, volunteer agencies, and citizens are the other stakeholders and potential participants in the disaster management exercise.

According to DM Act, 2003 Stakeholders and their responsibilities are:

I. District Collector

During the period, when an area is declared or considered as 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 DDMP or other contingency plan.

The District Collector may *make arrangements for release and use of available resources.* The District Collector may also *control and restrict traffic to, from and within the area affected by a disaster.* He or she may *control and restrict the entry into, movement within and departure from any disaster area or part of it.* Other activities which may be ordered by the collector are –

- a. Removal of the debris
- b. Conduct search and rescue operations
- c. Make arrangements for the disposal of the unclaimed dead body, by appropriate means
- d. Provide alternative shelter
- e. Provide food, medicines and other essentials
- f. Require experts and consultants in the matters relevant to the disaster to provide relief under his direction and supervision
- g. 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
- h. Procure exclusive or preferential use of amenities as and when required
- i. Construct temporary bridges or other structures
- *j.* Demolish unsafe structures which may endanger the public
- *k.* Coordinate with non-governmental organizations and ensure that such entities carry out their activities in an equitable manner
- *l.* Disseminate information to the public to deal with the disaster
- *m.* 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
- n. Authorize any person, to make an entry into any place, to openor cause to be opened, any door, gate or other barrier, if he or she considers such an action is necessary for preservation of life andproperty, if the owner or occupier is absent, or is present, refuses to open such door, gate or barrier.

The Collector may exercise the powers contained in subsection (2) of the GSDM Act, 2003to 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 orgovernment agency and take such other steps, as may benecessary to curtail the escalation of the disaster or to alleviate, contain or minimize the effects of the disaster.

The Collector shall also facilitate and, coordinate with, local Governing bodies to ensure that pre and post-disaster management activities in the district are carried out. He or she shall assist community training, awareness programmers and the installation of emergency facilities with the support of local administration, non-governmental organizations, and the private sector. He or she shall also take appropriate actions to smoothen the response and relief activities to minimize the effect of the state. He or she shall recommend Commissioner of Relief (COR) and State Government for adeclaration of disaster.

II. Local Authority

The local authorities shall –

- a. Provide assistance to GSDMA, COR, and Collector in disaster management activities.
- b. 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.
- c. Ensure that all construction projects under it conform to the standards and specifications laid down.
- d. 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.

III. 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.

IV. 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.

V. 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.

1.9 Approach to Disaster Management:

The Government of Gujarat and the district administration take an inclusive approach to disaster management. Disaster impact decrease is divided into various broad areas – mitigation, preparedness and prevention before the disaster strikes and warning, relief and recovery during and after the disaster.

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 risk reduction. The district can avail itself of four mechanisms (singularly or together) to reduce risk and vulnerability –

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

Warning, Reliefand 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 the possible provision of warning, relief, and recovery assistance to avoid or reduce losses and hardship.

The focal point for early warning, relief and recovery are 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, COR 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 coordinated with the GSDMA in terms of policy and implementation.

The overall approach to disaster management is based on six elements -

- a. Precise risk and Vulnerability assessment
- b. Planning and efficient allocation of resources
- c. Capacity building and training
- d. Provision of ample resources
- e. The assignment of disaster management roles and responsibilities which correspond to normal roles and responsibilities (if possible) and
- f. Use of diverse legal and operational mechanisms to accomplish disaster management objectives

Based on the interim assessment of risk and vulnerabilities, the Kutch District will focus on the following areas for mitigation, preparedness, and prevention –

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

1.10 Financial Support During the Disaster:

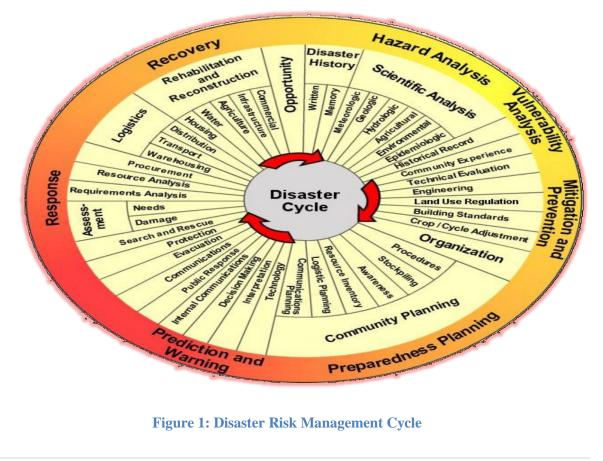
The financial arrangement *as per the fund granted by GSDMA/ State nodal agencies* to the district. District Collector has authorities to distribute/impart the fund to the counter partners of Disaster management in the District as per required activities, according to the instructions of Government of Gujarat.

1.11 DDMP Review and Updation:

The **District Collector** is responsible for the preparation and revision of the DDMP 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 learned as an outcome of the mock exercise, which consists of identifying the gaps and putting in place a system to fill the same.

The DDMP shall be reviewed and updated regularly bi-annually/half yearly and updated -

- a. When significant changes in the nature of any hazards
- b. By lessons learned following any major disaster
- c. When there is any significant change to organization or responsibility of primary members of the task forces defined in the plan.
- d. District Disaster Management Committee (DDMC) shall compile its learning and proposed new mechanisms for improvement of the capacity to deal with disasters
- e. After any drills and rehearsals
- f. After recommendations from all line Depts. in their concerned reports
- g. After lessons learned from any disaster event in other district and state
- h. In consequence of any directions from NDMA, GSDMA, Government of Gujarat, Revenue Department etc.



Chapter 2: District Profile of Kutch

2.1 District Overview:

Kutch is Located in the West corner of Gujarat State. The District is spread between 22°44' and 24° 42' of northern latitude and 68° 07' and 71° 55' of eastern longitude. It is bounded by Saurashtra in South and Banaskantha district in East and then Rajasthan state border. Kutch Desert is situated in North and the international border of Pakistan. The district is having an area of 887106 Hectare (45674 Sq. Kms) making it the largest district of India and accounting for above 23.28% of the total state land. The district has 3300 Hectares forest Area and Agriculture Land is 691818 Hectares.

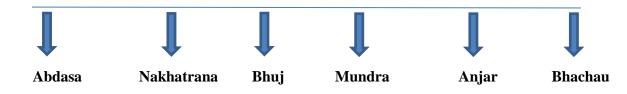
It has a population of 2,092,371 persons (as per 2011 census) and density of the population is 46 persons per sq. km. About 70.02 % of the population lives in the rural area and 29.98% of the population live in the city area. Thus, urban population of Kutch is lower than the Gujarat average. The literacy percentage is 70.59 %.

The District has 10 Talukas and six Subdivisions. The information of Taluka is as under -

Sr.	Name of Taluka	No of Villages	No of Town	Taluka
No.				population
				(Census 2011)
1	Bhuj	149	5	443269
2	Madavi	92	1	203373
3	Mundra	59	1	153219
4	Anjar	66	1	235537
5	Gandhidham	6	4	327166
6	Bhachau	69	1	186035
7	Rapar	97	1	217315
8	Nakhatrana	120	0	146367
9	Abdasa	133	0	117538
10	Lakhpat	86	0	62552
	Total	877	14	2092371

Table 1: Demographic profie of Kutch

Kutch District with Six Sub-Division



Sr. No.	Name of Municipalities	Approx. Population (2024)
1	Bhuj	2,01000
2	Mandavi	71,000
3	Anjar	1,22,000
4	Gandhidham	4,52,177
5	Bhachau	54,000
6	Rapar	39,000
7	Mundra	50,000
8	Nakhtrana	24,400
	Total	1,013,577

Bhuj town is District Head Quarter and has one of the 8 Municipalities in the District. There are 632 Gram Panchayats, 37 Police Station and 76 Police Out-Posts in District.

2.2 Climatic and Geographical Conditions of Kutch District:

The Climate of Kutch-Bhuj District can be observed as one of an extreme kind with hot summers and mildly cold winters, where it is generally pleasant all throughout the year. The climate of Kutch-Bhuj is Mostly Dry with scant rainfall.

Soil of the district is Red in a reasonable part of the district with abundant rocky terrain and hillocks. Kutch also has a significant part in form of marshy land known as Rann locally which is basically a salty desert which dries up seasonally and at other parts of the years is filled with shallow water. The desert touches Bhuj, Rapar, Nakhatrana, Lakhpat, and Bhachau Taluka. Abdasa is the newest Sub-division and it is headquartered in Naliya. Abdasa is actually the name of an area like Kutch district itself.

The temperature at Kutch-Bhuj district ranges from 48.8°C(June)in summer and 2.0°C to 5.0°C (January) in winters. Maximum relative Humidity 100% and range of sea water temperature is 16.8°C to 31.8°C. The average annual rainfall is 402 mm (30 year average for the period 1999 to 2023). 2019 had above average rainfalls and till August 2023, the rainfall was 83% of the past 30 years' average.

	Table 5. Taluka Wise Kainan Data of Kutti- Dhuj District (1777 to 2025)									
Year	Bhuj	Mandavi	Mundra	Anjar	Gandhidham	Bhachau	Rapar	Nakhatrana	Abdasa	Lakhpat
1999	123	84	120	86	335	273	189	10	187	65
2000	90	61	100	63	103	11	18	63	131	185
2001	243	301	411	331	62	382	339	456	572	294
2002	78	168	103	136	259	164	231	100	125	58
2003	712	503	785	771	195	599	686	922	443	843
2004	223	283	417	285	861	275	416	201	142	253
2005	188	243	490	382	383	403	491	174	187	98
2006	596	547	645	466	599	378	532	655	634	656
2007	663	536	590	572	571	611	570	580	462	442

 Table 3: Taluka Wise Rainfall Data of Kutch- Bhuj District (1999 to 2023)

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District Disaster Management Plan of Kutch 2024

							1 1		1	
2008	247	594	438	402	376	289	333	319	186	198
2009	421	559	620	378	258	389	462	432	849	383
2010	896	1701	776	889	604	968	949	691	789	375
2011	742	673	575	473	613	881	1056	634	623	415
2012	140	170	142	194	274	182	277	380	388	290
2013	472	630	946	796	765	951	865	330	349	189
2014	230	412	530	392	340	320	185	241	151	140
2015	591	406	288	899	450	684	646	649	256	434
2016	224	285	295	325	173	416	391	389	277	291
2017	320	482	397	614	343	449	656	367	683	330
2018	83	118	145	231	264	103	26	70	53	12
2019	595	734	818	760	573	798	883	841	846	633
2020	1359	1622	1501	1426	1006	986	897	1012	1001	810
2021	598	488	513	867	466	428	471	584	400	298
2022	1206	976	1025	919	577	537	548	836	829	1041
2023	853	733	844	1134	824	593	715	609	765	572

2.3 River and Dams:

There are no major dams in Kutch-Bhuj District. There are **20 medium** and minor dams controlled under state irrigation department and **170 minor dams** controlled under the District Panchayat. Among these dams, Rudramata dam is the biggest dam in the district.

2.4 Ports and Fisheries:

Out of 1600 kms long coastline of Gujarat, Kutch District is blessed with around 400 km of coastline extending from Surajbari of Bhachau Taluka to Koteshwar of Lakhpat Taluka. There are two ports in the Kutch District, Deendayal Port (earlier known as Kandla Port) is the oldest one and the Mundra Port is the latest one. There are 18 numbers of fish landing centers are there in which Jakhau is one of the major fisheries harbor of the district and it is one of the five major fisheries harbors of the state. Surajbari, kandla, sanghad, tunavandi, mandvi, nana layza, modhava, tragadi,Jakhau, narayan sarovar, lakhpat, kutdinal, navinal, kukadsar, luni, bhadreshwar, zarpara and mundra are other fish landing centers in the district. 74 villages in 7 Talukas of the district are fishing villages in Kutch District. Total around 655 motorized mechanical boats, 981 motorized Non-mechanical boats of different capacity are available.

2.5 Salt Works:

Due to the long costline in the District,Salt Industries have developed very well. The district has total 2822 salt worker (2024) is working in salt production. Annual Production of salt is around Three Lakhs tones.

2.6 Live Stock:

Cattle wealth occupies pivotal place in the rural economy of the district especially in the areas of Banni, Abdasa and Rapar. Livestock position is as below.

	Cow	Buffalo	Sheep	Goat	Horse	Donkey	Dog	Camel	Poultry	Total
ſ	574837	466341	610629	439258	3099	1337	16992	9053	171629	2293175

There are **30 veterinary hospitals**, **29 Primary veterinary hospitals/dispensaries** in the district.

2.7 Industries:

There were **867** (As per factory act 1948) registered industrial units in Kutch, as per Factory Inspector (Mr. Chauhan) data, and they were providing employment to around 62,940 (Approximately) people. Two special economic zones (SEZ) are also there in the district. The district has **55** Major Accident Hazard (MAH) Units.

2.8 Roads and Railway:

The district has **932 villages** and **632 Gram Panchayats**. It is well covered by national and state highways. NH-41 is the longest national highway that passes through the district and it connects Narayan Sarovar to Gandhidham. The total length of railway track is 372.42 Kms in the District and Naliya is the last station in the district.

Sr. No.	Name Road	Length of road(km)	
1.	National Highway	325	
2.	State highway	1727	
3.	District Main road	814	
4.	District other road	722	
5.	Village road	4609	

Table 4: Length of Roads in Kutch

2.9 Health:

The district has 1 Civil Hospitals, 16 Community Health center, 39 Primary health center, 13 Comprehensive Health Care Units, 5 mobile Units, 35 Dispensaries, 10 mobile units (IPD) and one Ayurvedic hospital in the District to cater the people. There are some of private and trust run hospitals also in the districtlike – Jain Hospital and Leuva Patel Hospital in Bhuj, Vagad Welfare Societyin Bhachau, Sarvodaya Hospitalin Bidada, Tolani Hospitalin Adipur, Haji Hasan Hospital and Gokal Hospitalin Mandvi. Civil Hospital in Bhuj runs on PPP and is one of the key medical facilities in the district. Further, the building of this hospital is also earthquake resistant.

Sr. No.	Taluka	Name of CHCs	Name of PHCs		
1.	Anjar	Anjar, Dudhai	Dudhai, Khedoi, Bhimasar, Chadrani, Ratnal,		
	2 sinjar	rinjur, Dudnur	Mathak, Medhpar, Sanghad		
2.			Darsadi ,Talvana, Gadhshisa, Godhara,		
۷.	Mundra	Mundra	Bhujpar, Bhadresvar, Ratadiya, Tumdi Nani,		
			Mota Kandgara , Jarpara		
3.			Layja ,Vanki, Bhujpar, Bhadai, Moti		
5.	Mandvi	Gadhshisa,	Talvana, Godhara, Layja Mota , Nana		
			Asmbiya, Kodai, Godiyari		
4.	Dhaahay	Phashay Lakadia Japan	Juna Kataria, Adhoi, Manfara, Jungi,		
	Bhachau	Bhachau, Lakadia , Janan	Dhoravira Samkhiali, Aamaramradi		
5.	Donon	Paper pelacava	Adesar, Fatehgadh, Bella, Bhimasar-B,		
	Rapar	Rapar ,palasava	Gagodar, Suvai, Chitrod, Gedi, Balasar		

Table 5: Name of CHCs and PHCs of Kutch

6.	Bhuj Khavda, Bharapar, Dhori		Dhaneti, Gorewali, Kodki, Kukma, Kera, mota Dinara, Dahisara, Madhapar, Bhiurandiyar, Desalpar Vandhai
7.	7. Abdasa Naliya		Tera, Mothala, Kothala, Vayor,
8.	Lakhpat	Dayapar	Baranda , Narayan Sharovar, Matanamadh, Gaduli
9.	Nakhatrana	Nakhatrana	Deshalpar, Netra, Nirona, Vithon, Mangvana, Netra
10.	Gandhidham	Rambag	Kidana, Mithi Rohar

2.10 Education:

The district has relatively low literacy rate when compared to national average. As per 2011 Census, Kutch had average 70% literacy rate while the national average was 74%. The district has total **1880 Government schools**, **644 Private Schools** and **111 Granted Schools**. For higher education there is one university namely, Kutch University in Bhuj and apart from it, there are around 40 colleges which are providing higher education.

Chapter 3: Hazard Vulnerability and Risk Assessment

Before we move into Hazard, Vulnerability and Risk analysis of the district Kutch, let's understand the terms themselves first.

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 occur in our environment." A **Disaster** is the product of a hazard coinciding with a vulnerable situation, which might include communities, cities or villages. The **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".

The hazard mapping can be best done by officials in the field, line departments, specialized agencies like BISEG or GIDM, and Gujarat State Disaster Management Authority. Collector is the nodal officer which does such hazard analysis. Now a days technology like GIS and aerial surveillance by drones etc. can also be used for hazard mapping.

3.1 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.

Disaster	Year	Magnitude	Talukas & no. of	Life &	Damage to	Economic
		/extent	villages affected	cattle loss	property	losses
Earthquake	arthquake 2001 7.7		10 Taluka	13805	146087 houses	Around 448
-			884 Village		fully	crore
			Affected		damage,278217	privet and
					houses medium	public
					damage	property
					infrastructures	
					were damaged	
					to avariable	
					extent.	
Cyclone	1998	4	Gandhidham,	4000		
			Mundra, Anjar			
Cyclone	2023	-	10 Taluka,852	Read	Read Table:7	-
(Biporjoy)			Village	Table:7		
Flood	2011	3	2 Taluka	1 Death 41		18947 lakhs
			200 village	cattle loss		Rs.
Heat wave	Almost		6			
	Every					
	Year					
Cold wave						
Drought	Around		4 Taluka			
	Every 4-					
	5 Year					
Industrial						
disaster						

 Table 6: Matrix of Disasters in Past

District Disaster Management Plan of Kutch 2024

Sr.No.	Affected Taluka	Affected	Cattle	Govt. Relief Fund
		Villages	lose	
				Cattle Relief Fund- ₹.2,67,3500/-
				Shake Relief Fund-₹.1,52,000/-
				Partially Raw House Relief Fund-
				₹.7,66,500/-
1	10	852	1789	Partially Paved House Relief Fund-
1.	10		1709	₹8,28,500/-
				Complete Paved House Relief Fund-
				₹.24,000/-
				Complete Raw House Relief Fund-
				₹.7,000/-

Table: 7 Cyclone (Biporjoy)-2023

3.2 Hazard Risk Vulnerability Assessment (HRVA)

Hazard and Risk Vulnerability Assessment in this document is calculated done by creating matrix scores using the probability of occurrence of various disasters and their likely impact. Following two tables are used to calculate the values in the preceding table.

First of all, the likelihood of a hazard being converting into a disaster is calculated by reaching a consensus on probability and then assign each hazard a Probability Level, as indicated in the following table.

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

Assess the probability or "likelihood" 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.

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

Table 8: Probability Level of a Hazard becoming a Disaster

Potential magnitude or impact of each hazard is estimated and is then assigned an Impact Level as in the following table. A similar exercise can be done for other hazards in future also.

Impact	Scope	Description						
Catastrophic	5	Massive insecurity, substantial loss of life likely. Large and generalized						
		assistance urgently needed for large segments of thepopulation. Additional						
		management, administrative, and technical expertize urgently need						
		Large volumes of materials inputs needed.						
Major	4	Security threatened for large segments of thepopulation; substantial						
		impacts on vulnerable groups likely. Some loss of life likely. Lifesaving						
		programs likely needed to handle theimpact of theemergency situation.						
		Large volumes of material inputs and additional administrative staff and						
		technical expertize likely to be needed.						
Moderate	3	Security is threatened for potential target groups, some interventions may						
		be needed, particularly for groups who likely face anincreasein						
		vulnerability. The 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 theorganization 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.						

Table 9: Impact Ratings

Using the above two tables (7 and 8), we can get the Vulnerability Rankingby multiplying the probability and the impact scores (as obtained in the following table). The resulting score indicates crude vulnerability. The matrix below can be used for hazard, risk and vulnerability analysis of any disaster. Table 10 denotes the analysis of common hazards for Kutch using this matrix methodology.

Table 10: Vumerability Kanking											
Probability		Impact Rating: Class and (score)									
Rating: Class	Insignificant	Minor	Moderate	Major	Catastrophic						
and (score)											
	(1)	(2)	(3)	(4)	(5)						
Almost	Low-5	Moderate -10	Moderate -15	High-20	High-25						
certain (5)											
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						

Table 10: Vulnerability Ranking

The table below shows the risk and vulnerability analysis of the district using the above methodology. Such a matrix can be used for disaster response planning and preparedness.

Hazard	Probability	Impact	Vulnerability	Specific Locations and
Huzur u	Trobublicy	Impuct	Rating	populations of concern
			(Probability times	populations of concern
			Impact)	
Earthquake	4	5	20 (High)	Whole Kutch district come under
				Zone V Rheahau Danan Rhui and Anian
				Bhachau, Rapar, Bhuj and Anjar are more vulnerable
High Wind and	4	4	16 (High)	Bhachau, Gandhidham, Anjar,
Sea Surge			10 (1181)	Mundra, Mandavi, Abdasa and
(Cyclone)				Lakhpat are more vulnerable
Tsunami	4	3	12 (Moderate)	Coastal Talukas like Mundra,
Isunann	•	5	12 (110001000)	Mandvi, Gandhidham, Bhachau,
				Anjar, Lakhpat
Flood	1	2	1 (Low)	May occur due to very heavy
11000	1	-	1 (100)	rainfall, sea surge or tsunami
Industrial	3	4	12 (Moderate)	Gandhidham, Anjar, Bhachau,
Accident	5	т		Mundra are more vulnerable due
recuent				to closeness to industrial units
Drought	4	3	12 (Moderate)	Whole district
Heat wave	4	2	8 (Moderate)	Whole district
Cold wave	3	2	6 (Low)	Naliya, Bhuj, Mandvi, Lakhpat
Landslides	1	1	1 (Low)	Tvanya, Dhuj, Mandvi, Lakupat
Mudflows	1	1	I (LOW)	
Dam Failure	1	2	2 (Low)	District does not have any major
Dum Fundre	1	2	2 (LOW)	dams
Mine	2	1	2 (Low)	Pandro coal mines
fires/collapse	2	1	2 (10)	
Road/rail/air	3	3	9 (Moderate)	Surajbariya, Chiray village,
accident	C C	C	(1/20001000)	National Highway, Bhuj to
				Pandro highway
Oil spill	2	4	8 (Moderate)	Sea shore, coastal belt of Kandla,
(marine)				Mandvi, Mundra.
Boat Sinking	2	2	4 (Low)	Kandla, Mandvi, Mundra,
0				Jakhau port
Building	3	2	8 (Moderate)	Bhuj, Gandhidham, Anjar,
Collapse				Bhachau, Rapar, Mundra,
				Mandvi City area
Communal	3	3	9 (Moderate)	Banni area and Vagad area
Disease				-
(epidemics)				
Food poisoning	3	3	9 (Moderate)	Whole district
Animal disease	2	3	6 (Low)	Bhuj Taluka, Banni area, Gada
(epidemics)				area of Abdasa taluka
Terrorism	2	4	8 (Moderate)	Land and costal International
				border area
	-			

District Disaster Management Plan of Kutch 2024

Critical	3	3	6 (Low)	Oil pipe lines, road infrastructur	
Infrastructure				in the district	
Failure (e.g.					
extended power					
outage)					
Civil Unrest	1	1	1 (Low)	Relatively peaceful district	
War	2	5	10 (Moderate)	Whole district	

The above table can be clubbed with the following table for disaster planning.

Table 12: Frobability Feriou/Seasonality of Disasters						
Type of hazard	Time of Occurrence	Potential Impact				
Flood	June to September	Loss of life, livestock, crop and infrastructure				
Epidemics	Anytime Loss of human life					
Fire Accidents	Anytime Human Loss and house damage					
Earth Quake	Anytime	Loss of Life, Livestock, and Infrastructure				
Cyclone	April to May	Loss of Life, Livestock, and Infrastructure				
	October to November					
Drought	July-October	Damaged to crops				
Biological Hazard	Anytime	Loss of human life & livestock				

Table 12: Probability Period/Seasonality of Disasters

Table 13: List of Hazards with Probablity (frequency and magnitude) to be addressed in this

plan

Probability of Occurrence of disaster												
Type of	Time period											
Hazard	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
Earthquake												
Cyclone												
Flood												
Tsunami												
Fire												
Heat Wave												
Biological Hazard												

3.3 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.

3.3.1 Earthquake:

Different types of ground do shake with different severity of an earthquake. Softer soils and those with high water content generally shake more than rocky sites. Wherever possible site structures on the 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. Kutch District's situation indicates that some parts of the District like Bhachau, Rapar, Anjar, Bhuj, Gandhidham, Lakhpat Taluka have been adequately provided with the seismic instrumentation. 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.

3.3.2 Flood:

River flooding is a not a major hazard faced by the district as most of the rivlets are seasonal and rainfall is less. All the river systems in the District are very slow flooding. Occasional localized urban flooding happen in urban areas like Bhuj, Gandhidham, and Anjar primarily due to heavy rain and inadequate drainage and increased run-off loads in hard surfaces. But no major incidents have been reported regarding urban floods. However, cyclones can cause major flood hazards in Gandhidham which is densly habituated.

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 safeguards 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 planmanagement 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.

3.3.3 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 extratropical cyclones which lie on the synoptic scale.

Coastal areas of district like Bhachau, Gandhidham, Anjar, Mundra, Mandvi, and Lakhpat are particularly prone. Cyclones originate out at sea and become hazardous when they come ashore. They also drive the sea level up to cause coastal flooding.

At a community level, the GSDMA has proposed to provide temporary Multi-Purpose cyclone shelter (MPCS). There are 4 identified sites to construct Cyclone Shelter on Coastal Belt of Kutch District which are in Mandvi, Maska, Bharaparand Chudva. These shelters will be, with built-in safety against high wind velocity and heavy rainfall and within easy reach of the people most affected. Educational buildings or places of worship may also be designed as cyclone shelters, for evacuation and temporary occupation.

3.3.4 Chemical Disasters:

The growth of chemical process industry in Gujarat has received a dramaticaccelerated 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.

Kutch district has a specific chemical zone of factories. However, the disasterpreparedness as precautionary measures have envisaged by involving all the major Departments who are directly or indirectly responsible for Chemical hazard. Total 36 MAH units is in this district. Theprobability of chemical disaster in this district is very high.

Industries involved in the production or transportation of inflammable, hazardous and toxic materials hold the responsibility for preparing an off-site plan and communicating the same to the district collector. Simulation exercises are also undertaken in the adjoining communities.

• All transport of hazardous and toxic materials are communicating to the RTO.

• Small-scale industries releasing toxic waste in water have to be encouraged to set up common effluent treatment facility.

• A common format for chemical data sheets used by Director Industrial Safety and Health (DISH) for collect information from all industries in the district is same available with both fire brigade and police.

3.3.5 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 theearthquakeinduced 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 Kutch District is concern there are 6coastal talukas and as per analysis of Mean Sea level of Kutch District there are 72 villages of 6 coastal taluka are less than 2 km far from thesea and on less than 10 meters of height from ocean level. Most deaths caused by a tsunami are because of drowning. Associated risks include flooding, contamination of drinking water, fires from ruptured tanks or gas lines, and the loss of vital community infrastructure.

3.3.6 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, thesuccess 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 anadequate network of Paraprofessionals 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.

3.3.7 Drought:

Low rainfall coupled with theerratic behavior of the monsoon in the state make Kutch the most vulnerable to drought. Of all the natural disasters, drought can have the greatest impact and affect the largest number of people. Drought invariably has 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.

3.3.8 Fire:

Fires may be caused due to earthquakes, explosions, electrical malfunctioning and various other causes. The State shall take up adetailed 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.

Kutch district has many MAH company and oil Installation in so fire possibility is like more.

3.3.9 Thunderstorm & Lightning:

A Thunderstorm, also known as an electrical storm or a lightning storm, is a storm characterized by the presence of lightning and its acoustic effect on the Earth's atmosphere, known as thunder. Thunderstorms are responsible for the development and formation of many severe weather phenomena. Thunderstorms, and the phenomena that occur along with them, pose great hazards. Damage that results from thunderstorms is mainly inflicted by downburst winds, large hailstones, and flash flooding caused by heavy precipitation.

3.3.10 Heat Wave:

Heat wave is a hazard, which can cause a disastrous scenario. The scientific causes of Heat Wave may be meteorological, El-Nino effect and Climate Change. Mostly in the summer season, High-Pressure Zones created above ground (3-7 Km), Cold air descends, heats up and dries out while capping atmosphere above ground with little or no convection. This heat dome traps heat, dust and humidity inside the cap. Climate change can also be the cause of Heat Wave. Increased emission of GHGs, Deforestation, Urban Land Use, Anthropogenic activities and Global warming are the reason behind the warm weather.

Indicator for Heat Wave:

Indicator of Heat Wave					
(as defined by Indian Meteorological Department)					
Heat wave need not be considered till the maximum temperature of a station reaches at					
least 40°C for plains and at least 30°C for Hilly regions.					
When normal maximum temperature of a station is less than or equal to 40°C					
• Heat wave Departure from normal is 5°C to 6°C					
• Severe Heat wave Departure from normal is 7° or more					
When normal maximum temperature of a station is more than 40°C					
• Heat Wave Departure from normal is 4°C to 5°C					
• Severe Heat Wave Departure from normal is 6° or more					
When actual maximum temperature remains 45°C or more irrespective or normal					
maximum temperature, heat wave should be declared.					

Source: Indian Meteorological Department, http://www.imd.gov.in

3.3.11 Biological Disaster (Covid-19):

Biological disasters are natural scenarios involving disease, disability or death on a large scale among humans, animals and plants due to micro-organism like bacteria or virus and toxins. Corona virus disease (Covid-19) is a new strain that was discovered in 2019 and has not been previously identified in humans. The cases of Corona virus are increasing rapidly across the world. Covid-19 can spread from person to person through small droplets from the nose to mouth. India is a densely populated country and here people are getting Corona virus in rapid may be able to contain the spread of Corona virus. In the response to the growing number of casualty from Covid-19 and with the increase in frequency and severity of biological hazard, the National Disaster Management Authority has prepared Guidelines for the Corona outbreak. Considering the Guidelines provided by NDMA, 'Covid-

19' Containment Action Plan 2020' of Kutch district is prepared to contain the spread of disease and to facilitate the mobilization of stakeholders & line department, coordination among district authority.

Covid-19: COVID-19 is the infectious disease caused by the most recently discovered coronavirus. This new virus and disease were unknown before the outbreak began in Wuhan, China, in December 2019.

Incubation period: The "incubation period" means the time between catching the virus and beginning to have symptoms of the disease. Most estimates of the incubation period for COVID-19 range from 2-14 days, most commonly around five days.

Mode of transmission: The disease can spread from person to person through small droplets from the nose or mouth which are spread when a person with COVID-19 coughs or exhales. These droplets land on objects and surfaces around the person. Other people then catch COVID-19 by touching these objects or surfaces, then touching their eyes, nose or mouth. People can also catch COVID-19 if they breathe in droplets from a person with COVID-19 who coughs out or exhales droplets. This is why it is important to stay more than 1 meter (3 feet) away from a person who is sick.

Sign and symptoms of COVID-19: The most common symptoms of COVID-19 are fever, tiredness, and dry cough. Some patients may have aches and pains, nasal congestion, runny nose, sore throat or diarrhea. These symptoms are usually mild and begin gradually. Some people become infected but don't develop any symptoms and don't feel unwell. Most people (about 80%) recover from the disease without needing special treatment. Around 1 out of every 6 people who gets COVID-19 becomes seriously ill and develops difficulty breathing. Older people, and those with underlying medical problems like high blood pressure, heart problems or diabetes, are more likely to develop serious illness. People with fever, cough and difficulty breathing should seek medical attention.

High Risk Contact: Touched body fluids of the patient (Respiratory tract secretions, blood, vomit, Saliva, urine, faces) had direct physical contact with the body of the patient including physical Examination without PPE. Touched or cleaned the linens, clothes, or dishes of the patient. Lives in the same household as the patient. Anyone in close proximity (within 3 ft.) of the confirmed case without precautions. Passenger in close proximity (within 3 ft.) of a conveyance with a symptomatic person who later tested positive for COVID-19 for more than 6 hours.

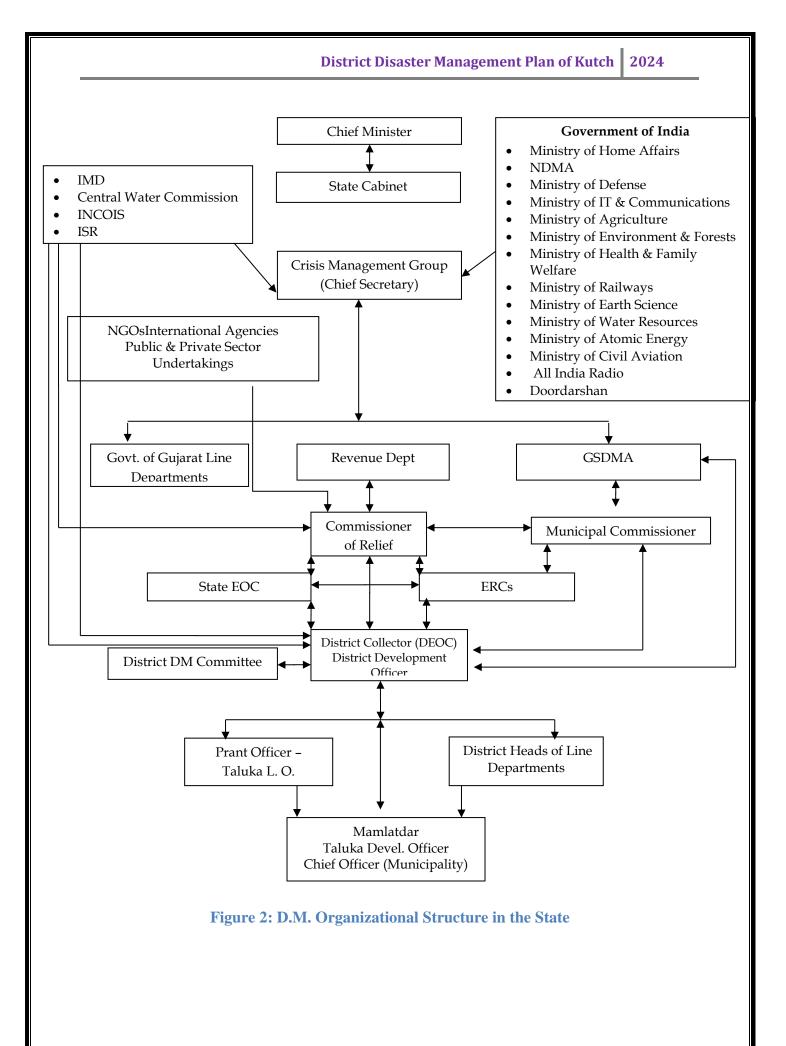
Low Risk Contact: Shared the same space (Same class for school/worked in same room/similar and not having a high risk exposure to confirmed or suspect case of COVID-19).Travelled in same environment (bus/train/flight/any mode of transit) but not having a high-risk exposure.

Chapter 4: Institutional Arrangements

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, the constitution of a State Executive Committee, the establishment of a District Disaster Management Authority in each District and creation of a District Disaster Response and 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 fresh.

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 the 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 Centers (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.



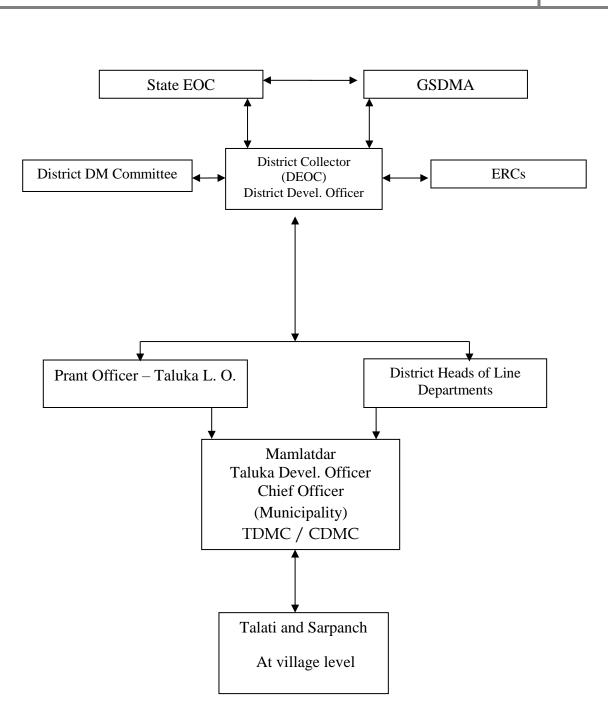


Figure 3: D.M. Organizational Structure in the District

4.1 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. The following member should beclub at district level committee.

Sr. No.	Designation	Position in DDMC
1	Collector/ District Magistrate	Chairmen
2	District Development officer	Member
3	District Superintend Police (East/ West)	Member
4	District 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-PGVCL	Member
10	District Home guard commandant	Member
11	Superintendent Civil Hospital	Member
12	Port Officer-KPT	Member
13	District Forest Officer (west)	Member
14	District Forest Officer (east)	Member
15	Dy. Director-Information Department	Member
16	District Municipality Officer	Member
17	Regional Officer-GPCB	Member
18	District Agriculture Officer	Member
19	All S D M	Member
20	Regional Transport officer	Member
21	Divisional Controller-State transport	Member
22	Dy. Controller – Civil Defense	Member
23	District Education Officer	Member
24	District Primary Education Officer	Member
25	NGO Member	Member
26	Media Person	Member

Table 14: District Disaster Management Committee

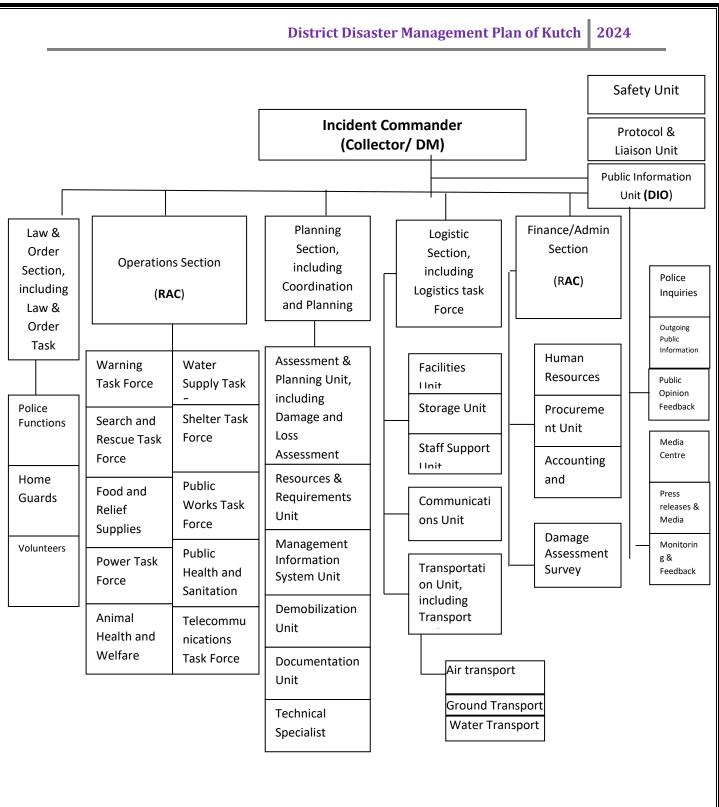
4.2 Incident Response System in the Kutch District:

4.2.1 Disaster Response and District Incident Command System:

The Guidelines on the Incident Response System (IRS) are issued by the National Disaster Management Authority (NDMA) under Section 6 of the DM Act, 2005 for effective, efficient and comprehensive management of disasters in India. The vision is to minimize loss of life and property by strengthening and standardising the disaster response mechanism in the country. The response to disasters in the district will be organized according to the Incident Command System as adapted 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 Kutch 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 <u>District Collector</u>.

The <u>organizational structure</u> of the Incident Command System of Kutch district is provided in the next page.



Abbreviations: -

DSP - District Superintendent of Police RAC - Resident Deputy Collector RAC - Additional District Collector DDO - District Development Officer DIO - District Information Officer

Figure 4: Incident Command Structure-Kutch District

4.2.2 ICS-Basic Functions:

The basic functional descriptions for key elements in the district Incident Command System is described 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 accomplished in a well-planned manner and execute an effective and cost-efficient disaster response effort.

I. <u>Incident Commander :</u>

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 assisted by 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. <u>Command Staff Units:</u>

A) <u>Safety unit:</u>

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

B) <u>Protocol and Liaison unit:</u>

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) <u>Public Information Unit:</u>

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 on 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 created 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 depend on the nature of the incident.

The District administration of Kutch has identified 16 expected task forces for key response operation functions that are described 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 supported by other organizations.

C- N-	Emergency Operation Taskforce Functions Emergency Operation Functions				
Sr. No.	Emergency Operation	Functions			
	Taskforce				
1	Coordination and Planning	Coordinate early warning, Response and Recovery			
		Operations			
2	Administration and	Support Disaster Operations by efficiently completing the			
	Protocol	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	Provide human and material resources needed to support			
	(including Evacuation)	local evacuation, search and rescue efforts.			
6	Public Works	Provide the personnel and resources needed to support local			
		efforts to re-establish 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	Provide personnel and resources to address pressing public			
	Sanitation (including First	health problems and re-establish normal health care systems.			
	aid and all medical care)				
11	Animal Health and Welfare	Provision of health and other care to animals affected by a			
		disaster.			

Table 15: Emergency Operation Taskforce Functions

12	Shelter	Drovida materials and sumplies to ansume termoremy shalter
12	Sheller	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	Collect and analyze data on the impact of the disaster,
	Assessment)	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
		supporting 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 executed and coordinated through the ICS/GS system. For example, in flood, search and rescue would come under the Operations section, Transport would come under the Logistics Section and Public Information under the Public Information Unit.

V. <u>Planning Section:</u>

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. <u>Logistic Section:</u>

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

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

VII. <u>Finance and Administration:</u>

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 is accomplished through following units:

- 1. Human resources
- 2. Procurement
- 3. Accounting and records

Table 16: Cross-Task Force Action Matrix

(Gray areas indicate where cooperation between task forces was not as needed during action plan development.)

Task Force	Warning	Law & Order	& Evacuation	SAR	Public Works	Water	Food & Relief Supplies	Power	Health	Animal Health	Shelter	Logistics	Damage Assessment	Telecommunications	Media
Coordination & Planning															
Warning															
Law & Order															
S & R/Evacuation															
Public Works															
Water															
Food & Relief Supplies															
Power															
Health															
Animal Health															
Shelter															
Logistics															
Damage Assessment															
Telecommunications															

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

Table 17: Taskforce, supporting organizations vis-a-vis ICS/GS section matrix

4.3 District Incident Command Structure-Key Officers:

Incident Commander District Collector, 9978406213 **Alternate Incident Commander** – Resident Additional Collector, 9978405212

			nd Structure-Key Officers	
Sr.	Taskforce	Taskforce	Taskforce	TASKFORCE-
No.		Operation	leader/Contact	Alternate
		Room/Contact	Number	LEADER
		Number		/Contact Number
1	Incident Commander	District Collector	99784 06213	9978405212
2	Alternate Incident	Resident	99784 05212	
	Commander	Additional		
		Collector		
3	Warning and	RAC Office	RAC	Mam. Disaster
	Communications		02832 250650	Management
			099784 05212	93275 500801
				02832-252347
4	Law & Order	Police Control	DSP	Dy. SP
		Room (CR)	02832 250444	02832 250444
			99784 05073	F: 02832 250427
			99784 05690	
5	Search & Rescue	Dy. Collector Civil	Chief fire Officer or	District
		Defense	Deputy Collector (Civil	Municipality
			Defense)-	officer
			02832 230603	
6	Public Works	R&B-CR	Ex. Engr, R&B	Dy. Engr.
			02832-251450	02832-221103
			98292 32939	
7	Shelter	Primary	District Primary Edu.	Dy. District
		Education. Office-	Officer	Primary Edu.
		CR	02832 250156	Officer
			99099 71683	02832 250156
8	Water Supply	GWSDB-CR	Ex. Engr. GWSDB	Ex. Engr.
			99784 06534	GWSDB
9	Food & Relief	DSO-CR	District Supply Officer	Dy. DDO officer
	supplies	&DDO office	02832-221453	98798 90124
			94083 08508	
10	Public Health &	District Health	CDHO	Add. CDHO
	Sanitation	Centre,	02832-252207	02832 252207
11	Power	PGVCL	Supt. Engr. GEB	Ex. Egg. GEB
			02832-224580	02832-253752
			70690 09787	
12	Logistics	DDO office	DDO	Dy. DDO/
		75670 20037	02832-250080	02832-251150
			99784 06238	

Table 18: District Incident Command Structure-Key Officers

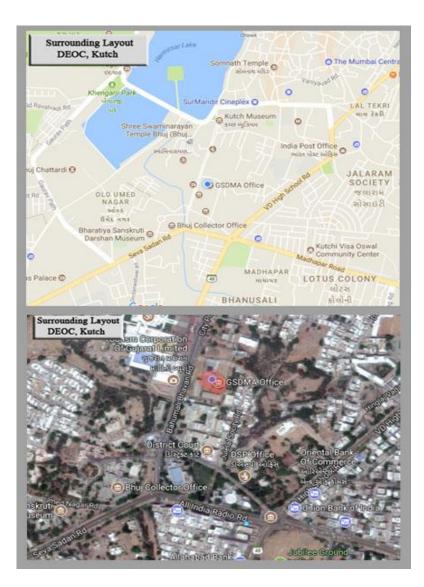
13	Animal Health &	AH Office	Dy. Director, AH/	Ass. Director AH
	Welfare		02832-221650	02832-221650
			9426704429	
14	Damage	RAC office	Addl. Collector/	Mamlatdar
	Assessment/Survey		02832-250650	Disaster
			99784 05212	Management
				02832-250923
				02832-224150
15	Media/public	Information Dept.	District Info Officer/	Dy. DIO/
	Information	CR	02832-224859	02832-224859
			94272 36878	
16	Planning and	Collector office	Collector/	RAC
	coordination		02832-250020	02832-252704
			99784 06213	99784 05212
17	Finance/	RAC office	RAC	Mamlatdar
	Administration/		02832-250650	Disaster
	protocol		99784 05212	Management
				02832-250923
				02832-224150-F

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

4.4 District Emergency Operation Centers/Control Rooms (DEOC):

The District Control Room is located at Near Bhada office, opposite New Swaminarayan Temple. 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 aposition in the District Control Room along with Incident Commander to enable one-point coordination for the decision-making process.



4.4.1 Design and Layout of DEOC, Kutch:

The layout and infrastructure of the DEOC, Kutch is designed as per the Emergency Guidelines prepared by Gujarat State Disaster Management Authority (GSDMA) and National Disaster Management Authority (NDMA), Delhi. The DEOC of Kutch is fortified with all basic and latest technology to operate during emergency situation. DEOC is also equipped with advance and latest communication and IT service system e.g. Computers, LED sets, emergency lights, Generator, Telephone sets, Camera and TV.

• Facilities at District Emergency Operation Centers

Sr. No.	Item/ Facility	Unit/ Number of item
1	Telephones	2
2	Handheld Radios and Base Stations	1
3	Satellite Telephone	2
4	PC with GSWAN Internet and website facilities	1
5	Marker board	1
6	Conference table	1

Table 19: Equipment in District Control Room

7	A copy of Disaster Management Plan	3
8	Drawings showing Disaster information	10
9	Other relevant documents of district information	
10	Chairs	16
11	Fax machine	0
12	Printer	1
13	Scanner	1

4.4.2 Role and Objectives of DEOC, Kutch:

The role of District Emergency Operation Centre is very important during Emergency Operation activity in the district. During the time of Disaster impact and normal time there are different roles and objectives of the DEOC which are following;

- During the disaster impact, DEOC would act as the main control center to operate emergency situation.
- Disaster Risk Management within the district would be implemented, monitor and coordinate from District Emergency Operation Center.
- DEOC coordinate the actions of different line agencies or departments during the disastrous situation.
- DEOC helps to increase the coping capacity of the society and encourage the people and stakeholder of the various departments within the districts to prepare their primary action plans for the specific hazard and receive reports of their preparedness. Subsequently, DEOC sends these reports to GSDMA.
- DEOC of Kutch acts as a data bank for various departments with respect to vulnerability and risk and gives importance to mitigation measures in the planning procedure.
- A web-based inventory for all resources available with all related department within the Kutch district is maintained by DEOC and update it through the State Disaster Resource Network (SDRN).
- DEOC accept suitable proposals on disaster mitigation measures, risk reduction and preparedness from different agencies and due approval by Deputy Commissioner is it place the same for consideration of the chief secretary.
- Ensure the communication, warning systems and instruments are in working conditions in all line departments.
- Monitor preparedness and mitigation measures by various industries and departments at the district levels including simulation exercise undertaken by different agencies.
- Relay disaster-related information at the district level, local level and to disaster vulnerable areas through suitable media. Give information to media about the situations and during disasters prepare day to day reports and inform the actual scenario and various actions taken by District administration.
- Maintain the database of trained volunteers and personnel and concerned departments who could be contacted during or before the disaster.

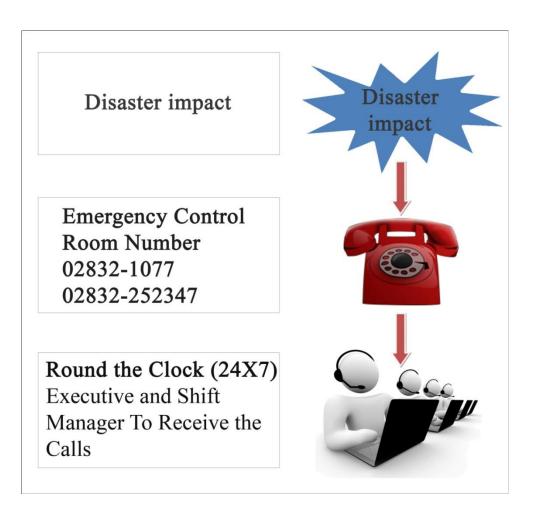


Figure 5: Functions of DEOC, Kutch

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 and 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
- o Facsimile
- Satellite Phone (if needed)

- o Handheld Radios/Base Stations
- Markerboard (1)
- A copy each of Disaster Management Plan and Task Force Plan
- o Other relevant documents, if any

• Facilities at Taluka Level Control Rooms (TLCR)

The following facilities are maintained inside TFCR:

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

The 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:

The 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 acollapse of any communication facility/Communication infrastructure as a cascading effect/consequence of the 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 of communication in respective groups. The table below shows the allotted frequency channel for individual Task Force. All the sets are programmed for different groups' frequencies to facilitate horizontal communication among the different task groups.

Sr. No.	Task Force / Functional Area	Channel
1.	DCR	1
2.	Law and Order and its TFOR	2
3.	Search and Rescue and its TFOR	3
4.	Public Works and its TFOR	4
5.	Shelter and its TFOR	5
6.	Water Supply and its TFOR	6
7.	Food and Social Service and its TFOR	7
8.	Power and its TFOR	8
9.	Public Health and Sanitation and its TFOR	9
10.	Logistics and its TFOR	10
11.	Animal Health and Welfare and its TFOR	11
12.	Relief Supplies and its TFOR	12
13.	Communication and its TFOR	13
14.	Survey and its TFOR	14
15	Taluka Level Control Room (TLCR)	15

At present, "Satellite Phone" provided by GSDMA is with District Magistrate and "Handheld radio" sets are with the District Magistrate, DDO, DSP, fire Brigade and Forest department. If possible, Health Personnel may be given these sets later.

Telephones

Telephones and Fax Machine had provided at DEOC and all TEOCControl Rooms.

4.5 Alternate EOC Available and Its Location:

The Kutch District Control Room is located at Near Bhada office, opposite New Swaminarayan Temple. 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 be 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 the 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 carrying the handwritten messages to persons concerned in dealing with the disaster.
- A dedicated vehicle shall be made available by the Transport Task Force Leader upon request

The right use of a Communication facility

- The sense of urgency that everyone experiences during adisaster 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.

4.6 Public and Private Emergency Service Facilities Available in The District:

Kutch district has 6 Fire Stations in Respective 6 Municipality and in addition, the district has one Emergency Response Center (ERC) located in Gandhidham. This emergency service is fully equipped with various equipment and train personnelwhich is search and rescue operation during adjaster situation.

4.7 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;

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

Table 21: Forecasting	and Warning A	Agencies
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Chapter 5: Prevention and Mitigation Measures

5.1 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 on engineering structures to reduce hazard risks. Nonstructural mitigation includes awareness and capacity building at official and community level, formulation of new plans and overall promoting a commitment to safety.

Mitigation measures can be divided into 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 not structural mitigation plans in consultation and convergence with various Departments. For example, the MGNREGA work can take up activities on the 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.

5.2 Hazard wise Structural and Non- Structural Mitigation Measures: Hazard: Flood

Probable Mitigation	Implementing	Convergence with Scheme/	Time
Measures	Departments	Program	Frame
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, Integrated coastal zone management program	Regularly
Repair of embankments/ protection wall	Rural Development, R&B department	Departmental program & MGNREGS	Regularly
Repair and maintenance of Flood Channels, canals, natural drainage, stormwater lines	Irrigation department Concern Municipality	Departmental or special plan	Regularly
Construction of Safe Shelters (new construction through Pradhan Mantri Awas, Sardar Awas, and Ambedkar Awas)	Collector and R&B District Panchayat	NCRMP	Regularly
Protection wall and mangroves and vegetative cover against sea level intrusion and land erosion	Forest and Rural development department GEC	Department schemes, MGNREGA, IWMP Integrated coastal zone management	Regularly
Desalting of water bodies like river and ponds	Irrigation DDO Rural Development	MGNREGA and Land Development	Regularly

Table 22: Structural Mitigation Measures for Flood

Non-Structural	Implementing	Convergence with	Time
Measures	Departments	agency/program	Frame
Safety audit of existing and proposed housing stock in risk prone areas	DDO, Rural development	PMAY, Sardar Awas, and other rural housing schemes	Regularly
Promotion of Traditional, local and innovative practices like bamboo/plastic bottle rafts etc, clean city green city	DDMC, TDMC, CDMC, SHGs and youth groups, NGOs Volunteers	Training and capacity building plan for disaster management At all level	Regularly
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

Table 23: Non-Structural Mitigation Measures for Flood

Hazard: Cyclone

 Table 24: Structural Mitigation Measures for Cyclone

Structural measures	Identified Locations and Villages	Implementing Departments	Convergence with Scheme/Program	Time Frame
Plantations	Cyclone	Forest department,	Departmental	Regularly
(mangroves) and	prone 72	Port Authority, DIC,	schemes,	
Shelter Belt in the	villages	TDO, Rural	MGNREGA	
Coastal Area	Kutch	development	Integrated coastal	
	district	department, GEC	zone management	
Identification and		R & B (District	Departmental	Regularly
repair/ retrofitting of		Panchayat)	Scheme	
houses and buildings				
unsafe for cyclone				

Four villages have been selected for the Multi-Purpose Cyclone Shelter (MPCS) which are shown below;

Sr. No.	Taluka	Village	Distance
1.	Mandvi	Mandvi (M)	3 km
2.	Mandvi	Maska	3 km
3.	Gandhidham	Bharapar	15 km
4.	Gandhidham	Chudva	10 km

Non-Structural Measures	Location/ coverage area	Implementing Departments	Convergence with agency/ program	Time Frame
Strengthening of Early	Cyclone	DDMC, TDMC	District	Regularly
warning mechanisms	prone 72		administration	
	villages		Line department	
Training and awareness		DDMC, TDMC,	TDMP, VDMC	Regularly
generation for use of	In Kutch	VDMC, CDMC		
safety	district			
jackets/rings/buoys/rope				
etc for fisher folks				
Enforcing strict		Department of	Integrated Coastal	Regularly
compliance to coastal		Environment &	Zone Management	
regulation zone and		Forest	CRZ Regulation	
awareness regarding		Depart. Fishing		
hazard		GEC		
Registration of fishing		Fisheries	CRZ Regulation	Regularly
boats		Department		
Regulate and issue orders		R&B Department		Regularly
for poor quality				
hoardings/buildings or any				
other objects				

Table 25: Non-Structural Mitigation Me	easures for Cyclone
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Hazard: Earthquake

Structural measures	Identified Locations and Villages	Implementing Departments	Convergence with Scheme/ Program	Time Frame
Retrofitting (if required) of	Earthquake-	R & B (State and	Town Plan and	Regularly
public utility buildings like	prone10	Panchayat), DDO,	all development	
offices,	Taluka under	Rural department	plan	
schools/banks/markets etc	zone 5In			
Retrofitting of unsafe rural	district	DDMC, DDO,	Rural housing	Regularly
houses		R & B State and	schemes and	
		panchayat	departmental	
			programs	
Identifying and safely		R & B department	Development	Regularly
dismantling unsafe structures			plan	
Issue permission for		Area Development	TP plan	Regularly
Earthquake registrant house		Authority		
Table 27: Non-Structural Mitigation Measures for Earthquake				
Non-Structural Measures	Location/ coverage area	Implementing	Convergence with agency/ program	Time Frame

Capacity building of architects, engineers, and masons on	EQ prone 10 Taluka under	R & B (State and panchayat)	DRM, DRR, special training	Regularly
earthquake resistant features	zone 5	DDMC, TDMC,	programme	
carinquake resistant reatures	zone 5	CDMC, TDMC,	programme	
Registration of trained and		R & B (State and		Regularly
certified Mason		Panchayat),		
		DDMC		
Strict enforcement of guideline		DDO, DDMC,	Rural housing	Regularly
pertaining to seismic safety for		CDMC, TDMC,	schemes	
government rural housing, urban		VDMC		
development structure				
Mock-drills for Schools, Hospitals		DDMC, Schools	DRM, NSSP,	Regularly
and, Public Buildings and training			DRR	
for Mason, engineers, and			DM regulation	
architects				

Hazard: Drought

Structural measures	Identified Locations and Villages	Implementing Departments	Convergence with Scheme/ Program	Time Frame
Development of Pasture land in	Drought-	Forest, Rural	Departmental	Regularly
common property, seed farms, and	proneTaluka	Development,	Scheme,	
trust land	:5 in district	Panchayat	MGNREGA	
Rain Water Harvesting storage		GWSSB,	MGNREGA,	Regularly
tanks at household level and		(WASMO), Rural	Swajaldhara	
public buildings		Development		
Structures for water harvesting		DDO, Rural	MGNREGA,	Regularly
and recharging like wells, ponds,		development,	Watershed	
check dams, farm ponds, etc		irrigation	program,	
		department	departmental	
			schemes	
Development of fodder		DDMC, Forest	Development	Regularly
plots/banks		department, animal	plan	
		husbandry		
		department		
Repair and maintenance, de-sitling		Irrigation, Rural	MGNREGA,	Regularly
of water sources, check dams,		Development	Watershed	
hand pumps etc.		_		
Table 29: Non-Structural Mitigation Measure for Drought				
	Locations/		Convergence	

Table 28: Structural Mitigation Measures for Drought

Non-Structural MeasuresLocations/area	Implementing Departments	Convergence with agency/ program	Time Frame
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Non-Structural Measures	Locations/ coverage area	Implementing Departments	Convergence with agency/ program	Time Frame
Listing/developing shelf of work	Drought-	Rural	MGNREGS	Regularly
for drought-proofing/scarcity works	proneTaluk	Development		
including identification of potential	a:5 in			
sites of water bodies	district			
Farmer education to practice		Agriculture &	Departmental	Regularly
drought-resistant crops and efficient		horticulture	schemes	
water use		department		
Setup control mechanism for		Panchayat		Regularly
regulated water use (ponds, small				
dams, check dams) on the early				
onset.				

Table 30: Hazard: Industrial (Chemical) Structural Measures(In coordination with LCMG, 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 (groundwater 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 health)	Industrial act	Regular intervention
Protection wall	Build protection wall for minimize risk of disaster	Industrial unit	Industrial act	Regular intervention

Nonstructural Measures	Activities	Implementing Departments	Agencies	Time Frame
Planning	Prepare an onsite and offsite	Occupier,	Various	-
	emergency plan	DISH	Industrial act	D 1
	Conduct mock drills as per the	DISH and	Various	Regular
	regulations	LCMG	Industrial act	intervention
	Update the DM plan as per the	Occupier,	Various	Industrial Act
	requirement	DISH	Industrial act	
	Monitor similar activities in all the	DISH and	Various	Industrial act
	factories/ industries	LCMG	Industrial act	
Capacity	Develop Information Education and	TDMC	Various	Industrial act
Building	Communication (IEC) material for		Industrial act	
	Publication & Distribution			
	Awareness generation to general	TDMC,	Various	Industrial act
	public and medical professional	LCMG	Industrial act	
	residing near MAH factories for			
	immediate steps			
	Organize training programmers,	TDMC,	Various	Industrial act
	seminars, and workshops (e.g. for	LCMG	Industrial act	
	drivers of HAZMAT transport, line			
	departments officers, Mamlatdar etc)			
	List of experts/ resource person/	TDMC,	Various	Industrial act
	subject specialist (District	LCMG	Industrial act	
	emergency Off-site plan)			
	Encourage disaster insurance	Labor&	Various	Industrial act
		employment	Industrial act	
		department		
Medical	Listing of hazardous chemicals and	Occupier,	Various	Industrial act
i i caicai	gases.	LCMG,	Industrial act	industrial act
	Subob.	DISH, THO	industrial act	
	Keep check on availability and	Occupier,	Various	Industrial act
	validity of relevant antidotes for	LCMG,	Industrial act	industrial act
	chemical hazards prevalent in Taluka	DISH, THO	industrial act	
	Workshops and training for medical	THO,	Various	Regularly
	professionals to handle potential	Occupier,	Industrial act	Regularly
	chemical and industrial hazard	LCMG,	moustrial act	
	chemical and moustrial nazard			
Committee		DISH	V	D 1 .
Compliance	Environmental Protection Act,	DISH,	Various	Regular
	Factory Act,	GPCB	Industrial act	interval
	Mutual Aid			
	SOPs			

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 (LCMG) is formed for coordination of activities and executing the operations.

Hazard: Tsunami

Structural measures	Identified Locations and Villages	Implementing Departments	Convergence with Scheme/ Program	Time Frame
Constructing shelter belts	Tsunami prone	Rural	Departmental	Long-term
in coastal areas	72 villages	Development	programs,	planning
			MGNREGA	
Contraction Sea water		R & B State and	Departmental	Long term
brake structure		Panchayat	programs,	planning
			MGNREGA	

Table 32: Structural Mitigation Measures for Tsunami

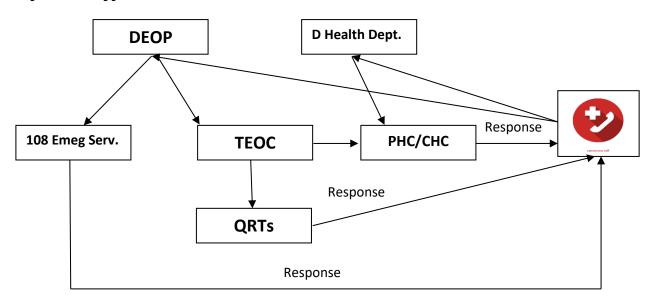
Non-Structural Measures	Locations/ coverage area	Implementing Departments	Convergence with agency/program	Timeframe
Provisions of Coastal	Tsunami	Department of	ICZMP	Long term
Regulation Zone to be	prone 72	Environment &		planning
effectively implemented	villages	Forest		
		GEC		
Capacity building of task		TDMC,	DRM	Periodically
forces in coastal villages		DDMC,		
		CDMC,		
		VDMC		
Awareness activity in prone/		DDMC ,	DRM	Regularly
vulnerable area		TDMC,		
		CDMC,		
		VDMC		

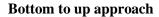
Table 33: Non-Structural Mitigation Measures for Tsunami

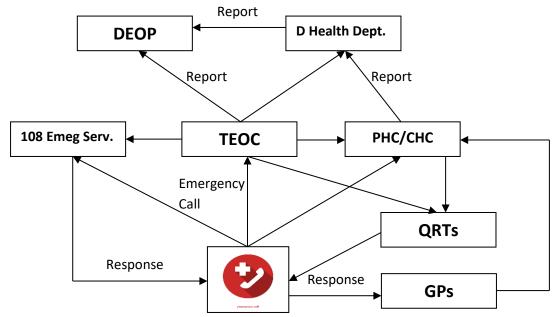
Hazard: Heat Wave

Administrative approach for Non-Structural Mitigation Measure for Heat-wave

Top to down approach







5.3 Special Projects and Ongoing Programmers for Preventing the Disasters:

5.3.1 Disaster Risk Management Programme (DRMP)

Disaster Risk Management Programme (DRM) has taken strong roots at various levels of administration in Gujarat. The Department of Revenue and 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 Community Based Organizations (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 and Resource Mobilization, Disaster Awareness through Orientations, Campaigning, Media Management and IEC distribution. Coordinate District Administration for all Disaster Management Activities with expertize knowledge, logistics, and fund allocation.

1. National School Safety Programme:

A national school safety programmer is a pilot project of NDMA and Government of India. Under a project Kutch and Jamnagar are selected from Gujarat stateand 200 schools selected from Kutch District. NSSP project focus of School Safety and done a various activity like the Capacity building of Teacher, student, Awareness programme at school level on Disaster management, conducting hazards wise mock drill, preparation of school disaster management plan etc.

2. National Cyclone Risk Mitigation Project (NCRMP):

Gujarat being prone to cyclones, it is the topmost priority of the State Government to reduce the effect of the cyclone and minimize the loss to property and lives in the coastal regions of the State through the creation of suitable infrastructure. Gujarat has therefore been included in the NCRMP initiated by the National Disaster Management Authority and funded by the World Bank. Under NCRMP project various activities will carry out like Construction of Multi-Purpose cyclone shelter (MPCS) for selected area. In Kutch district, 4 villages are selected for this project.

5.4 Structural: Structural Mitigation Measures

a. Retrofitting of Buildings:Kutch district comes in Zone V in Earthquake. In Kutch region maximum buildings are engineered or, havinggood seismic resistant capacity. There are mainly four major types of constructions:

Category A: Adobe, fieldstone Masonry Buildings Category B: Brick Construction Masonry Buildings Category C: R. C. C. Construction Category X: Traditional and Conventional Construction

The buildings of Category A are very weak and may be damage even due to a lower intensity earthquake. There is a need for detailed assessment of buildings, which are vulnerable and may cause losses to life. Assessment of these buildings will help to evolve a strategy for their retrofitting.

After assessment of the vulnerability of buildings, the priority for structural mitigation has to be defined. Generally, public buildings are given first priority because they are lesser in number and at the time of disaster, people can take shelter in these public buildings. Some examples of important buildings are hospitals, clinics, communication buildings, fire and police stations, water supply, cinema halls, meeting halls, schools and cultural buildings such as museums, monuments, and temples. The second priority goes to other type of buildings like housing, hotels, offices, warehouses, and factories.

- **b. Construction control:** The best protection against earthquake is a strong built environment. The quality of buildings, measured by their seismic resistance is of fundamental importance. Minimum design and construction standards for earthquake and flood resistant structures legislated nationally are an important step in establishing future minimum levels of protection for important structures. India now has building codes and regulations for seismic and flood-resistant design. These codes are under constant review by the experts. The below-mentioned building codes are generally practiced in India:
- IS: 1893, 1984 Criteria for earthquake resistance design of structures
- IS: 13828, 1993 Guidelines for improving low strength earthquake resistant masonry buildings
- **IS: 13920, 1993** Ductile detailing of reinforced concrete structures subjected to seismic forces- code of practice
- IS: 13827, 1993 Guidelines for improving earthquake resistance of earthen buildings
- IS: 13935, 1993 Guidelines for repairing and seismic strengthening of buildings

In building by-laws and the Seismic Code must be enforced by the municipal, Area Development Authority and Panchayat bodies.

5.5 Non-structural:

Land use planning: Damage to a building depends primarily upon the soil conditions and topology of the area. Kutch district comes under High-risk zone in terms of earthquake (Zone 5)

Training and awareness programmers: Mitigation also includes training of people for making the houses safe from earthquakes and floods. Training modules have to be prepared for different target groups viz. engineers and masons about safe building practices and general 'do's and don'ts' for the public.

Mitigation strategies

The mitigation strategy for Kutch district involves the following elements:

- Further growth of human settlements in the low-lying areas should be check through land-use planning. Such areas are vulnerable not only from flood hazards but are also vulnerable to earthquake liquefaction, which may increase the damage manifold. The department of Town and Country Planning will take care of seismic hazards while preparing the development plans for the district;
- Appropriate building codes will be made applicable for new engineered and non-engineered constructions and should be strictly enforced by the local body. The Municipal Corporation of local area will ensure the construction as per Indian Standard Building Codes;
- Infrastructure department will do the retrofitting of public buildings under their maintenance charge. Generally, PWD, Rural Engineering Services, and Housing Board maintain the public buildings. The expenditure for such retrofitting will be taken care under maintenance head.

- Community awareness will be rising regarding seismic-resistant building construction techniques and seismic retrofitting of existing buildings. Housing Board will be the nodal agency to provide training through workshops and demonstrations. PWD and RES will support MPHB in these efforts;
- Community awareness will be raised regarding 'do's and don'ts' in the event of an earthquake with the involvement of Panchayati Raj institutions and CBOs. Revenue department will be the nodal agency for this activity.

5.6 Development Schemes:

MGNREGA:

The MGNREGA achieves twin objectives of rural development and employment. The MGNREGA stipulates that works must be targeted towards a set of specific rural development activities such as water conservation and harvesting, a forestation, rural connectivity, flood control and protection such as construction and repair of embankments, etc. Digging of new tanks/ponds, percolation tanks and construction of small check dams are also given importance. The employees are given work such as land leveling, tree plantation, etc. It has a very broad spectrum which can be used for the benefit of the population that are vulnerable and are likely to be affected.

1. Construction of Tube wells can be done.

2. The building of Roads for places which are not connected to other parts of the district.

3. Leveling of low-lying areas during the flood to a higher level to prevent those areas.

4. Construction of check dams and embankments and drainage systems to prevent flooding of those areas.

Pradhan Mantri Awash Yojana:

This scheme can be used for the rehabilitation of the affected villages by making constructions for the affected population.

Sarva Shiksha Abhiyan:

This scheme can be used for creating awareness about mitigation and preparedness about accidents that are in control of man, in collaboration with educational institutions to the people so that they can make use of it when required.

NRHM:

National Rural Health Mission scheme can be used to facilitate for voluntary first aid during a disaster and training the local population to deal with minor injuries so that they do not have to wait for professional help to help any individual. Training of nurses can be carried out as a preparatory plan.

Mukhyamantri Avas Yojana:

The scheme can facilitate the rehabilitation programs among the affected villages or the ones that are likely to be affected and lie in the vulnerable zone. They can come up with collaboration with the construction norms.

Jal- Abhishekh Abhiyan:

The aim of the scheme is to provide safe drinking water so it can be used to provide for clean drinking water during response and relief period. It can work in collaboration with sanitation systems during relief period and help in avoiding any kind of future epidemics in the affected region.

Samagra Swachta Abhiyan:

This scheme can also be used for providing sanitation in the relief camps to the affected population. Since relief camps are the places where a lot of diseases and epidemics may break out, proper defecation and sanitation should be ensured by this scheme.

Madhyanah Bhojan Karyakram:

The scheme can provide for food supply during emergency situations in the affected areas or even in the relief camps.

Risk Management Funding

Short term provisions are expected to cover the immediate loss, incurred due to disasters. Whereas long term provisions include the set up of fire stations, watershed management, planting trees along the river etc.

Insurance schemes are an important source of funds for the restoration of private business enterprises. The Collector will coordinate with Insurance Companies to speed up the settlement of insurance claims. It will help in the restoration of private business enterprises. He will also coordinate with commercial banks for ensuring smooth flow of financial assistance from commercial banks for the restoration of private business enterprises.

Agriculture department shall provide seeds and the required finance as loans through local banks for the resumption of agriculture activities. The district administration shall elicit the support funding of agencies like Care, CRS etc. for the resumption of agriculture and livelihood activities.

Revenue/Book Circulars contains standing instructions of the Government for distribution of exgratia payments to poor families, who suffer from disasters to initiate their recovery process. This assistance will be provided very promptly to the poor families by the functionaries of the Revenue Department.

Over and above the softer issues highlighted above, GSDMA has provided all the existing Government schools in Gujarat with ISI marked portable Water-CO2 type of Fire Extinguisher (31746 Government schools covered of which 1732 are primary and 410 are secondary and higher secondary schools). For the necessary guidance/instruction for use of fire extinguishers, GSDMA has prepared an 18-minute short education film in Gujarati on fire safety for schools. This was shown to all government primary schools through the satellite network.

5.7 Prevention and mitigation responsibility of each department:

<u>Agriculture</u>

Prevention Activities:

- Awareness generation regarding various plant diseases, alternate cropping practices indisaster-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, andother 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 thefarmers and department officers to adopt contingency measures and take up appropriate 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 and development of a dynamic response plantaking 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.

Health Department

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 duringemergencies for transport of injured

Preventive activities During Epidemics:

- 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 toimprove the capacity of surveillance and control of epidemics
- Establishing testing laboratories at appropriate locations to reduce the time taken for earlydiagnosis 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 preparednessmeasures 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 controland ultimately eradicate the epidemic
- Identification of appropriate locations and setting up of site operation camps for combatingepidemics
- 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

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 and 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

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 equipment while modernizing existing infrastructure and equipment for disaster response along with regular training and drills for effective handling of these equipment.
- Focus on better training and equipment for RAF for all types of disasters.
- Rotation of members so that the force remains fighting fit.
- Ensure that all communication equipment including wireless is regularly functioning and deployment of extra wireless units in vulnerable pockets.
- Ensure interchangeability of VHF communication sets of police and GSDMA supplied units if required.
- Keeping close contact with the District Administration and Emergency Officer.
- Superintendent of Police is 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 and other support to armed forces during emergencies.

Civil Defense:

Prevention Activities

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

Fire Services:

Prevention Activities:

- Develop relevant legislations and regulations to enhance adoption of fire safety measures.
- Modernization of fire-fighting equipment and strengthening infrastructure.
- Identification of pockets, industry, etc. which highly susceptible to fire accidents or areas, events which might lead to fires, building collapse, etc. and educate people to adopt safetymeasures. Conduct training and drills to ensure a 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 and police networks.
- Training of masons and engineers in fireproof techniques.
- Making clearance of building plans by fire services mandatory.

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 notdamaged during storage, especially precautions against moisture, rodents, and fungus infestation.

Public Works/ Rural Development Departments

Prevention Activities:

- Keep a list of earth moving and clearing vehicles / equipment (available with Govt. Departments, 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.

Energy: PGVCL:

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 equipment and organize training of electricians accordingly.
- Develop and administer regulations to ensure the 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 a 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, and strengthen electric distribution system to ensure minimum damages during natural calamities.
- Conduct public/industry awareness campaigns to prevent electric accidents during normaltimes and during and after a natural disaster.

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 and rescue operation and hire their services during emergency
- •

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 the emergency operation.
- Safety accreditation, enforcement, and compliance
- Ensuring vehicles follow accepted safety standards.
- Build awareness on road safety and traffic rules through an 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.

Panchayati Raj Institutions

Preventive Activities

- Develop prevention/mitigation strategies for risk reduction at the 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 and rescue equipment, 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 prioritise prevention and preparedness activities while ensuring active community participation.

Information and 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 Liaisoning with the media

Chapter 6: Preparedness Measures:

6.1 Formation of Person training for Search and 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 and rescue mission.

The tactics used in the search and rescue process vary accordingly with the type of disaster that we are dealing with. In the case of flood, a boat and trained swimmers are a must while in the 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 the 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.

Table 34: Search and Rescue (S&R) Team

Designation of trained S&R Team member

The Search and Rescue team is formed as and when required and the members and equipment 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.)

6.2 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 lock 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.

6.3 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.

The 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 roles 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 the 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 learned
- 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. The 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 an evacuation.

Basic consideration for Evacuation

The DCG will define the 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 a number of people for evacuation, the destination of evacuees, lead-time available, welfare requirements of evacuees as also identify resources to meet the needs of victims, viz. manpower, transport, supplies equipment, communications and security of the evacuated area.

The evacuation 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 the 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 mention as below:

- 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 unrated or affected due to earthquake
- Need to activate evacuation plan
- Do's and Don'ts to ensure appropriate response
- Advice to the people about further warnings to be issued, if any

6.4 Damage and 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 phase's viz. Rapid Damage Assessment and Detailed Damage Assessment.

<u>Training Need Analysis -Education and Capacity Building and Arrangement for</u> 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 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.

Sr. No.	Task / Activity	Responsibility
1	Training to civil defense personnel in various aspect of disaster management	Home Department
2	Training to home Guards personnel in various aspect of disaster management including search and rescue	Dy.Controller Civil Defense District Home Guards Commandant
3	Training to NCC and NSS personnel 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 personnel in various aspect of disaster management	Fire Dept, CDMC DDMC
7	Training to police and traffic personnel 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

Table 35: Training, Capacity building, and other proactive measures Training

Task	Activity	Responsibility
Information, education, And	Advertisement, hoarding,	• Information Dept.
communication	booklets, leaflets, banners, shake-	• Education Dept.
	table, demonstration, folk dancing	• All line dept
	and music, jokes, street play,	• Dist. Collector
	exhibition, TV Spot, radio spot,	Chief officer
	audio-visual and documentary,	• Other Dist. Authorities
	school campaign, Rally,	
	- Planning and Design -	
	Execution and Dissemination	

Awareness

6.5 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 the operational period in an area. If the incident grows in size and extends throughout many jurisdictions, multiple incident commanders can be used with an area command authority may be established to coordinate among the incidents. Incident Commander requires the following Command Staffs to support him, which is 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 the 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.
- 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, equipment, 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 professionalize the same by drawing upon the principles of the ICS with suitable modifications. The ICS is essentially a management system to organize various emergency functions in a standardized 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 the local level to support the DEOC's requirements for field information and coordination. The DEOC 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

6.5.1 Checking and certification of logistics, equipmentand stores:

Kutch 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)

6.5.2 Operational check-up of Warning System:

The warning system is 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.

6.5.3 Operational check-up for Emergency Operation Centre:

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

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 avery important activity and response during adisaster. DDMA also organized capacity-building programmers, awareness programmers on Disaster Management for NGO and Voluntary group. For thearrangement 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)

6.6 Awareness Generation: -

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

6.7 Seasonal preparedness for Seasonal Disasters 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 of Collection Management are maintaining a loss prevention plan for seasonal disasters.

Hazards from these storms come in many forms including high winds, tornadoes, stormsurges, 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.

6.7.1 Identifying Risks:

A prudent first step is to list geographic and climatic hazards and other risks that could jeopardize the building and collections. These might include geographical susceptibility to hurricanes, tornadoes, flash flooding, earthquakes, or forest fires, and even the possibility of unusual hazards such as volcanic eruptions. Consider man-made disasters such as power outages, sprinkler discharges, fuel or water supply failures, chemical spills, arson, bomb threats, or other such problems. Take note of the environmental risks that surround you. Chemical industries, shipping routes for hazardous materials, and adjacent construction projects all expose you to damage. Any event that is a real possibility should be covered under your Emergency Preparedness Plan. It is also important to determine the vulnerability of the objects within the collections. What types of materials are included? Are they easily damaged? Are they particularly susceptible to certain types of damage such as moisture, fire, breakage, and the like? How and where are collections stored? Are they protected by boxes or other enclosures? Is shelving anchored to structural elements of the building? Is it stable? Are any artifacts stored directly on the floor where they could be damaged by leaks or flooding? All items should be raised at least four inches from the floor on waterproof shelves or pallets. Are materials stored under or near water sources? Analyze your security and housekeeping procedures. Do they expose collections to the dangers of theft, vandalism, or insect infestation? Consider vulnerabilities. Are your collections insured? Is there a complete and accurate inventory? Is a duplicate of the inventory located at another site? Although there may be a wide range of disaster scenarios, the most common is water,

fire, physical or chemical damage, or some combination of these. The specific procedures of a disaster plan focus on the prevention and mitigation of these types of damage.

6.7.2 Decreasing Risks:

Once your hazards are specified, the disaster planner should devise a program with concrete goals, identifiable resources, and a schedule of activities for eliminating as many risks as possible. While water damage is the most common form of disaster for collections, everyone needs a good fire-protection system. Wherever possible, collections should also be protected by a firesuppression system. Preservation professionals now recommend wet-pipe sprinklers for most collections. In addition, water misting suppression systems have become available within the last several years; these can provide fire suppression using much less water than conventional sprinkler systems. Before choosing a fire-protection system, be sure to contact preservation professional or a fire-protection consultant for information about the latest developments in fire protection and for advice appropriate to your collections and situation. An inventory will provide a basic list of holdings and will be essential for insurance purposes. Improved collection storage, such as boxing and raising materials above the floor level, will reduce or eliminate damage when emergencies occur. Comprehensive security and housekeeping procedures will ward off emergencies such as theft, vandalism, and insect infestation. They will also ensure that fire exits are kept clear and fire hazards eliminated.

6.7.3 Identifying Resources:

An important step in writing your plan is to identify sources of assistance in a disaster. Research these services thoroughly--it is an essential part of the planning process. These can range from police, fire, and ambulance services to maintenance workers, insurance adjusters, and utility companies. If possible, invite local service providers to visit in order to become familiar with your site plan and collections in advance of an emergency. For example, you may want to provide the fire department with a list of high-priority areas to be protected from water if fire-fighting efforts permit. Other valuable sources of assistance are local, state, or federal government agencies.

6.8 SDRN/IDRN data updation: -

State disaster Resource network and India Disaster Resource Network is a crucial database for aresponse 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 updating.

6.8.1 India Disaster Resource Network (IDRN) : -

IDRN, a web-based information system, is a platform for managing the inventory of equipment, skilled human resources and critical supplies for emergency response. The primary focus is to enable the decision makers to find answers on theavailability of equipment 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 thefunctionality of generating multiple

query options based on the specific equipment, skilled human resources, and critical supplies with their location and contact details.

6.9 Community Warning System, Education, PreparednessDRM Programme: -

6.9.1 GSDMA DRM activities:

Disaster Risk Management Programme (DRM) has taken strong roots at variouslevels of administration in Gujarat. The Department of Revenue and 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 taskof 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 Training and Resource Mobilization, Disaster Awareness through Orientations, Campaigning, Media Management and IEC distribution. Coordinate District Administration for all Disaster Management Activities with expertize 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-government, the District administration and the State inGujarat. Under the DRM Programme

For the Prepared level, specific plan following process will follow.

District Level Process

- 1. The 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 the 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/SDRN

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 tocreate awareness at taluka level
- 6. TDMP update on SDRN

<u>City-ULB level process</u>

- 1. The orientation of City-levelofficers elected members and leaders.
- 2. Formation of CDMP

- 3. Capacity building of municipal official and concerned organizations at the city level
- 4. Development of the CDMP.
- 5. Use of IEC material tocreate awareness at the 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)

Kutch district had taken the preparedness measures from village level to District level. At the villages, village Task forces were formed and trained in First aid and Health, Search and Rescue and Disaster Management. Some volunteers were also trained in Disaster Management and plans like VDMP were prepared and updated. Officers reviewed the disaster preparedness of the villages and interacted with the Village level Disaster Management team members, in the pre-monsoon meeting all departments, and stakeholders were asked to get prepared departmental plan. SOP's were also discussed with them so that quick response can be assured and any kind of risk due to water logging, flood, heavy rainfall and dam overflow can be reduced.

Prevention and Mitigation and preparedness 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.

Base on the interim assessment of risk and vulnerabilities, certain majors for mitigation, preparedness and prevention has been taken with respect to Kutch District.

The proposed state-level disaster-planning format sets out priorities for mitigation, prevention and preparedness activities. The underlying concept is to incorporate these three types of activities into normal (developmental) policies, procedures and undertakings and targeting specific areas for a concerted effort.

Complimentary priorities, plans, and activities need to be established at the district level. This process is complicated by five realities:

- 1. Developmental policies and budgets are set at the state-level and project implementation is not always under the control of district authorities
- 2. District authorities have limited policy and funding independence.
- 3. The range of possible mitigation, prevention and preparedness actions within a district is significant but can be difficult to prioritize.

- 4. Many activities require popular participation and should be a focus on the family or community, which requires time and effort to effectively organize.
- 5. The local commercial sector is cost-conscious and tends to avoid investments in activities which do not immediately improve profits.

A set of possible district-level approaches to mitigation, prevention, and preparedness are summarized below based on these realities. These approaches need to be reviewed at the district and state level and. to the degree possible, harmonized vertically within the government structure and across public and private sector organizations and districts. At the same time, the focus of efforts can vary between and even within districts depending on their particular hazards, risks, and vulnerabilities.

One approach to developing this harmonization is to hold a state-district conference on mitigation, preparedness, and prevention, complemented by annual review workshop. The initial conference would define and harmonize policies, procedures, and approaches vertically and horizontally. The workshop would serve to recognize progress and adjust plans to take into account changing local and state-level conditions.

6.10 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 Kutch 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 healthcare 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 and Country Planning Board and constitute a committee of experts to evaluate the provisions of the State Town and 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 and Technology, Transport, and Agriculture to evaluate and suggest disaster mitigation measures to be incorporated.

6.11 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.

Type of Action	Flood	Cyclone	Chemical and industrial accidents	Tsunami
Existing EWS	Irrigation	IMD	Industrial	IMD
	department /dam authority/ IMD	¥	Association/industries	¥
	¥	Collector	↓ DCC	Collector
	Collector	¥	DCG ↓	\mathbf{A}
	•	Mamlatdar/TD O	LCMG	Mamlatdar
	Mamlatdar/	↓	Lewig ↓	/TDO
	TDO	· ·		¥
	¥	Villages	Mamlatdar ↓	Villages
	Villages		Villages	

Table 36: Early Warning Action Plan

Type of Hazard	Flood	Cyclone	Earthquake	Drought	Industrial accidents	Tsunami
Ta	Table 37: During and Post Disaster Advisory Action Plan					
improve		Maldharis etc)				
Measures required to	Cont	Contact of communities in remote locations (fisher folk, saltpan workers,				
difficult to access						
not covered or		etc)VDMC				
Villages/habitation	Comr	Communities in remote locations (fisher folk, salt pan workers, Maldharis				
Villages covered		All risk prone villages				
						trained)
				and trai	ned)	formed and
available (Y/N)				(Team to b	e formed (Team to be
and operators						
Trained personnel		Yes	Yes	No)	No
	V	DMC	VDMC	VDN	4C	VDMC
	offic	ce/TDO	office/TDO	office/	TDO 0	office/TDO
dissemination		nlatdar	Mamlatdar	Mamla		Mamlatdar
for warning						
Responsible Agency	D	DMC	DDMC	DDM	4C	DDMC

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

6.12 Procurement various Resources: -

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 the 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.

6.13 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 an 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.

6.14 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 creating 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 the ground. A similar set up is also active at the District Emergency Operation Centre (DEOC).

6.15 Documentation:

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

6.16 Responsibility of Each department for Preparedness:

6.16.1 Agriculture:

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/equipment, 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.

6.16.2 Health Department:

Preparedness Activities before Disaster

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 vulnerable and strategic points

Epidemics 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 and creation of local units for carcass disposal
- Municipalities/Gram Panchayats to be given responsibility for removing animals likely to become health hazards.

6.16.3 Water Supplies and Sanitation (GWSSB):

Preparedness Activities for disaster seasons

- Prior arrangement of water tankers and other means of distribution and storage of water.
- Prior arrangement of standby 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 leastdamage during future disasters
- Riser pipes to be given to villagers

Chapter 7: Response Measures (Multi-Hazard):

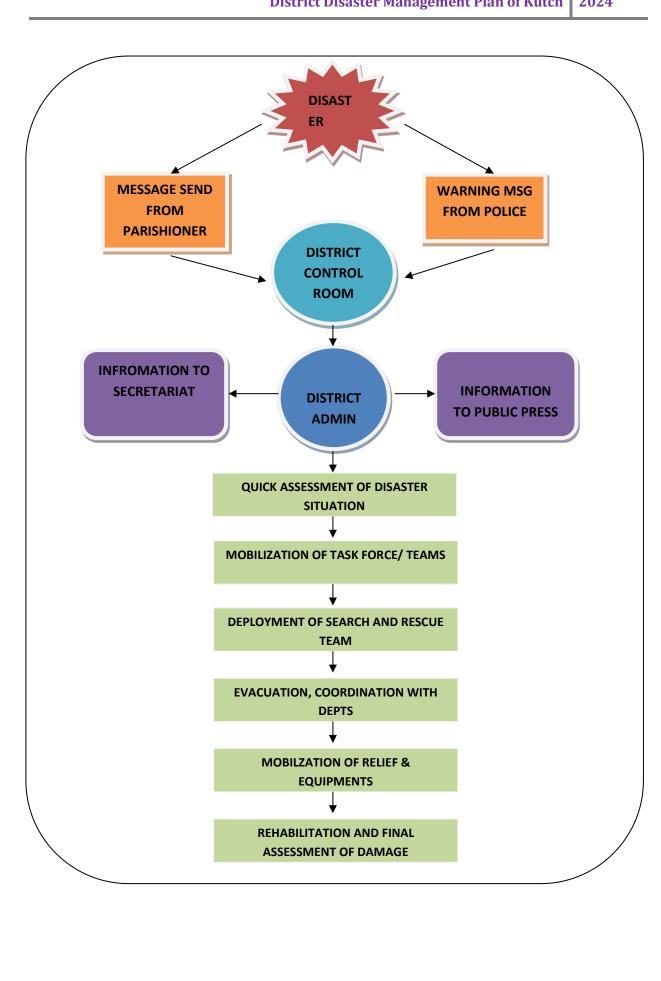
Response measures are those which are taken instantly prior to, and following, a disaster aimed at limiting injuries, loss of life and damage to property and the environment and rescuing those who are affected or likely to be affected by the disaster. Response process begins as soon as it becomes apparent that a disastrous event is imminent and lasts until the disaster is declared to be over. Since the response is conducted during periods of high stress in a highly time-constrained environment and with limited information and recourses (in the majority of the cases), it is by far, the most complex of four functions of disaster management. The 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 an 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.

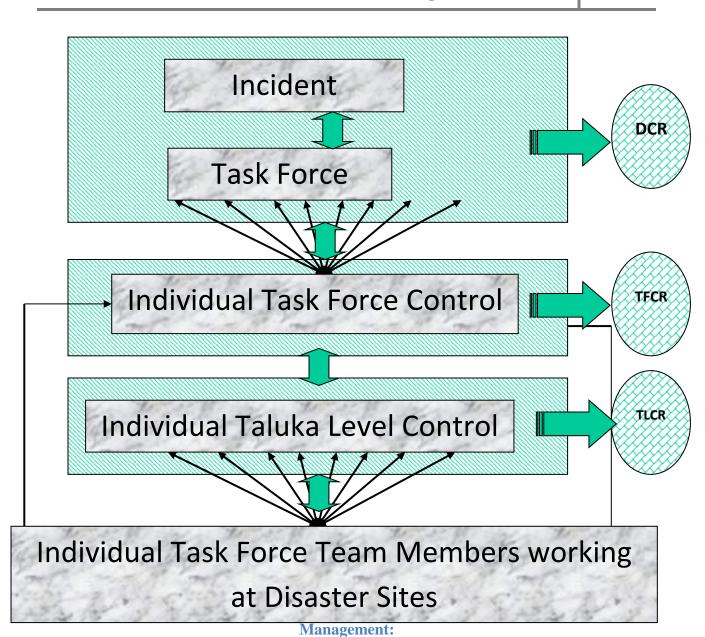
The Revenue Department of the State is the Nodal Department for controlling, monitoring and directing measures for organizing rescue, relief, and rehabilitation. All other concerned line departments should extend full cooperation in all matters pertaining to the response management of the disaster whenever it occurs. All department should adhere the guidelines provide my NDMA to take necessary precaution due to Corona outbreak, while responding to the disaster.

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

District Disaster Management Plan of Kutch 2024 **District Emergency Operation Centre** Ļ ↓ R&D/ Fire NGO/ Irrigatio n Deptt Mamlatda PWD Volunteer Brigade/ Polico **Dist. Nodal Officers** Taluka Mamlatdar/ TDO Gram panchayat Village Taskforce

Figure 6: Search, Rescue and Evacuation Process:





7.1 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;

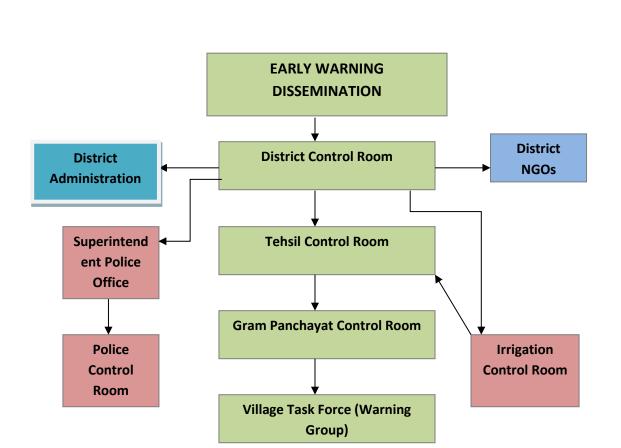


Figure 9: Flow Chart of Response Mechanism after Early Warning

Sr. No.	Disaster	Agencies		
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, Collector		
8	Drought	Agriculture, Scarcity department		
9	Fire	Fire Brigade, Police, Collector		
10	Rail Accident	Railways, Police, Collector		
11	Air Accident	Police, Collector, Airlines		
12	Ammunition Depot-Fire	Army, Police, Collector.		

 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 satellitebased Cyclone Warning Dissemination System (CWDS) is one of the best warning system 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. Location of CWDS in Gujarat State are shown below:

No.	Stations	Address	
1.	Ahmedabad	Director, Met. Center, Ahmedabad (Monitoring Station)	
2.	Gandhinagar	Director of Relief, Sachivalaya, Gandhinagar (State Head	
		Quarter)	
3.	Surat	Collector Office Surat, Dist. Surat	
4.	Bharuch	Collector office Bharuch, Dist. Bharuch	
5.	Bhavnagar	Collector office Bhavnagar, Dist. Bhavnagar	
6.	Mahuva	Mamlatdar office Mahuva, Dist. Bhavnagar	
7.	Veraval	Mamlatdar office Veraval, Dist. Junagadh	
8.	Porbander	Collector office Porbander, Dist. Porbander	
9.	Dwarka	Mamlatdar office, Dwarka, Dist. Jamnagar	
10.	Mandvi	Mamlatdar office, Mandvi Dist. Kutch	
11.	Okha	Police Station, Okha, Dist. Jamnagar	
12.	Jamnagar	Civil Defence office, Jamnagar, Dist. Jamnagar	
13.	Mangrol	Mamlatdar office, Mangrol, Dist. Junagadh	
14.	Diu (Union Territory)	Police Station, Diu.	
15.	Jafrabad	Mamlatdar office, Jafrabad, Dist. Amreli	
16.	Khambhat	Mamlatdar office, Khambhat, Dist. Anand	
17.	Baroda	Collector office Vadodara, Dist. Vadodara	
18.	Valsad	Collector office, Valsad, Dist. Valsad	
19.	Gandhidham	Civil Defence office, Gandhidham, Dist. Kutch	
20.	Daman (Union Territory)	Port Office Daman	
21.	Silvassa (Union Territory)	Mamlatdar office, Silvassa	
22.	Kandla Port	Dist. Kutch	

Location of Cyclone Warning Dissemination System (CWDS) in Gujarat State

2. After getting information from IMD, warning dissemination is a responsibility of State Government/Commissioner of Relief (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.

7.2 District CMG meeting:

At the District level, the District Crisis Management Group (DCMG) 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 and 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 (LCMG) is formed for coordination of activities and executing the operations. DCGs as well as LCMG. The meeting will meet periodically twice in a year.

7.3 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 the case of a Level 1 Disaster the Local Control room will be activated, in the case of a Level 2 disaster, DEOC will be activated along inform with the SEOC.

7.4 Resource Mobilization:

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

7.5 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 the ground. A similar setup is also active at the District Emergency Operation Centre (DEOC).

Media can play a 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;

7.6 Emergency Response Functions:

Responsible person 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 and the provision of water or shelter. The composition and size of these taskforces depend on the nature of the incident. The task force should adhere the guidelines provided by NDMA & GSDMA for evacuation & relief work due to the corona outbreak.

The District administration of Kutch has identified 16 expected task forces for key response operation functions that are described 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 supported by other organizations.

Sr. No.	Emergency	Functions	
	Operation Taskforce		
1	Coordination and	Coordinate early warning, Response and Recovery Operations	
	Planning		
2	Administration and	Support Disaster Operations by efficiently completing the paper	
	Protocol	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	Provide human and material resources needed to support local	
C		evacuation, search and rescue efforts.	
	(including Evacuation)		
6	Public Works	Provide the personnel and resources needed to support local	
-		efforts to re-establish 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	Assure the provision of basic food and other relief needs in the	
	Supplies	affected communities.	
9	Power	Provide the resources to reestablish normal power supplies and	
		systems in affected communities.	
10	Public Health and	Provide personnel and resources to address pressing public health	
	Sanitation	problems and re-establish normal health care systems.	
11	Animal Health and	Provision of health and other care to animals affected by a disaster	
	Welfare		
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	Collect and analyzed data on the impact of the disaster, develop	
	Assessment)	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 sys		
		(e.g; Radio, TV, Telephones, Wireless) required supporting early	
		warning or post disaster operations.	
16	Media (Public	Provide liaison with and assistance to print and electronic media on early	
	Information)	warning and post-disaster reporting concerning the disaster.	

Table 39: Emergency Operation Taskforce Functions

The specific response roles and responsibilities of the taskforces indicated above is that these roles and responsibilities will be executed and coordinated through the ICS/GS system. For example, in flood, search and 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

- a. Designate a Nodal officer for emergency response and will act as the contact person for that department/agency.
- b. Ensure establishment of fail-safe two-way communication with the state, district and other emergency control rooms and within the organization.
- c. Emphasis on communication systems used regularly during LO with more focus on the use of VHFs 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.
- d. Work under the overall supervision of the IC/District Collectors during emergencies.

7.7 Response responsibility of Each Concerned Department:

7.7.1 Agriculture:

Response Activities:

a. Management of control activities following crop damage, pest infestation and crop disease to minimize losses

Collection, laboratory testing, and analysis of viruses to ensure their control and eradication

- b. Pre-positioning of seeds and other agro inputs in strategic points so that stocks are readily available to replace damage caused by natural calamities.
- c. 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.
- d. Establishment of public information centers with appropriate and modern means of communication, to assist farmers in providing information regarding insurance, compensation, repair of agro equipment and restarting of agricultural activities at the earliest.

7.7.2 Health Department:

Response activities:

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

Sanitation:

- a. Dispensing with post-morden activities during Level-1, Level-2 and Level-3 of disaster when the relatives and/or the competent authority are satisfied with cause of death.
- b. Disinfection of water bodies and drinking water sources.
- c. Immunization against infectious diseases.
- d. Ensure continuous flow of information.

Recovery Activities:

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

7.7.3 Epidemics:

Response Activities:

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

7.7.4 Water Supplies and Sanitation (GWSSB):

Response Activities:

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

7.7.5 Police:

Response Plan:

- a. Security arrangements for relief materials in transit and in camps etc.
- b. Senior police officers to be deployed in control rooms at State and district levels during Disaster Level- 3.

- c. Deploy personnel to guard vulnerable embankments and at other risk points.
- d. Arrangement for the safety in potential hazardous area.
- e. Coordinate search, rescue and evacuation operations in coordination with the administration.
- f. Emergency traffic management.
- g. Maintenance of law and order in the affected areas.
- h. Assist administration in taking necessary action against hoarders, black marketers etc.

7.7.6 Civil Defense:

Response Activities:

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

7.7.7 Fire Services:

Response Activities:

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

7.7.8 Civil Supplies:

Response Activities:

- a. Management of procurement of relief materials.
- b. Management of material movement.
- c. Inventory management.

7.7.9 Public Works/Rural Development Departments:

Response Activities:

- a. Clearing of roads and establish connectivity. Restore roads, bridges and where necessary make alternate arrangements to open the roads to traffic at the earliest.
- b. Mobilization of community assistance for clearing blocked roads.
- c. Facilitate movement of heavy vehicles carrying equipment and materials.
- d. Identification and notification of alternative routes to strategic locations.
- e. Filling of ditches, disposal of debris, and cutting of uprooted trees along the road.
- f. The arrangement of the emergency toolkit 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 equipment.

7.7.10 Energy: PGVCL:

Response Activities:

- a. Disconnect electricity after receipt of the warning.
- b. Attend sites of electrical accidents and assist in undertaking damage assessment.

- c. Standby arrangements to ensure temporary electricity supply.
- d. Prior planning and 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.
- e. Inspection and repair of high tension lines/substations/transformers/poles etc.
- f. Ensure the public and other agencies are safe guarded from any hazards, which may have occurred because of damage to electricity distribution systems.
- g. Restore electricity to the affected area as quickly as possible.
- h. Replace/restore of damaged poles/salvaging of conductors and insulators.

7.7.11 Fisheries:

Response Activities:

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

7.7.12 Transport Department:

Recovery Activities:

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

7.7.13 Panchayati Raj Institutions:

Response Activities:

- a. Train ups the Gram Panchayat members and support for timely and appropriate delivery of warning to the community.
- b. Clearance of blocked drains and roads, including tree removal in the villages.
- c. Construct alternative temporary roads to restore communication to the villages.
- d. PRIs to be a part of the damage survey and relief distribution teams to ensure popular participation.
- e. Operation emergency relief centers and emergency shelter.
- f. Sanitation, drinking water and medical aid arrangements.
- g. IEC activities for greater awareness regarding the role of trees and forests for protection during emergencies and also to minimize environmental impact which results in owing to deforestation like climate change, soil erosion, etc.
- h. Increasing involvement of the community, NGOs, and CBOs in plantation, protection and other forest protection, rejuvenation and restoration activities.
- i. Plan for reducing the incidence, and minimize the impact of a forest fire.

7.7.14 Forest Department:

Response Activities:

- a. Assist in road clearance.
- b. Provision of tree cutting equipment.
- c. Units for tree cutting and disposal to be put under the control of GSDMA, ERC and Collector during Level 1 disaster event.
- d. Provision of building materials such as timber, bamboos etc. for construction of shelters.

7.7.15 Information and Public Relations Department:

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 and feedback to field officials on a daily basis from disaster 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 programmers.

7.7.16 Revenue Department:

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

7.7.17 Home Department:

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

7.7.18 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 and rescue equipment, 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.

7.8 Reporting:

7.8.1 Media and Information Management Task force 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 predetermined 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).

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

- a. The nature of needs to be addressed.
- b. The type of assistance to be provided.
- c. The time limit within which assistance is needed.
- d. The district or other contracts for the provision of the assistance.
- e. Other Task Forces with which coordination should take place.
- f. 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 the use of these special powers is required to accomplish warning, relief or recovery objectives give to a task force.

7.8.2 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 restored.

7.9 Humanitarian Relief and Assistance:

Response defines provision for assistance/intervention during and after an 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 released 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 activated at DEOC (toll free no. 1077).

7.10 The 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 people who are 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 an 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 a minimum.

Responsibility Matrix should be evolved for each response measures with period and responsibility matrix for major stakeholders should be given in Annexure

7.11 Taskforce action plans:

7.11.1 Coordination and Planning:

Coordinate early warning, response and recovery operations.

Table 40: Responsibility matrix for response functions

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

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Di	saster	
Start Search, Rescue and Evacuation activities. (CMC)	SAR Task Force operational	Immediately
Begin Collecting Information on the extent of	Assessment teams have	Started in 4 hours
damage and areas affected. (CMC)	communications and transport	
Start plan development and provide instructions on	Information on damage and	Started in 4 hours
where Task Forces should go and what they should do. (CMC, Collector)	areas affected	
Mobilize outside resources (CMC)	Information on damage and	Started in 5 hours
	needs	
Provide Public Information (CMC, Media Task		should be started in 6
Force)		hours
	Hours	1
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		Started at 12 hours
problem areas/activities. (CMC)		
Begin rotation of staff (CMC)		Start at 12 hours
Establish regular liaison with State Control Room.	Working communications systems	Start at 12 hours
Shift the focus of efforts to relief. (CMC)		Open
Restore key infrastructure (CMC through Public		Before 48 hours
Works and other Task Forces)		
48	Hours	
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 the situation. (CMC)		
Focus on creating a sense of normalcy. (CMC)		Before 72 hours
72	Hours	
Start Rehabilitation activities. (CMC)	Plan	
Conduct a 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

7.11.2 Warning:

Collection and Dissemination of Warnings of Potential Disasters

Table 41: Task Force Leader: Resident Additional Collector

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

7.11.3 Law and Order:

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

 Table 42: Task Force Leader: District Superintendent of Police

Action and (Who Should Take It)	Requirements or	Timeframe
	Conditions to be met	Thirthunit
	for the action can	
	occur.	
Before a Disaster		
Evaluate expected disaster needs versus normal		Completed in 8 days.
resources. (Task Force)		completed in 6 days.
Estimate personnel and resources needed for	Based on standard for	Completed in one week
disasters. (Task Force)	number of security	
	personnel per	
	population depending	
	on severity of disaster	
Planning and coordination with Revenue Dept.		
(Task Force)		
Conduct drills, including public awareness	Includes participation	Every 45 days
raising. (Task Force)	of Media Task Force	
Warning		
Verify communications system. (Wireless Inspector)		1-2 hours of warning
Alert police and other Task Force members		1-2 hours of warning
(Superintendent of Police)		
Implement duty distribution SOP for personnel		1-2 hours of warning
and other resources. (Superintendent of Police)		
Develop a preliminary estimate of requirements		1-2 hours of warning
to support other Task Forces. (Superintendent of		

Police)		
Dis	saster	
Get orders on deploying personnel from Control	Operating	Immediately
Room. (Superintendent of Police)	communications system	
Determine status of staff and facilities.	Operating	1-2 hours of disaster
(Superintendent of Police)	communications system	
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.	Operating	4 hours of disaster
(Superintendent of Police)	communications system	
12	Hours	•
Institute regular reporting. (Task Force)	Operating	At start of period
	communications	
	systems	
Begin staff rotation. (Task Force)		At start of period
Address crowd control problems. (Task Force)		As needed
Implement anti-looting/Anti-theft SOP. (Task		As needed
Force)		
Establish rumor control. (Task Force)	Involves Collector,	As needed
	Media Task Force,	
	NGOs, and local	
	eminent persons	
Provide information to the public, e.g., road	Involves Control Room,	As needed.
status. (Task Force)	Media Task Force, and	
	Deputy Magistrate.	
48	Hours	
Implement a Force Management Plan (increase,		From start of period
reduction, redeployment, of forces).		
(Superintendent of Police)		
Plan for return to normal (Superintendent of		From 72 hours after the
Police, Task Force, Control Room)		disaster
Conduct Lessons Learned Session (Task Force		1 week after the
with input from other parties)		disaster
Final Report		2 weeks after the
		disaster

7.11.4 Search and Rescue (including evacuation):

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

Table 43: Task Force Leader: Deputy Commander (Civil Defense)/ Chief Fire Officer

Action and (Who Should Take It)	Requirements or	Timeframe
, , , , , , , , , , , , , , , , , , ,	Conditions to be met for	
	the action can occur.	
Before	a Disaster	
Risk assessment and vulnerability mapping		Before warning
(Task Force)		
Develop an inventory of personnel and material		Before warning
resources. (Task Force)		
Training (Task Force)	Input from GSDMA and	Before warning
	NDMA	
Establish public education program. (Task	Media Task Force	Ongoing
Force)		
Establish adequate communications system.	Additional equipment	
(Task Force)	required.	
Drills. (Task Force).		Before warning
Establish transport arrangements for likely SAR	With Logistics Task Force	Before warning
operations. (Task Force)		
Develop Rescue SOP. (Task Force)		Before warning
Wa	rning	
Mobilize Task Force and SAR teams. (Task		On warning
Force)		
Verify equipment is ready. (Task Force)		On team activation
Confirm transport is ready. (Task Force)	Logistics Task Force.	On warning
Undertake precautionary evacuation. (Task	Logistics and Shelter Task	As directed.
Force)	Forces	
Re-deploy teams and resources, if safe. (Task	Logistics Task Force	Based on conditions
Force)		
Start public awareness patrols. (Task Force)	Media, Law and Order and	As required
	Logistics Task Forces.	
Dis	aster	
Assure the safety of staff.		Immediately
Restore own communications. (Task Force)		Immediately
Dispatch rescue/evacuation teams based on	Input from Control Room.	Immediately
assessments. (Task Force)		
Call for additional resources if needed. (Task	Communications systems	3-4 hours of disaster
Force)	in operation	
Provide reports on operations. (Task Force)		Starting at 3-4 hours
Begin handling of deceased per SOP. (Task	Various Revenue officers	Starting at 3-4 hours
Force)	and Police involved.	
12	Hours	
Begin staff rotation system. (Task Force)		Starter at 12 hours
L		

Begin specialized rescue (may begin earlier).	May require outside	Started at 12 hours
(Task Force)	resources, coordination	
	with Logistics Task Force	
Begin debris removal in cooperation with	Focus on critical	Start at 12 hours
Public Works Task Force.	infrastructure. Liaison	
	with Control Room	
Secure additional resources (e.g., fuel,		Start at 12 hours.
personnel) for continued operations. (Task		
Force).		
48 Hours		
Demolish/Stabilize damaged buildings in	Logistics Task Force,	Starting at 48 hours.
cooperation with Public Works Task Force.	workers, equipment.	
Demobilization, reconditioning, repair and		Based on nature of
replace equipment and other resources. (Task		the disaster.
Force)		
Remain on standby for additional operations,		As needed.
particularly related to the safety of recovery		
work. (Task Force).		
72 Hours		
Lessons Learned meeting. (Task Force and		After 2 weeks.
others)		
Final Report. (Task Force)		After major
		activities completed.

7.11.5 Public Works:

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

Action and (Who Should Take It)	Requirements or	Timeframe
	Conditions to be met for	
	the action can occur.	
Before	a disaster	
Inventory of personnel, equipment, and status of	Link to UNDP project data	One week before the
infrastructure. (Taskforce)	based development.	warning.
Identify critical infrastructure. (Task Force)	Need to define about, what	Before warning.
	is critical infrastructure.	
Identify alternate transport routes and publish the		Before warning.
map. (Task Force)		

Table 44: Task Force Leader: Executive Engineer, Roads and Buildings

Dian for prioritized post disaster increation of		
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)		
	rning	
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-	Coordination with Logistics	24 hours from
deploy if appropriate and safe. (Task Force)	Task Force and Control	warning
	Room.	
Review plans. (Task Force)		No later than 6 hours
-		from warning
		C C
Dis	saster	I
Begin damage assessment and inspections. (Task	Coordination with Damage	Within 12 hours of
Force)	Assessment Task Force.	disaster
Develop operations plan and communicate to		Within 12 hours of
Control Room.		disaster
Mobilize and dispatch teams based on priorities.	Coordination with	Within 12 hours of
Teams will (1) repair, (2) replace, (3) Build	Logistics, Water, Power	disaster
temporary structures, (e.g., rest facilities, shelters).	Task Forces and Control	
1	Room.	
Collaborate with other Task Forces.		Continuous
	Hours	
Begin staff rotation system and manpower		Starter at 12 hours
planning. (Task Force)		
Mobilize additional resources based on expected	Coordination with Logistics	Started at 12 hours
duration of operations. (Task Force)	Task Force, Contractors.	
	May need additional	
	funding.	
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	Coordination with Control	Start at 12 hours.
infrastructure. (Media Task Force)	Room	
48]	Hours	
Start detailed survey. (Task Force)	In cooperation with	Starting at 48 hours.
	Damage Assessment Task	
	Force	

Begin reporting on operations (Task Force)	Starting at 3 days
Reconditioning, repair and replace equipment and	Based on nature of
other resources. (Task Force)	disaster
Plan and start demobilization. (Task Force)	Starting at 3 days
72 1	Hours
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

7.11.6 Water Supply:

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

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

Table 45: Task Force Leader: Executive Engineer, Gujarat Water Supply Board

	locally. Recourse to	
	outside or contractor	
	sources may be required.	
Coordinate activities with Power and other Task	Involves District Control	24 hours from the
Forces.	Room.	warning.
	Koom.	No later than 24
Verify water source status and protection. (Task Force).		hours from the
roice).		
DI		warning.
	aster	
Plan and prioritize supply of water to users. (Task	Requires information on	Completed by 24
Force)	needs, damage, and demand.	hours into disaster.
Assess status and damage to water systems. (Task	Coordination with	Completed by 24
Force)	Damage Assessment Task	hours into disaster.
	Force.	
Mobilize water tankers. (Task Force)	Coordination with Logistics	Started by 24 hours
	Task Force and Control	into disaster.
	Room.	
Repair/restore water systems, based on the plan.	Coordination with Power	Started by 24 hours
(Task Force)	and Logistics Task	into disaster.
	Forces.	
Assure supply point/distribution security. (Law		Started as soon as
and Order Task Force)		distributions begin.
Coordinate distribution of water and storage and	Coordination with Media	Started by 24 hours
provision of information on safe water use. (Task	Task Force and Control	into disaster.
Force).	Room	
	lours	
Establish temporary water systems. (Task Force)		Up to 72 hours from
		disaster.
Move toward permanent water supply system.		After 72 hours.
(Task Force)		inter / 2 nourb.
Complete long-term recovery plan and needs.		After 72 hours.
(Task Force)		1 HOI / 2 HOUIS.
Begin reporting and documentation. (Task Force)		From 48 hours.
begin reporting and documentation. (Task FORCE)		1 10III 40 HOUIS.
Begin demobilization. (Task Force)	Coordinated with Control	From 48 hours.
	Room.	
Lessons Learned meeting. (Task Force and others)		After 2 weeks.
Final Report. (Task Force)		After major activities
		•
		completed

7.11.7 Food and Relief Supplies:

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

Table 46: Task Force Leader: District Supply Officer

Action and (Who Should Take It)	Requirements or	Timeframe
	Conditions to be met for	
	the action can occur.	

Before a	disaster	
Establish procedures and standards. (Task Force)	Need standards.	On-going.
Maintain two months stock of essential supplies.		Done
(Task Force)		
Develop transportation plan. (Task Force)	In cooperation with	Completed in 8 days
	Logistics Task Force.	
Develop a list of NGOs. (Task Force)		Done
Plan staffing for disaster. (Task Force)		Done
Identify locations, which can be isolated and		On-going.
increase stock as needed. (Task Force)		
Identify food preparation locations. (Task Force)		Done
War	ning	
Pass on warning. (Task Force)		Within 12 hours of
		receipt of the warning.
Alert NGOs to prepare food. (Task Force)	Contact with NGOs.	Within 12 hours of
		receipt of the
		warning.
Verify stock levels and make distribution plan.	Possible cooperation with	Within 48 hours of
(Task Force)	Logistics Task Force.	receipt of the warning.
Alert transport contractors to prepare for transport.	Coordinate with Logistics	Within 5 hours of
(Task Force)	Task Force.	receipt of the
		warning.
Mobilize staff. (Task Force)		Within 6 hours of
		receipt of the
		warning.
Disa	ster	
Receive and respond to instructions from Control		As received.
Room. (Task Force)		
Monitor conditions of stocks and facilities. (Task	Need for communications.	
Force)		
Develop distribution plan. (Task Force)	Need information on	As requested by
	needs and locations.	Control Room.
Order food packets and provide supplies as needed.	Coordination with	Per distribution plan.
(Task Force)	Logistics Task Force.	
Establish relief supplies receptions centers. (Task	Coordinate with Control	As required.
Force)	Room and Logistics Task	
	Force.	
12 H		
Start distribution operations. (Task Force)	In coordination with	At beginning of
	Logistics and Shelter Task	period.
	Forces.	
Formalize reporting, communications, and		Completed by 48
monitoring. (Task Force)		hours.
Start staff rotation system. (Task Force)		At beginning of
		period.
Begin mobilizing and managing additional supplies.	Coordination with Logistic	underway in 48

	and, Control Room.	hours.
Establish security for all sites. (Law and Order Task		At beginning of
Force)		period.
Begin public announcement of distribution plan and		Underway in 48
standards. (Media Task Force)		hours.
48 Hours		
Shift to normal operations. (Task Force)		Within 1 week.
Reconcile receipts and distribution records. (Task		Within 30 days.
Force)		
Continue providing relief to special		For 15 days from
areas/populations. (Task Force)		the disaster
72 Hours		
Restore Public Distribution System. (Task Force)		From 1 week after
		the disaster.
Lessons Learned meeting.		Within 14 days

7.11.8 Power:

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

Table 47: Task Force Leader: Superintending Engineer, Gujarat Electricity Board

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Before a disaster a	nd warning phases	
Develop an 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 an informal hazard and risk assessment.		Completed.
(GEB)		
Develop disaster plan. (GEB)		
Disa	ster	·
Assess impact according to SOP. (GEB)	Coordinate with Control	
	Room and Damage	
	Assessment Task Force.	
Prioritize response actions. (GEB)	Need to establish priorities.	
Collect more information. (GEB)		
Mobilize additional resources. (GEB)	Coordination with Control	
	Room and other Task	
	Forces.	
Check for unforeseen contingencies.		
12 H	ours	1
Revise plans based on feedback and assessments.		Continuous

(GEB)				
		Continuous		
Monitor status of actions. (GEB)				
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	Coordinate with Control			
Force)	Room.			
Establish constant communications on needs,				
requirements and resources with Control Room and				
GEB/HQ.				
48 Hot	urs			
Look for improvements in efforts. (GEB)				
Reinforce central coordination. (GEB)				
Conduct regular coordination meetings with other				
actors. (GEB)				
Begin formal documentation of efforts. (GEB)				
72 Hours				
Review shift plan for safety. (GEB)				
Plan for situation turn to normal, including additional	Involvement of Law and			
security if needed. (GEB)	Order Task Force.			

7.11.9 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

Action and (Who Should Take It)	Requirements or	Timeframe	
	Conditions to be met for the		
	action can occur.		
Before a	disaster		
Develop an inventory of personnel, resources, and		1 week.	
facilities. (Task Force)			
Training. (Task Force)	Coordination with GSDMA	6 months.	
Establish Control Room.		Completed.	
Prepare for specific diseases by season (e.g.,		Completed.	
monsoon)			
Establish Epidemiological Reporting System		Completed.	
(ERS). (Task Force)			
Identify disease vulnerable areas. (CDHO)		Completed.	
Improve public awareness. (Media Task Force)			
Warning			
Send out a warning to health facilities. (Task		As received.	

Table 48: Task Force Leader: Chief District Health Officer

Force)		
Mobilize health teams to possible disaster areas.	In coordination with Control	As needed.
(Task Force)	Room.	
Activate Task Force for the whole district. (CDHO)		On warning.
Disa	ster	
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.		Within 1 hour of
(Task Force)		disaster.
Implement SOP for management of deceased.	Involves cooperation with	Within 1 hour of
(Task Force)	Law and Order and SAR	disaster.
	Task Force.	
Coordinate efforts with Control Room and other		Within 2-3 hours
Task Forces.		of disaster.
12	Hours	
Begin to call in outside resources. (Task Force)	Involves Telecommunication	s Within 3 hours.
	and Logistics Task Forces	
	and Control Room.	

Establish temporary medical facilities where needed.	Coordination with	Within 24 hours.
(Task Force)	Public Works, Power,	
	Water, and Law and	
	Order Task Forces.	
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	In coordination with	2-3 hours.
Force)	Control Room.	
48 Hou	irs	
Establish formal health care system reporting. (Task		At beginning of period.
Force)		
Start solid waste and vector control management SOP.		At beginning of period.
(Task Force)		
Start waste water management SOP. (Task Force)		At beginning of period.
Focus health status surveillance on children 0 to 5		Implements in one week.
years.		
Establish public awareness and IEC efforts. (Task		At beginning of period.
Force and Media Task Force)		
72 Hou	rs	
Develop demobilization plan.		By the beginning of
		period.
Lessons Learned meeting.		Within 14 days of
		disaster.
Final Report		Within 14 days of
		disaster.

7.11.10 Animal Health and Welfare:

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

Table 49: Task Force Leader: Deputy Director, Veterinary and Animal Husbandry

Action and (Who Should Take It) Requirements or		Timeframe	
	Conditions to be met for		
	the action can occur.		
Before a	disaster		
Update animal list. List of staff and training for		Done.	
disposal of the carcass.(Task Force)			
Stock medical supplies and vaccines. (Task Force)		Done	
Warı	ning		
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.	
Disas	ster		
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		As needed.
Force)		
Assist local authorities in a survey of damage and		As required.
reconciliation of records.		
48 Hours an	d beyond	
Assist local authorities in providing fodder as needed.		As required.
Collect feedback. (Task Force)		
Final Report. (Task Force)		In 15 days.

7.11.11 Shelter:

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

Table 50: Task Force Leader: District Primary Education Officer			
Action and (Who Should Take It)	Requirements or	Timeframe	
	Conditions to be met for		
	the action can occur.		
Before a d	lisaster		
Develop shelter operating procedures. (Task Force)			
Develop an inventory of shelters (location and	SDRN updating, project	On going	
capacity). (Task Force)	inventory.		
Provide information to other Task Forces on the	Logistics, Water, Power,		
location of shelters. (Task Force)	SAR, Food/Relief Supplies		
	Task Forces and Control		
	Room		
Training for shelter managers. (Task Force)	Need training module.		
Warn	ing		
Mobilize shelter managers. (Task Force)		Within 6 hours of	
		warning.	
Review shelter locations for operating status. (Task	Communications needed.	Within 6 hours of	
Force)		warning.	
Open shelters as instructed.	Coordination with Control	Within 6 hours of	
	Room.	warning.	
Mobilize additional resources for shelters and camps.	Cooperation with Logistics,	Within 6 hours of	
(Task Force)	Food and Relief Supplies,	warning.	
	Water and Power Task		
	Forces.		
Provide public announcements on locations and		Within 6 hours of	
status of shelters. (Media Task Force)		warning.	
Disas	ter	•	
Beginning logging-in of occupants. (Shelter		Immediately.	
managers).			
Report on status of shelters. (Task Force)	To Control Room.	As needed.	
Plan for prioritization of shelter use. (Task Force)	Coordination with	Immediately.	
	evacuation operations and		

	Control Room.	
Coordinate with other Task Forces on water, power,		Immediately.
food, health, security. (Task Forces)		
Provide support and assistance to occupants. (Task	Liaise with Animal Task	
Force)	Force on the management	
	of animal and with Health	
	Task Force on health care.	
12 Ho	urs	
Continue operations. (Task Force)		Continuously
Monitor shelter status and movement of people.		Continuously
(Task Force)		
Mobilize additional resources. (Task Force)	Coordinate with Control	Continuously
	Room and Logistics Task	
	Force.	
48 Hours an	d beyond	
Begin Demobilization as appropriate. (Task Force)		
Begin reconditioning/repairs to shelters. (Task Force)	In cooperation with Public	As needed.
	Works Task Force.	
Lessons Learned session. (Task Force)	Involvement of other Task	14 days after
	Forces and evacuees.	completion of
		operations.
Final Report. (Task Force)		1 month after
		completion of
		activities.

7.11.12 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.

Table 51: Task Force Leader: Di	strict Development Officer

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can		Timeframe
		occur.	
Before a	disas	ster	
Conduct resource inventory (air/land/water transport and			1 month.
storage; inside and outside the district.). (Task Force)			
Establish deployment requirements, procedures and alternat	e		1 month.
options. (Task Force)			
Conduct drills. (Task Force)			1 month.
Coordinate with other Task Forces.		Work through Control	As needed.
		Room.	
War	ning		
Alert and mobilize Task Force members. (Task			Within 1 hour of
Force)			receiving a
			warning.
Mobilize transport and other resources for action on short	Coo	ordination with Control	Within 2-3 hours
notice depending on disaster expected. (Task Force)	Roo	om	of warning.
Liaise with Control Room and SAR, Shelter and	1		Within 1 hour of

Food/Relief Supplies Task Forces.		receiving a
		warning. Within 6 hours of
Review plan and determine if outside resources are	e	
needed. (Task Force)		receiving a
		warning.
Plan for logistics based depending on nature of the	Coordinate with Control	As needed.
disaster. (Task Force)	Room and Food and Relief	
	Supplies Task Force.	
Dis	aster	
Take action based on an instruction from Control		Within 2 hours of
Room. (Task Force)		receiving a warning.
Continually review requirements and resources.		Continuous.
(Task Force)		
Develop operations plan. (Task Force)	Coordinate with Control	Within 2 hours of
	Room and Food and Relief	receiving a warning.
	Supplies Task Force.	
Strengthen liaison with Control Room and key Task		Within 2 hours of
Forces. (Task Force)		receiving a warning.
Verify quality of service. (Task Force)	Requires set a standard of	Daily.
	service and information on	
	operations.	
12	Hours	
Respond to increased demand for logistics. (Task		Continuous.
Force)		Continuous.
Begin rotation of staff. (Task Force)		At the start of the
begin rotation of starr. (Task Force)		period.
Establish logistics bases as needed. (Task Force)	Coordinate with Control	Continuous.
Establish logistics bases as needed. (Task Force)	Room and Food and Relief	Commuous.
	Supplies Task Force.	
Review plans and communicate with other Task		Continuous.
Forces. (Task Force)		

Begin regular reporting and documentation. (Task		At the start of the	
Force)		period.	
48 Ho	ours		
Reassess needs and requirements. (Task Force)		Continuous.	
Begin demobilization as appropriate. (Task Force)			
72 Hours			
Lessons Learned meeting.	Include Shelter, Food and	Within 14 days of	
	Relief Supplies in	the disaster.	
	themeeting.		
Final Report		Within 14 days of	
		the disaster.	

7.11.13 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.

Table 52: Task Force Leader: I	Resident Adultional C	onector
Action and (Who Should Take It)	Requirements or	Timeframe
	Conditions to be	
	met for the action	
	can occur.	
Before a c	lisaster	
Establish assessment procedures and forms. (Task	Collaboration with	
Force)	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	
Warn	ing	
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	Based on expected	Within 6 hours of warning.
Force)	nature of the disaster.	
Active village-level assessment teams. (Task Force)		Within 6 hours of warning.
Disas	ter	
Consider the 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.		Once initial plan is
(Task Force)		developed.

Table 52: Task Force Leader: Resident Additional Collector

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12 Hours					
Publicly disseminate assessment plans and reports.		As available.			
(Media Task Force)					
Initiate continual updating of assessment information.	Coordinate with				
(Task Force)	Coordination and				
	Planning Task Force.				
Initiate continual updating of assessment plans. (Task	Coordinate with				
Force)	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.			
48 Hot	urs				
Prepare detailed damage, losses, needs assessment	Coordinate with other	3-5 days after the			
and long term recovery plans. (Task Force)	Task Forces.	disaster.			
Coordination of requirements, plans and activities.	Working through	Continuous.			
	Control Room and				
	Coordination and				
	Planning Task Force.				
72 Hot	urs				
Lessons Learned meeting.	Include Shelter, Food	Within 14 days of the			
	and Relief Supplies	disaster.			
	in the meeting.				

7.11.14 Telecommunications:

Coordinate and assure operation of all communications systems

(e.g., radio, TV, phones, wireless) required to support early warning or post-disaster operations.

Table 53: Task Force Leader: Resident Additional Collector

Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Before a d	lisaster	
Develop telecommunications inventory and SOPs.	Telecommunications	
(Task Force)	training.	
Coordinate with other Task Forces. (Task Force)		
Identify sites of vulnerable system components (e.g.,		
switches). (Task Force)		

Ensure redundancy in communications systems.	May require close liaison	
(Task Force)	with private sector	
	providers.	
Training in communication skills and methods. (Task	*	
Force)		
War	ning	
Verify communication systems are working. (Task		Within 24 hours of
Force)		warning.
Mobilize Task Force.		Within 24 hours of
		warning.
Repair down systems and establish alternate	Coordinate with Control	Within 24 hours of
communications systems. (Task Force)	Room.	warning.
Mobilize resources. (Task Force)		Within 24 hours of
woonize resources. (Task Torce)		warning.
Facilitate telecom demands of other Task Force		warning.
members. (Task Force)		
Disa	ston	
		In 2-3 hours.
Check the status of communications systems. (Task Force)		III 2-5 HOUIS.
Identify damage to systems. (Task Force)		First information
identify damage to systems. (Task Porce)		available in 2-3
		hours.
Contact Control Room and other Task Forces on		In 2-3 hours.
		III 2-5 hours.
telecom needs. (Task Force)		L. 2 h and
Start repairs. (Task Force)		In 2 hours.
12 H	ours	-
Mobilize outside resources (may start earlier). (Task		Continuous.
Force)		
Complete plans for repairs and re-establishment of	Coordinate with Control	Continuous.
systems. (Task Force)	Room.	
Liaise with Control Room and other Task Forces.		
Start shift system for staff. (Task Force)		At beginning of
		period.
48 Hours a	nd beyond	-
Continue to assist other Task Forces. (Task Force)		
Continue repair work. (Task Force)		
Begin demobilization. (Task Force)		
Lessons Learned meeting.	Include Shelter, Food and	Within 14 days of
-	Relief Supplies	the disaster.
Final Report. (Task Force)	Involve other Task Forces.	Within one month
		of the end of
		1

Chapter-8: Recovery Measures

Recovery is defined as decisions and actions were 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 the cycle of disaster management. In addition, this is the phase of thenew cycle, where the opportunity for 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 afuture 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 for 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. An alternate arrangement of water supply, temporary sanitation facilities can be sought with help of special agencies.

Special arrangements for theprovision 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.

8.1 Damage Loss Assessment:

Restoration of Essential Services and Infrastructure

A) Short-Term and Instant Recovery Measures:

Depending upon the amount of damage to the area, Immediate Recovery phase remains from a day to two months. The time-bound action plan must be created for the damage assessment by District administration along with relevant departments.

Activity/Action	Estimate of Duration	Estimate of Duration	
Period	Short-Term	Long-Term	
Warning	Hours to a few days		
Response/Operations	Ongoing Ongoing		
Emergency	1-15 days 1-60 days		
Preparation of damage assessment	1-4 days	4-8 days	

SHORT TERM AND LONG TERM RECOVERY TIMETABLE Table 54: Recovery and Reconstruction

Disaster declaration (state or federal)	1-10 days	0-30 days
Federal/State mitigation Strategy	1-15 days	15-30 days
Recovery	7-150 days	150-365 days
Temporary building moratorium	<=30 days	<=60 days
Letter of intent to submit HM Grant	<=60 days	<=60 days
Short-term reconstruction	<= 1 year	200-365 days
State mitigation	<= 180 days	365 days
HMGP proposal	70-200 days	200-365 days

8.2 Restoration of Basic infrastructure:

8.2.1 Roads and Bridges:

Building or Restoration of criticallydamaged roads and bridges needed to be considered. It should be in need to provide connectivity with instant effect. These roads can be Village roads or National highway to connect with main Arterial roads and Hospital or health centers. The building of bridges can be very important of accessing or connecting blocks/panchayats/villages.

8.2.2 Drinking Water Supply:

New hand pumps, tube wells should be reinstated for drinking water supply or setting up of water supply pipelines in the regions with no access to potable water.

8.2.3 Electricity:

Power Supply has the important function during recovery operation so it should be fixed quickly for immediate recovery. Electricity failure can create chaos in the response period during adisaster because theimpact of adisaster can be increased due to approlonged power cut.

8.2.4 Communication Network:

During disaster impact, communication system gets affected. Terrestrial networks of mobile services providers should fix the error at their earliest possible time. This step can help search and rescue operation easier, as well as lead to a synchronised response.

8.2.5 Reconstruction and Repair of Lifeline Buildings:

Lifeline buildings have the important role during adisaster in theresponse phase. These important buildings should keep working for the functioning of theadministrative mechanism during acritical time. The following buildings should be repaired at first.

- A. Collector building
- B. District Emergency Operation Centre
- C. Line Department Buildings
- D. Court Building
- E. Block and Circle Offices.

8.2.6 Rehabilitation:

The Disaster may cause havoc to life and property. During this type of immense disaster, Thelarge population may have to transport or rehabilitated to other location on atemporary basis. If some area is affected by river course change, there may be need of permanent relocation. Affected people will have to be provided relief material and food supplies and shelter.

<u>Mass Care and Sheltering and Housing</u>: Sheltering and housing are very important from response phase to recovery phase and done through Incident Response System. These response operations are supervised by Incident Response system and the liability of the Relief Camp Manager is to manage the shelter. During this period, identification of victims for whom shelter and houses have to be constructed under IAY and RAY shall be sanctioned.

Foods Security: Monitor the food supply to the relief camps and Food for Work Programmer.

<u>Debris Removal and Disposal of Dead Bodies</u>: For the effective response and recovery procedure, debris or trees must be first removed from main transportation means. Many bodies can be found within debris and hence health department must work with debris removal agencies in tandem.

<u>Psychosocial Support</u>: Psychosocial care must be important to victims who have lost their family member, who have suffered physical damage or their house gets affected due to disaster.

<u>Health Care</u>: Emergency health care support must be delivered to the affected areas at the earliest possible time. During disaster many health carecenters get affected and damaged, in this situation, temporary medical relief camps must be established while the building is retrofitted or reconstructed. Reconstruction of buildings has to begin in this phase.

<u>Livelihoods Recovery</u>: There are total three types of intersecting phases for livelihoods interventions: Livelihood Provisioning, Livelihoods Conservancyand Livelihoods Promotion. The first two phases shall be in a part of Quick and Short Term recovery.

<u>Livelihoods Provisioning</u>: Food and Non-food items are very necessary for survival in the form of relief must be provided.

<u>Mitigation Measures</u>: Mitigation activities are very important to reduce the impact of thehazard. For that, vulnerability and risk assessment have to be done in the disaster-prone areas to mitigate any future damage. Retrofitting or reconstruction of damaged houses or other buildings and repairing of embankments work should be done as a part of mitigation measures.

b) Medium-Long-term Recovery

Post-disaster mitigation phases consist of a long-term and complex process, which includes several dimensions for example Rehabilitation of the environment, reconstruction of infrastructure, livelihood regeneration, psychological care etc. This process requires strong bonding between different NGOs, Government organization as well as international organizations and communities in the district.

Disaster recovery typically occurs in phases, with initial efforts dedicated to helping those affected meet immediate needs for housing, foodand water. As homes and businesses are repairs, 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 a 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 collaborationfocuses 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 coordinated 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) 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 embedded 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 efforts are driven by State/local priorities, focusing on permanent restoration of infrastructure, housing, and the local economy. When activated, ESF 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;
- Advice 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 the 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.

8.2.7 Grievances Redressed System:

Grievance redressed is an 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.

No.	Key Person/ Establishment	Contact No	Address
1	DEOC/ RAC	02832-250650	Collector Office, Kutch-Bhuj
2	DDO	02832-250080	District Panchayat, Kutch-Bhuj
3	Police	02832-250444	SP Office, West Kutch, Bhuj
5	Police	02836-280233	SP Office, East Kutch, Gandhidham

Grievance Redressed System

8.2.8 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 of normal life.

8.3 Recovery measures by the concerned department:

8.3.1 Agriculture

Recovery Activities:

- **a.** Arrange for early payment of compensation and crop insurance dues.
- b. Facilitate provision of seeds and other agro-inputs.
- c. Promotion of drought and flood tolerant seed varieties
- d. 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.
- e. Facilitate sanctioning of soft loans for farm implements.
- f. Establishment of a larger network of soil and water testing laboratories
- g. Establishment of pests and disease monitoring system
- h. Training in alternative cropping techniques, mixed cropping, and other agricultural practices which will minimize crop losses during future disasters

8.3.2 Health Department:

Recovery Activities:

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

8.3.3 Epidemics:

Recovery Activities:

a. Assess losses of animal's assets and needs of persons and communities.

- b. Play a facilitating role for early approval of soft loans for buying animals and ensuringinsurance coverage and disaster-proof housing or alternative shelters/ mounds for animals for future emergencies.
- c. Establishment of an animal disease surveillance system

8.3.4 Water Supplies and Sanitation (GWSSB):

Recovery Activities:

- a. Strengthening of infrastructure.
- b. Sharing of experiences and lessons learned.
- c. Training to staff, Review, and documentation.
- d. Development of checklists and contingency plans.
- e. Strengthening of infrastructure and human resources.
- f. Review and documentation.
- g. Sharing of experiences and lessons learned.
- h. Training of staff.
- i. Development of checklists and contingency plans.

8.3.5 Civil Supplies:

Recovery Activities:

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

8.3.6 Public Works/ Rural Development Departments:

Recovery Activities:

- a. Strengthening and restoration of infrastructure with an objective to eliminate the factor(s) which caused the damage.
- b. Sharing of experiences and lessons learned.
- c. Training to staff, Review, and documentation.
- d. Development of checklists and contingency plans.

8.3.7 Fisheries

Recovery Activities:

Provide compensations and advice to affected individuals, community.

8.3.8 Transport Department:

Recovery Activities:

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

8.3.9 Panchayati Raj Institutions:

Recovery Activities

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

Chapter-9: 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.

9.1 State Disaster Response Fund:

To carry out Emergency Response and 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.

9.2 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.

9.3 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 the departmentel arrangement.

9.4 Partnerships:

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

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

Table 55: Centrally Sponsored Scheme

Chapter- 10: Dam Safety and Precautions

10.1 Rivers of Kutch Region:

The flood forecasting and flood warning system for the rivers and dams of Kutch district is being looked after by the Superintending Engineer, Kutch Irrigation Circle, Bhuj through his Executive Engineer (1) Kutch Irrigation Division, Bhuj and (2) Kutch Irrigation Construction Division, Bhuj. The gauge, discharge and rainfall data are being communicated through wireless stations located at various stations on the main rivers as well as tributaries except Water Supply Scheme.

The flood forecasting and flood warning arrangements for Tapper water supply project under Gujarat Water Supply and Sewerage Board will be looked after by Superintending Engineer of the concerned projects. They shall directly collect weather bulletin, H.R.W. from India Meteorological Department, Ahmedabad or Revenue Control Room (E.R.C.) of the concerned districts and shall formulate the flood forecast and convey to the concerned Collector regarding the area likely to be affected for alerting and evacuation of the people as warranted by flood. Simultaneously, they shall convey the flood, forecast and action taken by them to the Flood Control Cell (Irrigation) nearest to them.

Kutch Region lies in the North West of Gujarat. It is scantily rainfall area with dry atmosphere and shallow flashy rivers. Overall there are 20 Irrigation Schemes (Including Tappar Water Supply Scheme). The time lag for flood to reach the desert or sea from the catchment is very short. The flood waters are likely to reach earlier than the period required for evacuation.

The collector shall directly receive the weather and heavy rainfall messages from I.M.D. Ahmedabad/ Revenue Department (Emergency Relief Cell), Gandhinagar. Necessary instruction will be issued by the Collector to warn/alert the people through the local officer i.e. Taluka Mamalatdar or Taluka Development Officer of the areas likely to be affected.

10.1.1 Appropriate Authority (Nodal Officer):

- a. <u>For Kutch District:</u> Superintending Engineer Kutch Irrigation Circle, Sinchai Sadan, Bhuj (Kutch)
- Appropriate Authority (Nodal Officer) for Water Supply Scheme: Superintending Engineer Public Health Circle, Bhuj.

10.2 Most common Observed Problem for Dam Failure:

- a. Under-designed spillways.
- b. Deficiencies in hoisting system and gates.
- c. Deformity & erosion of up and down slopes, erosion of settlement and abutments & cracks along dam crests.
- d. Pitting and cracks in spillways and outlet gate structures, erosion of energy dissipation systems.
- e. Malfunctioning of dam monitoring instruments.
- f. Excessive seepage through masonry or concrete dams.

10.3 Flood Control Cell:

As a part of Flood Warning Arrangement a Flood Control Cell under the control of Superintending Engineer, Sujlam Suflam Circle No. 1, State Water Data Centre, Sector-8, Gandhinagar, is to be set up from 1st June to 31st October or up to one week after withdrawal of monsoon by I.M.D. or as directed by Govt. of Gujarat. Accordingly the Flood Control Cell shall be setup at 1st Floor, State Water Data Centre Building, Sector-8, CH-2 Road, and Gandhinagar. Telephone no. /Fax No. for any detail related to the flood in Gujarat State is 079-23240553. This is the coordinating unit betwen the Focal officers of various river basins and the Government. The Flood Control Cell works round the clock during the monsoon period. The Flood Control Cell collects gauge levels of inters State Rivers viz.

10.4 Favourable Weather Parameters for formation of Cyclone:

- 1. Large sea area with sea surface temperature 27°C or more.
- 2. Minimum vertical wind shear.
- 3. Minimum value of coriolis parameter. (Generally originates between 5° to 22° North Latitude)
- 4. Upper air divergence.
- 5. Sufficient moisture in the lower and middle troposphere.

10.5 Terminologies for Tropical Cyclone:

The classification adopted by India Meteorological Department to classify such disturbances is based on maximum strength of sustained wind in the circulation.

Type of Disturbance	Associated wind speed	
Low Pressure area	Less than 17 kts.	
Depression	17-27 kts.	
Deep Depression	28-33 kts.	
Cyclonic Storm	34-47 kts.	
Severe Cyclonic Storm	48-63 kts.	
Very Severe Cyclonic Storm	64-119 kts.	
Super Cyclonic Storm	120 kts. and above	
$(1 V_{rest}, 1.05 I_{resc})$		

(1 Knot= 1.85 kmph.)

Expected Wind Speed	Expected Damage
60-90 kmph	Tree branches broken off; Some damage to
_	Kutcha house
90-120 kmph	Trees uprooted; Pucca houses damaged;
_	Communication distrupted
More than 120 kmph	Big trees uprooted; Widespread damage to houses
	and Total distruption of installation of
	communication

Tropical cyclones generally form over the open areas where the sea surface temperature is 27°C or more. Very cold temperatures of South Atlantic, Eastern parts of South Pacific and Eastern parts of North Pacific even during the warmest season are not congenial for formation of cyclones while in the warm Indian ocean cyclones are frequent. A Tropical cyclone generally forms from a pre-existing low pressure area over warm Tropical oceans and air from all directions rushes the area in an anticlockwise motion in Northern hemisphere due to deflection caused by rotation of earth. Greater pressure fall, greater the speed of wind rushing inward to the vacumme- Low Pressure.

Simultaneously, in view of favorable conditions in the upper atmosphere at 6 km and above for the out flow or divergence of air, a large scale vertical motion of uprushing air takes place, as the moisture laden warm air rises, it cools and excess moisture, which it can not sustain at these warm temperatures, falls as rain. The latent heat liberated in this process supplies further energy to this low pressure system of intensification.

10.6 Flood Warning Announcement Through All India Radio/Doordarshan:

The Chief Engineer (Central Gujarat) & Addl. Secretary to Government of Gujarat, Narmada, Water Resources, Water Supply & Kalpsar Department, Sachivalaya, Gandhinagar, Collector of concerned district and appropriate authorities (Focal Officers) of rivers in Gujarat or the officers authorized on their behalf are empowered to send flood warning message to be broadcasted over the All India Radio and Doordarshan as and when necessary. The messages will be sent to the nearest Station Director or Duty Officer, by immediate means.

The messages should be written clearly and readable while conveying to AIR and or Doordarshan. Name of the officer should also be conveyed along with telephone number of simultaneously be conveyed to Flood Control Cell, State Water Data Centre Building, Sector-8, Gandhinagar.

In the case of emergency the announcement on Radio/T.V. shall be made every fifteen minutes. Telephone number of the officer of All India Radio.

10.7 Disaster Preparedness for Flood:

Well before the onset of the monsoon, Revenue department convenes a meeting with all the departments and agencies including those of Government of India concerned with rescuem relief and public awareness, under the Chairmanship of Chief Secretary of the State, wherein the detailed contingent plan specifying and delineating the role to be played by various departments during calamity period, pre calamity period and post calamity period is drawn. The checklist for the same is appended below:

10.8 Model Action Plan for disaster preparedness (for Flood) in Kutch district:

1. Have you identified the flood prone blocks, talukas, tehsils, and villages?

2. Is there is a responsible officer-in-charge of relief and anti-disaster operations? Is there clear division of responsibility for flood relief among the officers and the staff?

3. Is there an operation control center? Is there a roster of duties to run it round the clock?

4. Is a log book maintained to keep data about rise of flood waters at regular intervals or the rivers in the state?

5. Is there a co-ordination committee for relief?

- a. Are the district level officers and Block Development Officer of health, Water Resources, Roads and Building, Telephones and Police, represented on it? Does it meet at least 3 weeks before the onset of monsoon?
- b. Are the Sub-divisional Officers and Block Development Officers of flood-prone areas invariably asked to attend the meetings? Are Voluntary Relief organizations having repute and standing and the district branch of Indian Red Cross associated with the committee?

6. How is the flood warning communicated through mobile units and microphone in the flood prone sub-division and blocks to issue warning?

7. Has the Deputy Controller of Civil Defense received any training on disaster preparedness?

8. Has the Deputy Controller of Civil Defense trained the C.D. Wardens in this matter?

9. Has the Home Guards been given any training in disaster preparedness for floods, as well as rescue/relief/first aid.

10. Are the flood prone blocks connected with to the telephones and police?

- a. Mobile water tankers, canvas water tanks, drums and Jerry cans for transporting water buckets are kept ready?
- b. Sand bag for repairs of flood protection embankment are kept ready?
- c. Basic field Sanitary Engineering equipment are available?

11. Has the Chief Medical Officer like wise checked up the stock of essential medicines, vaccines, disinfectants, first aid kits at the District/Sub-divisional medical store and kept the primary health centers in flood prone area well supplied with the following.

- a. Disinfectants such as bleaching powder, chlorine liquid chloroschope, orthotoludine solution, water purifying tablets, phenyl (for ensuring quantity of free chlorine for supplying safe and potable drinking water)
- b. Essential medicines for mobile team and dispensaries in the evacuee camps are available? are such stations provided with wireless set?
- c. Who is responsible for disseminating the flood warning at the village level? Has the village Mukhiya and/or the Sarpanch of the Gram Panchayats been given the responsibility? Do they have transistor?

12. Has the officer-in-charge of relief inspected the District/Sub-divisional Relief stores after the occurrence of the last floods?

13. In particular has he checked the stockpiles of:

- a. Clothing (including children's garments) durries/mats?
- b. Tents, tarpaulin, G.C.I. Sheets and other materials for providing temporary shelters?
- c. Boats, power driven and life-jackets?

14. Anti diarroheals, antibiotics, chomother appecuties and anti malaria drugs, anti phyrotics and analgesic and anti allergic drugs cholorosel I.V. fluids pediatric formulations for treatment of gastro informal and respiratory infections in children have been kept ready?

First aid kits containing splints (including Thoms splints) tornique, dressing and as sorted bandages antiseptic cream, scissors and safety pins, are kept ready?

15. Have flood shelters (Schools, Community Centers) been identified?

- a. Are the pucca buildings situated on raised ground beyond the reach of normal level of flood water?
- b. What steps have been taken to make people aware of these shelters?
- c. Has the list of such shelter been published in the local news papers and displayed in the blocks, taluka and tehsil officers?

16. Are the shelters easily accessible? is it contemplated to use the flood for work progress for constructing link roads?

Do the buildings have adequate space in and around them for storage or fodder and for keeping cattle. 17. Are the shelters provided with sources of drinking water? If not what action being taken to locate water sources, tube wells and wells near the shelters on priority basis?

18. What are the sanitary arrangements for these evacuation camps? Have local officers in charge of these evacuation camps told to construct the following?

- a. Deep trench latrines
- b. Temporary urinals and soak pit.
- c. Incinerations for burning dry refuses.

19. Has the district manager, Food Corporation of India checked up if sufficient stock of food grains are in position in the flood prone areas of the district before the monsoon starts?

20. Has the officer-in-charge of civil supplies ensured that the dealers keep sufficient stock of essential articles like pulses, edible oil, salt, milk powders, baby food, matches and lanterns before the start of flood season?

21. Have the whole-sale consumers co-operative societies, been requested to keep in readiness the stocks of aforesaid articles at the branch level?

22. Have suitable sites for probable helipad on raised grounds in the flood prone area been located? Have these been indicated on the District and Thana Map

23. Has meeting of the Transport Operators been called by the Chairman of the Regional Transport Authority to negotiate with the former the placement of private vehicles at reasonable rates for evacuation of flood victims and movement of relief goods?

24. Has the collector/sub-divisional officer convened a meeting of the ferry owners and co-operative societies of fisherman to ascetain the availability of country boats with boatmen at reasonable rates in the event of an emergency. A few country boats may be converted into improvised boat Ambulances by providing them with 1 or 2 stretchers.

25. Have people in low lying area which are inundated in every flood been alerted first about the flood warning?

a. Are you searching for alternatives sites which can be allotted to such families?

b. Have attempts been made to pursue such families to shift their dwellings to safer locations

26. Has the concerned block identified and kept in readiness in shelf of projects of relief works which can be launched when the flood water recedes?

27. Have the villages water logged for a long time been identified?

28. Is there a list of people who cannot be provided with gainful work, but many have to be fed, freed at Government cost for some time? Have the Panchayats been associated in preparing the list of such beneficiaries for gratuitous relief?

29. Have the people in flood prone villages been trained in relief and rescues?

Have volunteers been grouped for patrolling of embankments are likely to give way?

10.9 Vulnerable villages of Kutch district to Floods Hazards:

List of Villages Likely to be affected by floods on Downstream of the Dams in Kutch Region

Sr. No.	Name of Scheme	Name of District	Name of Taluka	Name of Villages
1	Fatehgadh Irrigation Scheme	Kutch	Rapar	 Gedi Fatehgadh
2	Gajod Irrigation Scheme	Kutch	Mundra	 Beraja Bhujpur Gelad Ramania Tumbadi
3	Godhatad Irrigation Scheme	Kutch	Lakhpat	1. Kapurashi 2. Koriyani
4	Kaila Irrigation Scheme	Kutch	Bhuj	1. Zura

Table 56: Irrigation Scheme with vulnerable villages to flood disaster

5	Kalaghogha Irrigation Scheme	Kutch	Mundra	3. Somaghogha
6	Kankawati irrigation Scheme	Kutch	Abdasa	 Hajapur Miyani Nundhtad Vinzan
7	Kaswati irrigation Scheme	Kutch	Bhuj	 8. Khengarpur 9. Lodia 10. Umedpur
8	Nara-Gajansar irrigation Scheme	Kutch	Lakhpat	 Gajansar Hajipur Nara Uthangadi Zumara
9	Niruna irrigation Scheme	Kutch	Nakhatrana	16. Niruna
10	Rudramata irrigation Scheme	Kutch	Bhuj	17. Dhori 18. Kunaria 19. Sumarasar
11	Sanandro irrigation Scheme	Kutch	Lakhpat	20. Mindhiyari21. Panandhro22. Subhaspur
12	Suvi irrigation Scheme	Kutch	Rapar	23. Gauripur24. Suvi
13	Tappar (W.S.) irrigation Scheme	Kutch	Anjar	25. Bhimsar26. Tappar
14	Bhukhi irrigation Scheme	Kutch	Nakhatrana	 27. Bhimsar 28. Dador 29. Godhiyar 30. Hirapur 31. Karodia 32. Wang
15	Berachiya irrigation Scheme	Kutch	Abdasa	33. Bitiyari34. Bhachundra35. Berachiya36. Rava
16	Don irrigation Scheme	Kutch	Mandvi	37. Don 38. Rajada
17	Jangadia irrigation Scheme	Kutch	Abdasa	39. Aida40. Butta41. Jangadia

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				42. Liyari
18	Mathal irrigation Scheme	Kutch	Nakhatrana	 43. Deshalpar 44. Dhamay 45. Guntali 46. Jinjay 47. Nura 48. Umarapar
19	Mitti	Kutch	Abdasa	 49. Trambo 50. Rampar 51. Chhasara 52. Vadasara 53. Korwali- Wandh

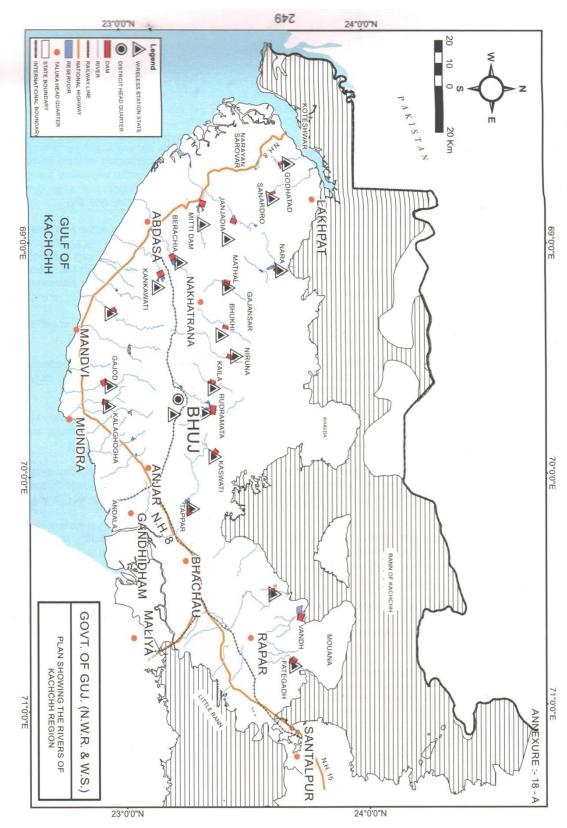


Figure 10: Plan of Kutch district with irrigation schemes

Table 57: Detail Of Capacity Of Reservoir In Kutch District With Concerned Officer Sr. Name of River Danger level Full Reservoir OfficerinChar							
Sr. No.		Danger level		OfficerinCharge			
NO.	Gauge Station	H.F.L.inMeter	LevelinMeter				
1	F.(.1., 11.D.)	(Feet)	(Feet)				
1.	FatehgadhDam	25.15 (82.49)	22.70 (74.48)	EE, WRIDn., Bhuj			
2.	Gajansar Dam	31.89(104.60)	30.00 (98.40)	EE,SalinityControl			
				Dn.,Bhuj			
3.	Gajod Dam	94.90(311.27)	90.82(297.98)	EE,KutchIrri Dn., Bhuj			
4.	Godhatad Dham	27.99 (91.81)	23.00 (75.46)	EE,SalinityControl Dn.,Bhuj			
5	KailaDam	81.74(268.11)	79.25(260.02)	EE,KutchIrri Dn., Bhuj			
6.	KalaghoghaDam	41.19(135.10)	37.00(121.40)	EE,KutchIrri Dn., Bhuj			
7.	Kankawati Dam	133.95(439.36)	131.67(432.01)	EE,KutchIrri Const. Dn.,Bhuj			
8.	KaswatiDam	53.73(176.23)	51.20(167.99)	EE,KutchIrri Dn.,Bhuj			
9.	Nara Dam	32.54(106.73)	27.43 (90.00)	EE,SalinityControl Dn.,Bhuj			
10.	NirunaDam	47.83(156.88)	43.58(142.99)	EE,SalinityControl Dn.,Bhuj			
11.	Rudramata Dam	69.88(229.21)	66.44(217.99)	EE,KutchIrri Dn., Bhuj			
12.	Sanandro Dam	63.32(207.69)	59.74(196.01)	EE,SalinityControl Dn.,Bhuj			
13.	Suvi Dam	46.37(152.09)	42.67(140.00)	EE, WRIDn., Bhuj			
14.	Tappar(W.S.)Dam	41.90(137.43)	40.85(134.00)	Executive Engineer,Public Health Division,Bhuj,Kutch			
15.	Bhukhi Dam	77.15(253.05)	73.00(239.44)	EE,SalinityControl Dn.,Bhuj			
16.	BerachiyaDam	73.99(241.69)	70.40(230.98)	EE,KutchIrri Const. Dn.,Bhuj			
17.	DonDam	54.33(178.20)	47.75(156.67)	EE,KutchIrri Const. Dn.,Bhuj			
18.	Jangadia Dam	42.81(140.42)	38.60(126.64)	EE,Kutch Irri Const. Dn.,Bhuj			
19.	MathalDam	84.87(278.37)	83.18(272.83)	EE,SalinityControl Dn.,Bhuj			
20.	Mitti Dam	23.53 (77.18)	18.25 (59.86)	EE,KutchIrri Const. Dn.,Bhuj			

Table 58 :Important Points of Guidelines Published by NDMA To Be Followed By Field Officers

6		Pointsof Guidelines							
Sr. No.	Pointsor Guidennes								
A	To be followedin the event of dam failure/ sudden release of water.								
1.	Install suchscientificandtechnicalinstrumentswhichareinventedoradoptedforthepurposeof								
	ensuring the safety of the dam and life and property of the people d/s. The inhabitant's d/s should								
		be made aware of the highest flood level and							
2.	Мо	ck drill for mitigation measures be carried out from time	to time to keep the staff and d/s						
		inhabitants prepared for any event							
3.	Proj	ect authority shall ensure identification of vulnerable str							
		ensure proper fencing to stop access to th							
4.	Powe	rful siren/hooters to be installed at audible locations to g							
5.	The de	vicinity of dam site and river bank before rendering sign board/ hoardings to be erected along the vulne							
5.	The da	warning in order to prohibit access of people							
6.	The n	roject authority complies with the norms for observance							
0.	rne p	taken before release/ discharge of water fro							
В	Dev	ising a well defined, adequate and reliable advance alarn							
1.		rning system consisting of hooters/sirens of high capacit							
		m distance of one Km. installed in series up to vulnerable							
		rk of well protected cable/optical fiber using modern tech							
	room o	of Barrage/Dam/even power house with recording mecha							
	T	human error to the extent possible, needs to be u							
2.	The	sirens should be capable of operation both on AC and D							
3.	Simult	Room to avoid malfunctioning in case of pow aneously, a mobile van equipped with public address sys							
5.		rior warning along identified vulnerable stretches for eva							
	to give p	river bank before release of wa							
4.	The	Alarm/Siren for various emerging situations shall be blow							
	Sr.No.	Type of Emergency	Duration						
	1.	NormalDam/ PowerHouseComplexOperation	Continuous1(One)Minute						
	2.	Incase ofFire	10Sec. on,5 Sec. off,5times						
	3.	Emergencysituations/floodrelease	20Sec. on,5 Sec. off,5times						
	4.	Clear	Continuousonfor3Minutes						
	onlyonce.								
5.		public awareness in respect of pre warning sirens/hooters							
	noticeboardhighlightingpre-warningsystemprocedureshouldbeinstalledat appropriateplaces and								
		publicinlargebemade awarebymockdrills fr	omtimetotime.						

Table 59: List of Concerned person of irrigation scheme in Kutch

Sr.	Sinchai Yojna	Under Residance		Contact of village person		Dept. related details		
		Villege	Taluka	Population	Phone no	Details of Officers	Phone no	Designation
1	2	3	4	5	6	7	8	9
				Kutch Irrigation	n Division, Bhuj			
		D.E.E. Bhuj I	rrigation Sub	Division, Bhuj	(Shri R. K. Likhar) Mb. No. 90	160 12299	
1	Rudramata	Dhori	-	7000	9712925188	Head	70209 13966	
		Kunariya		1500	9913055305	Sarpanch		A.E
_		Sumarasar	Bhuj	6000	9428749995	Head		
		Loariya	-	800	9426494700	President		
2	Kayla	Zura		2000	9825833779	Sarpanch	98256 62737	A.E
	D.E.	E. Irrigation Co	nstruction S	ub Division, Bhu	uj (Shri M. D. Me	ghani) Mb.	No. 98986 94055	
		Loday	Bhuj	7000	9825647226	Sarpanch	70209 13966	A.E
3	Kasvati	Khengarpar		2000	9978221936	Head		
		umedpar		2000	9998745283	Head		
		D.E.E. Salinity (Control Sub [Division, Bhuj (Shri D. D. Chavad	a) Mb. No. 9	98799 51306	
		Beraja	Mundra	500	99094 75781	Sarpanch	90168 83336	A.E
4	Gajod	Bhujpur		500	9909525944	Sarpanch		
4		Gelda		1500	91065 90718	Sarpanch		
		Tumbadi		2000	9825397251	Head		
		Samaghoga		2000	97269 04933	Sarpanch		
5	kalaghogha	Dhrumb		1000	99094 76009	Sarpanch		A.E
5		Nana kapaya		1000	9712413430	Sarpanch		
		D.E.E. Salini	ti Control Su	b Division, Anja	ar (Shri P.P. Vala)	Mb. No. 982	44 02397	
	Tappar dam	Navi chirai			9979720481	Head	9825730674	
		Juni chirai		2000	9426217943	Head		
		Nani chirai		4500	9420217945	пеац		
		Gokul gam	Bhachau		9825512230	Head		
		Nandgam						A.A.E
		Jasoda			9426849283	Head		
6		Nani chirai						
					9825228422	Head		
		bhimasar	3000	9879360793	Sarpanch			
			A		9825022912	Head		
		Tappar	Anjar	1500	9979721763	Sarpanch		
			1	700 -	9879250141	Head		
		Pasuda	Pasuda		9825057428	Head		

			Kutch I	rrigation Cons	struction Division, B	3huj			
D. E. E. Irrigation Construction Sub Division, Naliya (Kum.M.K.Pandya) mo. 98255 81448									
7	kankavati	Hajapar	abdasa	500	9978795850	Sarpanch	97266 80785	A.A.E	
		Miyani		700	1				
	1	Nundhatad		2000	9909227887	Sarpanch			
ļ		Vinjan		300	9879714820	Sarpanch			
8	Berachiya	Bhachunda		500	9727322733	Sarpanch	95868 18189	A.E	
ļ	1	Bittiyari		175	9913492505	Sarpanch			
ļ	1	Sandhav		779	9925616346	Sarpanch			
ļ		Rava		500	9979524962	Member of			
ļ	1					gram			
	T. C. Kurkha Con		ht die so (Chui			panchayat			
		ntrol Sub Divisio	1		1	.			
9	Jangadiya	Eida	abdasa	500	9978248689	Sarpanch	88496 72271	A.E	
ļ	1	Goyala		250	8758576475	Sarpanch			
ļ	1	Mokhara		358	9978350416	Sarpanch			
	L	Jangadiya		630	9429296793	Sarpanch			
10	Mitti	Rampar		1774	9909581900	Ta.member	88496 72271	A.E	
ļ	1	!			9879398262	Sarpanch			
ļ	1	Trambo		342	9878740969	Gram	1		
ļ	1	ļ!				member			
ļ	1	kervandh	4	500	9687703508	Dy.Sarpanch			
ļ		Laiyari	-	240	(02831)294743	Head			
ļ	1	Vadsar		272	9979184986	Head			
ļ	1	Kosha		406	9427441084	Head			
	l	Chasara		311	9687191385	Head			
D. E.	E. Salinity Ing	ress Investigatic	on Sub Divisio	n, Mandavi(Sh	nri Sonukumar Singl	h) mo. 91452 67	943		
11	Don	Dona	mandavi	1000	9998192156	Sarpanch	81400 15977	A.E	
,		Rajada		500	8758965719	Gram			
		!	4		2212254004	member			
		Ratadiya	4	2500	3313061001	head			
لـــــــــــــــــــــــــــــــــــــ	<u> </u>	Godhra	<u> </u>	1200	9909516462	sarpanch			
					ol Division, Bhuj				
D. E. E. Water Resources Investigation Sub Division, Dayapar(V.S.Dhanvani) mo.75679 76679									
12	Nara – Gajansar	Hajipir	Bhuj	500		Pramukh Nara Sinchai	98700 70453	A. E	
		Nara	Lakhpat	700	9879033069 9427766489				
		Uthgandi	Nakhtrana	300			97231 59431	A. E	
	l	jumara	Lakhpat	150]!		<u> </u>		
					<u> </u>	<u> </u>			

13 Godhatad	Kapurasi	Lakhpat	1500	7069566180	President	99251 18325	A.E.	
			-			ghodhatad	-	
		Koriyni		1500	7069566180	Mandli Pramukh		
14	Sanandhro	Pandhro	-	2000	9925854193	Sarpanch	99251 18325	A.E.
		Subhashpur	ubhashpur 20	2000	-			
		Mindiyari	-	500	8091278692	Sarpanch	-	
D. E.	E. Nakhatrana	a Irrigation Sub D	vivision, Nakha	trana (Shri P	.R.Pitroda) Mo.997	795 07691		
15	Nirona	Nirona	Nakhtrana	3000	9879558110	Head	73693 63702	A.E
16	Bhukhi	Gondhiyar	-	900	9426608797	sarpanch	95867 68069	A.E.
		Dador		800	9979948968	head		
		Vang		3000	9825679131	Ta.member		
D. E.	E.Water Reso	urces Investigati	on Sub Divisio	n, Nakhatran	a (Shri S.V.Chauha	n) Mo.98986 740	080	
17	Mathal	Mathal	Nakhtrana	2800	9427768238	Sarpanch	95867 57535	A.E
		Desalpar		2200	9712296469	Sarpanch		
			1 1					
		Jinjay		650	9662700566	Sarpanch		
		Jinjay dhamay	-	650 770	9662700566 9427763074	Sarpanch Sarpanch	-	
			-			· ·	-	
			Water Res	770		Sarpanch	-	
D. E.	E. Irrigation S			770 sources Inves	9427763074 tigation Division, B	Sarpanch		
	E. Irrigation S Suvi	dhamay		770 sources Inves	9427763074 tigation Division, B	Sarpanch	81411 15955	A.E.
	-	dhamay ub Division, Rapa	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 9	9427763074 tigation Division, B 9747 39159	Sarpanch huj	81411 15955	A.E.
	-	dhamay ub Division, Rapa	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 9	9427763074 tigation Division, B 9747 39159 9979720760	Sarpanch huj sarpanch	81411 15955	A.E.
	-	dhamay ub Division, Rapa Jesda	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100	9427763074 tigation Division, B 9747 39159 9979720760 9712206898	Sarpanch huj sarpanch head	81411 15955	A.E.
D. E . 18	-	dhamay ub Division, Rapa Jesda	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100	9427763074 tigation Division, B 9747 39159 9979720760 9712206898 9974187192	Sarpanch huj sarpanch head sarpanch	81411 15955	A.E
	-	dhamay ub Division, Rapa Jesda Suvi	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100 2300	9427763074 tigation Division, B 9747 39159 9979720760 9712206898 9974187192 9879360380	Sarpanch huj sarpanch head sarpanch President	81411 15955	A.E.
	-	dhamay ub Division, Rapa Jesda Suvi Gauripar	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100 2300 900	9427763074 tigation Division, B 9747 39159 9979720760 9712206898 9974187192 9879360380 9979307293	Sarpanch huj sarpanch head sarpanch President sarpanch	81411 15955	A.E.
18	-	dhamay ub Division, Rapa Jesda Suvi Gauripar	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100 2300 900	9427763074 tigation Division, B 9747 39159 9979720760 9712206898 9974187192 9879360380 9979307293 9913241988	Sarpanch huj sarpanch head sarpanch President sarpanch sarpanch	81411 15955 81411 15955	
18	Suvi	dhamay ub Division, Rapa Jesda Suvi Gauripar Vanoi	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100 2300 900 1600	9427763074 tigation Division, B 9747 39159 9979720760 9712206898 9974187192 9879360380 9979307293 9913241988 9875882979	Sarpanch huj sarpanch head sarpanch President sarpanch sarpanch Head		
18	Suvi	dhamay ub Division, Rapa Jesda Suvi Gauripar Vanoi Gedi	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100 2300 900 1600 1500	9427763074 tigation Division, B 9747 39159 9979720760 9712206898 9974187192 9879360380 9979307293 9913241988 9875882979 9924665202	Sarpanch huj sarpanch head sarpanch President sarpanch sarpanch Head Sarpanch		
	Suvi	dhamay ub Division, Rapa Jesda Suvi Gauripar Vanoi Gedi	ar(Shri M.G.Pa	770 sources Inves nchal) Mo. 99 1100 2300 900 1600 1500	9427763074 tigation Division, B 9747 39159 9979720760 9712206898 9974187192 9879360380 9979307293 9913241988 9875882979 9924665202 9825765778	Sarpanch huj sarpanch head sarpanch President sarpanch sarpanch Head Sarpanch Sarpanch		A.E. A. E

10.10 Satellite website for storm prediction:

http://en.allmetsat.com/images/asia/.php

http://en.allmetsat.com/images/met5_cimss_irc.php

http://manati.orbit.nesdis.noaa.gov/dataimages21/cur/zooms/WMBas49.png

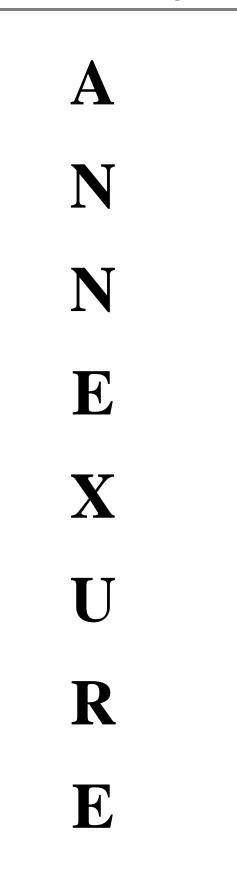
http://cimss.ssec.wisc.edu/tropic/real-time/indian/images/xxirmet5n.GIF

http://cimss.ssec.wisc.edu/tropic/real-time/indian/images/xxwvmet5.GIF

http://www.imd.ernet.in/main_new.htm

http://www.sat.dundee.ac.uk/abin/geobrowse/IODC/2007/8/7/600





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Disaster	Year	Magnitude /extent	Talukas & no. of villages affected	Life & cattle loss	Damage to property	Economic losses
Earthquake	2001	7.7	10 Taluka 884 Village Affected	13805	146087 houses fully damage,278217 houses medium damage infrastructures were damaged to avariable extent.	Around 448 crore privet and public property
Cyclone	1998	4	Gandhidham, Mundra, Anjar	4000		
Cyclone (Biporjoy)	2023	-	10 Taluka,852 Village	Read Table:7	Read Table:7	-
Flood	2011	3	2 Taluka 200 village	1 Death 41 cattle loss		18947 lakhs Rs.
Heat wave	Almost Every Year		6			
Cold wave						
Drought	Around Every 4-5 Year		4 Taluka			
Industrial disaster						

Annexure: 1 History of past disasters in District

Annexure: 2

List of vulnerable talukas and villages with risk ranking (Hazard wise)

Cyclone and Tsunami Vulnerable Number Taluka and village

	Villages Near by coastline										
Sr.	r. Taluka Distance of village from coastal line										
No		0 to 1 km	1 to 5 km	5 to 10 km	10 to 15 km						
1	Mandvi	4	8	0	0	12					
2	Mundra	0	8	7	3	18					
3	Anjar	0	0	2	5	7					
4	Gandhidham	1	1	5	2	9					
5	Bhachau	2	7	7	2	18					
6	Abdasa	5	11	4	0	20					
7	Lakhpat	3	17	15	4	39					
	Total	15	52	40	16	123					

Sr.	Taluka	Sr.	Name of	Populatio	Sr.	Name of Village	Population as
No.		No	Village	n as on 2011	No.		on 2011
		1	Maska	4097	7	Bada	1442
		2	Gundiyali	3169	8	Panchetiya	666
1	Monder	3	Tragadi	824	9	Bambhdai	804
1	Mandvi	4	Nana Bhadiya	799	10	Motasalaya	8500
		5	Kathada	2537	11	Bhada	742
		6	Mothava	903	12	Nanalayaja	781
		1	Jakhaou Solt	448	11	Charopadi	358
		2	Rapra(Gadh)	465	12	Kamdb	94
		3	Sindhodi Moti	464	13	ladhedi	654
		4	Mohadi	110	14	Buyado	474
2		5	Pigaleshwar	45	15	kervadh	891
2	Abdasa	6	Chhachi	547	16	DaradVandh	125
		7	Kosa	321	17	Valarivandh	80
		8	Suthari	1997	18	Namanivas	45
		9	Ashiravadh	595	19	Bharuvandh	286
		10	Bhagonivadh	98	20	Gelari	375
		1	Naraynsarovr	984	21	Medi	125
		2	Koteswar	2	22	Garapaivadh	62
		3	Chhernani	465	23	Kapurrachi	1425
		4	Sinapar	307	24	Punrajpar	333
		5	Cher moti	495	25	Sheh	165
		6	Kanoj	257	26	Kanoj	257
		7	Guhar moti	207	27	Rodasar	368
		8	Guneri	848	28	Kunari	55
		9	Lacki	92	29	Koriyani	965
2	T - 1-1	10	Bhutav	85	30	Muthavay	333
3	Lakhpat	11	Pipar	752	31	Kaiyari	89
		12	Ragavadh	98	32	Kegarpar	38
		13	Gugariyana	220	33	Mardo	96
		14	Khirasara	260	34	Saira	269
		15	Andharvandh	69	35	Shigera	125
		16	Kehara	170	36	Beiyavo	107
		17	Mori	129	37	Umarsar	117
		18	Kaner	232	38	Naredi	158
		19	Lakhpat	436	39	Gohdathar	63
		20	Khirashara	106			

Details of Villages Situated on Sea Beach Area

4	Anjar	1	Tuna	2087	5	Varsana	1047
		2	Sanghad	2801	6	Rampar	953
		3	Vira	1314	7	Vandi	1000
		4	Mathak	1925			
					•	·	·
5	Gandhi-	1	Kandla	19700	6	Chudav	293
	dham	2	Antarjad	6036	7	Kharirohar	4150
		3	Kidana	9285	8	Patana	1764
		4	Gadpadar	5537	9	Shinai	3201
		5	Mithirahan	4259			
6	Bhachau	1	Surajbari	634	10	Laliyana	2189
		2	Lakhapar	823	11	Sadavana	2277
		3	Sikarpur	4842	12	Vadiya	3039
		4	Jangi	4880	13	Voth	4741
		5	Ambaliyara	2373	14	Motichirai	4412
		6	Lagadhiraghad	308	15	Naransari	308
		7	Modhpar	365	16	Navakatariya	608
		8	Godpar	519	17	Chopadava	1051
		9	NAni chirai	4808	18	Lunava	1371
	•		-				
7	Mundra	1	Tundavandh	1207	10	Shekhardima	715
		2	Kandagara	2306	11	Loni	2666
			mota				
		3	Siracha	923	12	Bhadreshwar	3516
		4	Navinal	1146	13	Kukadsar	721
		5	Jarpara	5762	14	Nanakapaya	1262
		6	Dranb	2007	15	Borana	400
		7	Mundra	12930	16	Kuvapandhar	109
		8	Baroi	2741	17	Vadala	1751
		9	Gokarsama	727	18	Ratha	130

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Annexure: 3

Sr.	Name of Taluka Name of Vulnerable Villages		Irrigation	Irrigation	
	Dam			Spot	Area (H)
1	Bhukhi	Nakhatrana	Godhiyar, Dadar, Vang	Devisar	1672
2	Mathal	Nakhatrana	Deshalpar, Mathal, Jijay	Mathal	853
3	Nirona	Nakhatrana	Nirona	Nirona	2430
4	Berachiya	Abdasa	Bhachunda, Bitiyari, Rava	Berachiya	358
5	Jangadiya	Abdasa	Jangadiya, Aida, Sukhpar, Vadjar, Chasara,	Jangadiya	1118
			Kervandh, Kosha, Rampar, Laiyari		
6	Miti	Abdasa	Trambo, Rampar, Chasara, Korvali, Vandh,	Trambo	2025
7	Kankavati	Abdasa	Hajapar, Miyani, Nundhatal, Vinjan	Kharoa	1559
8	Donn	Mandavi	Donn, Rajada	Donn	294
9	Tapar	Anjar	Tapar, Pasuda, Bhimasar, Varsana,	Tapar	0
			NaniChiray, Motichirai,		
10	Fatehgadh	Rapar	Gedi, Fatehgadh	Fatehgadh	513
11	Suvi	Rapar	Gauripar, Suvai	Suvai	984
12	Gajod	Mundra	Beraja, Bhujpar, Belada, Rumaniya, Tumadi	Gajod	1154
13	Kalaghogha	Mundra	Samaghogha,	Kalaghogha	322
14	Godhatal	Lakhpat	Kapurasi, Koriyani	Godhatal	664
15	Sandhro	Lakhpat	Mindhiyali, Pandhro, Subhaspar	Sandhro	668
16	Gajansar	Lakhpat	Gajansar, Hajipir, Uthat Gadi, Jumara	Gajnsar	1731
17	Nara	Lakhpat	Nara	Nara	1731
18	Kayala	Bhuj	Jura	Bhakhara	876
19	Kaswati	Bhuj	Khengarpar, Loriya, Umedpar,	Lodai	607
20	Rudramata	Bhuj	Dharoi, Kunariya, Sumrasar	Lokhaniya	2997

List of Villages Vulnerable for Flood Due to Dam

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Annexure: 4

Area Vulnerable Due to Flood Hazard Area of Kutch

Sr. No.	Name of Area	Population	Mandavi (Village a Effected Area	Safe Spot
<u>sr. No.</u> 1	Donn	1083	Surrounding Area	Primary School - Donn
2	Rajada	299	Surrounding Area	Primary School - Dohin Primary School - Rajada
2	Kajaua		aluka- Mundra	Timary School - Rajada
				Primary School - Mundra
1	Mundra	11652	Surrounding Area	R.D.High School – Mundra Shah muradpir Dargah-Mundra
2	Patri	1877	Surrounding Area	Primary School - Patri
3	Vanki	1315	Surrounding Area	Primary School and HealthCenter Patr
4	Lakhapar	949	Surrounding Area	Primary School - Lakhapar
5	Toda	473	Surrounding Area	Primary School - Toda
6	Beraja	1281	Surrounding Area	Primary School - Beraja
7	Chasara	855	Surrounding Area	Primary School - Chasara
8	Mokha	453	Surrounding Area	Primary School - Mokha
9	Vadala	1277	Surrounding Area	Primary School - Vadala
10	Babiya	100	Surrounding Area	Primary School - Babiya
11	Pavadiyara	198	Surrounding Area	Primary School - Pavadiyara
12	Hatdi	439	Surrounding Area	Primary School - Hatdi
13	Fachariya	293	Surrounding Area	Primary School - Fachariya
14	Ratadiya	965	Surrounding Area	Primary School - Ratadiya
15	Vovar	1130	Surrounding Area	Primary School - Vovar
16	Gundala	1425	Surrounding Area	Primary School - Gundala
17	Bhadreshwar	3470	Surrounding Area	Primary School - Bhadreswar
			Taluka-Bhuj	
1	Bhuj		Surrounding Area	Govt. High School-Bhuj Primary School – Bhuj Lohana Mahajan Wadi-Bhuj Visha Oshwal Jain Mahajan Wadi-Bhu
2	Kalyan par		Surrounding Area	Primary School – Kalyanpar
3	Godpar		Surrounding Area	Primary School –Godpar
4	Jikadi		Surrounding Area	Primary School – Jikadi
5	Kunariya	1120	Surrounding Area	Rudrani Jagir
6	Sumarasar	3581	Surrounding Area	Govt. Food Godaoun-Bhuj
7	Dhori	2895	Surrounding Area	Primary School – Dhori
8	Jura	3385	Surrounding Area	Rudrani Jagir
9	Lodai	3068	Surrounding Area	Primary School – Jikadi
10	Umedpur	200	Surrounding Area	Primary School – Raydhanpar
11	Khengarpar	443	Surrounding Area	Godhara Dharmashala Near railway Station Bhuj
		Talı	ıka – Anjar City	
1	Mafatnagar Anjar		Surrounding Area	Town Hall –Anjar D.V.High School – Anjar
2	Momay Nagar- Anjar		Surrounding Area	K.K.M.S. High School Anjar
3	Khatri Colon y		Surrounding Area	Primary School – Anjar SwamiVivekanandHigh School, Anja

		Taluk	a – Anjar Village A	Area
1	Tuna	2613	Surrounding Area	Primary School – Siyan and antarjal
2	Sanghad	Sanghad 2285		Primary School – Navalagavaladiya
3	Vira	1084	Surrounding Area	Primary School – Nagavaladiya
4	Mathak	1496	Surrounding Area	Primary School – Nagavaladiya Primary School – Sinay
5	Varsana	432	Surrounding Area	Primary School – Bhimasar
6	Rapar	627	Surrounding Area	Primary School – Siyan Primary School – Antarjal
7	Vandi		Surrounding Area	Primary School – Siyan Primary School – Antarjal
		Talı	uka – Gandhidha	m
			tation, North South of	
1	Area of Railway Station	Vallbhabha KPT Office	ai Statue ST Bus Stand e Shiv Mandir Chavala Chowk Area	Lohana mahajanwadi- Gandhidham
2	Navi Sundarpuri		Surrounding Area	Adarsh GirlsSchoolSadhuVasvaniSchool Gandhidham,
3	Juni Sundarpuri		Surrounding Area	Lions Club Gandhidham P.n.AmarsinhSchool Gandhidham
4	Maheswari nagar Sonal Nagar Bharat nagar		Surrounding Area	SaraswatiSchool Gandhidham
5	Jagjivan nagar Near kargo MotorsGopalpuriNah eruPark		Slums and Surrounding Area	Mordan School Gandhidham Bhartiya Vidhya mandir Gandhidham Town Hall Gandhidham
6	Sector 5-6 Near Sathwara Mandir		Surrounding Area	Mount KarnvelSchoolGandhidhamMordanSchoo l Gandhidham
7	Adipur Police Station		Surrounding Area	JillaPanchyatPrimary School
8	Adipur Charwadi and Sat wadi Line		Surrounding Area	Lohana mahajan Wadi Adipur
9	Adipur Ashram and B/h Janta petrol pump		Surrounding Area	Maitri mahavidhyalay and kanyavidhyalayadipur
10	B/h Adipur z Banglo		Surrounding Area	Gujarat Vidhyalay Adipur
11	Sarva kandlalabour camp and slums		Surrounding Area	Bhartiy Vidhyamandir nava kandla
12	Siyan Dem		Surrounding Area	Maitri vidhyalay Adipur
13	Antar jal		Surrounding Area	Primary School – Antarjal
14	Kidana		Surrounding Area	Primary School – Kidana
15	Miti rohar		Surrounding Area	Primary School – Mithirohar
16	Khari rohar		Surrounding Area	Primary School – Khari rohar
		T	aluka – Bhachua	
1	Chobari	5035	Surrounding Area	Primary School – Manfara
2	Adhoi	6769	Surrounding Area	Primary School – Samkharyari
3	Ratanpar	630	Surrounding Area	Primary School – Gadhada
4	Janna	779	Surrounding Area	Primary School – Gadhada
5	Ganeshpar	756	Surrounding Area	Primary School – Gadhada
6	Jadsa	400	Surrounding Area	Primary School – Gaunada Primary School – Kanthkot
7	Lunava	832	Surrounding Area	Primary School – Chopadva and sukhapar
/	Dunava	032	Surrounding Area	- Thim y School – Chopauva and Sukhapat

8	Shivlakha	1409	Surrounding Area	Primary School – Samkhiyari
9	Juna katariya	2431	Surrounding Area	Primary School – Vandhiya
10	Narayansari	359	Surrounding Area	Primary School – Modpar
11	Shikarpur	2558	Surrounding Area	Primary School – LakhdhirgadhPrimary
11	Silikaipui	2338	Surrounding Area	School – Godpar
12	Moti chiray	3392	Surrounding Area	Govt. HoghSchoolBhauchua
12	Moti Chinay	5592	Surfounding Area	Primary School – Bhachua
13	Numinalian 2555	2555	Surrounding Area	Govt. School Bhachua
15	Nani chiray	2555	Surrounding Area	Primary School – Bhachua

Taluka – Rapar								
1	Gedi	Surrounding Area	Primary School – Primary Health Center - Gram Panchayat – gedi					
2	Deshalpar	Surrounding Area	Primary School –Primary Health Center - Gram Panchayat – Deshalpar					
3	Anandpar	Surrounding Area	Primary School –Primary Health Center - Gram Panchayat – Anandpar					
4	Vrujvaniu	Surrounding Area	Primary School –Primary Health Center - Gram Panchayat – Vrujvani					
5	Shivgadh	Surrounding Area	Primary School – Primary Health Center - Gram Panchayat					
6	Suvai	Surrounding Area	Primary School – PrimaryHealthCenter - Gram Panchayat – Suvai					
7	Gauvripar	Surrounding Area	Primary School –Primary Health Center - Gram Panchayat					
8	Narayanpar	Surrounding Area	Primary School –Primary Health Center - Gram Panchayat – Narayanpar					
9	Jadavas	Surrounding Area	Primary School –PrimaryHealthCenter - Gram Panchayat – Jadavas					
10	Jilarvandh	Surrounding Area	Primary School –PrimaryHealthCenter - Gram Panchayat – Jatawada					
11	Palasava	Surrounding Area	Primary School – PrimaryHealthCenter - Gram Panchayat – Palasava					
12	Lakadavandh	Surrounding Area	Primary School – PrimaryHealthCenter - Gram Panchayat – Jatawada					

Taluka – Nakhatrana

Lakhodi		Surrounding Area	Primary School – Tara
Moti aral		Surrounding Area	Primary School – Motriaral
Nani Aral		Surrounding Area	Primary School – Nani Aral
Nana Angiya		Surrounding Area	Primary School – Nana Angiya
Mota angiya		Surrounding Area	Primary School – Mota Angiya
Chandranagar		Surrounding Area	Primary School – Chandranagar
Tharawada		Surrounding Area	Primary School – Dharawada
Jalu		Surrounding Area	Primary School – Jalu
Sanganara		Surrounding Area	Primary School – Sanganara
Godhipar	200	Surrounding Area	Primary School – Bibar
Vang	878	Surrounding Area	Primary School – Bibar
Dador	290	Surrounding Area	Primary School – Bibar
Jinjay	426	Surrounding Area	Primary School – Deshalpar
Dhamaya	216	Surrounding Area	Primary School – Deshalpar
Nirona	4348	Surrounding Area	Primary School – Palnpur (Badi)
		Taluka – Abdasa	l l
Nundhatad	1163	Surrounding Area	Bhanushali mahajan Wadi Gram panchayat – Nundhatad
Hajapar	748	Surrounding Area	Bhanushali mahajan Wadi Gram panchayat – Hajapar
Miyani	47	Surrounding Area	Bhanushali mahajan Wadi Gram panchayat – Hajipir
Vijan	767	Surrounding Area	Primary School and Business Association – Vijan
Hingariya	272	Surrounding Area	Jain Mahajan Trust Pragati Mandal- Naredi
Aida	571	Surrounding Area	Bhanushali mahajan Wadi Gram panchayat
	Moti aral Nani Aral Nana Angiya Mota angiya Chandranagar Tharawada Jalu Sanganara Godhipar Vang Dador Jinjay Dhamaya Nirona Nundhatad Hajapar Miyani Vijan Hingariya	Moti aralNani AralNana AngiyaMota angiyaMota angiyaChandranagarTharawadaJaluSanganaraGodhipar200Vang878Dador290Jinjay426Dhamaya216Nirona4348Nundhatad1163Hajapar748Miyani47Vijan767Hingariya272	Moti aralSurrounding AreaNani AralSurrounding AreaNana AngiyaSurrounding AreaMota angiyaSurrounding AreaChandranagarSurrounding AreaChandranagarSurrounding AreaTharawadaSurrounding AreaJaluSurrounding AreaSanganaraSurrounding AreaGodhipar200Surrounding AreaMotor290Surrounding AreaJinjay426Surrounding AreaJinjay216Surrounding AreaNirona4348Surrounding AreaNundhatad1163Hajapar748Vijan767Surrounding AreaHingariya272Surrounding AreaHingariya272Surrounding Area

				– Aida			
7	Mokhara	271	271 Surrounding Area	Business Association-Goyala			
-				Bhanushali Mahajan Khokhara			
8	Goyala	343	Surrounding Area	Business Association-Goyala			
0	Obyala	545	Surrounding Area	Gram panchayat Goyala			
9	Rava	612	Surrounding Area	Bhanushali mahajan Wadi Bhanu farm			
9	Kava	012	Suffounding Area	Rava			
10	Ditizioni	163	Sumounding Anos	Bhanushali mahajan Wadi Gram panchayat			
10	Bitiyari	105	Surrounding Area	– bhacuda			
11	Negor	313	Sumounding Anos	Madresh kamiti Nagor Gram panchyat			
11	Nagor	515	Surrounding Area	Gadhvaravada			
10	Dhaabuu da	454	G 1: A	Bhanushali mahajan Wadi Gram panchayat			
12	12 Bhachunda 454 Surrounding Area		Surrounding Area	– Bhachunda			
13	Trambo	232	Surrounding Area	Bhanushali mahajan Wadi Rampar Abda			

14	Rampar Abda	1276	Surrounding Area	Bhanushali mahajan Wadi Rampar Abda	
14	Kampai Abua	1270	Surfounding Area	Vivekanand Trust Naliya	
15	Vadsar	154	Surrounding Area	Bhanushali mahajan Wadi Rampar Abada	
15	v ausai	134	Surrounding Area	Vivekanand Trust Naliya	
16	Chasara	281	Surrounding Area	Bhanushali mahajan Wadi Gram panchayat	
10	Chasara	201	Surrounding Area	– Chasara	
17	Kervandh	731	Surrounding Area	Madresh Gram Panchayat Kervandh	
17	Kosa	251	Surrounding Area	Madresha Gram panchayat Kervandh	
10	Suthari	1907	Surrounding Area	Jain MahajanWadiPrimary School Suthari	
20	Chachi	414	Surrounding Area	Jain Mahajan Trust Sandhan	
20	Dhuvai	90	Surrounding Area	Jain Mahajan Trust Sandhan	
21	Khudiya	185	Surrounding Area	Jain Mahajan Wadi Jakhua	
22	Kliuulya	165	Surrounding Area	Bhanushali mahajan Jakhua	
23	Sindhodi nani	22	Surrounding Area	Jain MahajanWadiPrimary School Rapar	
23	Sindhodi nam	22	Surrounding Area	Gadhvadi	
24	Kaduli	232	Surrounding Area	Jain MahajanWadiPrimary School Rapar	
24	Kaduli	232	Surrounding Area	Gadhvadi	
25	Khuado	222	Surrounding Area	Primary School Jain Mahajan Trust	
23	Kiluado		Surrounding Area	Sandhan	
26	Thumadi	64	Surrounding Area	Primary School Business Association Vior	
20	Garad Vandh	51	Surrounding Area	Govt. High School Jain mahajan Trust	
21	Garad Validii	51	Surrounding Area	Jakhua	
28	Valavari Vandh	150	Surrounding Area	Ramvada Mandir Trust Ramvada	
20	Navavas	118	Surrounding Area	Sanghi Cement Co. Motiber	
30	Golai	375	Surrounding Area	Sanghi Cement Co. Motiber	
31	Bhadra Vandh	99	Surrounding Area	Jain Mahajan Trust Jakhau	
01	Dinunu (unun		Taluka – Lakhpat		
1	Subhas par	711	Surrounding Area	Primary School – Subhas par	
	Mindhiyari	737	Surrounding Area	Primary School – Mindhiyari	
$\frac{2}{3}$	Nara	1026	Surrounding Area	Primary School – Nindinyan Primary School – Nara	
4	Jumara	661	Surrounding Area	-	
			ě	Primary School – Jumara	
5	Kapurasi	528	Surrounding Area	Primary School – Kapurasi	
6	korirasi	1024	Surrounding Area	Primary School – Koriyani	
7	Khasot	277	Surrounding Area	Primary School – Khasot	
8	Dhareshi	406	Surrounding Area	Primary School – Dhareshi	
9	Junachiya	186	Surrounding Area	Primary School – Junachiya	
10	Ashapar	523	Surrounding Area	Primary School – Ashapar	
11	Sambhada	127	Surrounding Area	Primary School – Sambhada	
12	Ramaniya	103	Surrounding Area	Primary School – Ramaniya	
13	Chamara	138	Surrounding Area	Primary School – Chamda	
14	Kanoj	175	Surrounding Area	Primary School – Kanoj	
15	Guhar	321	Surrounding Area	Primary School – Guhar	

Annexure: 5

List Of Resources Available In Emergency Essential Resource Reserve(EERR) Kit At District Level (DEOC), Kutch

Sr. 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

Annexure: 6

Sr. No.	Name on Municipality	Portable Inflatable Emergency Lighting system	Motor-cycled Mounted Water Mist	Trolley Mounted Water Mist	Water Bowser	Mini Fire Tender
1	Bhuj	2	1	0	2	2
2	Anjar	2	1	0	1	1
3	Bhachau	2	0	0	1	1
4	Rapar	2	0	0	1	1
5	Gandhidham	2	3	2	1	2
6	Mandvi	2	1	0	1	1
7	Abdasa	1	0	0	0	0
8	Nakhatrana	1	0	0	0	0
	Total	12	6	2	7	8

List of resources or equipment available in Municipality of district

24

Sr.	(A)Vehicles	Nos
1	Foam Nurser	01
2	Multifunctional Rescue with Crane	01
3	Water Bowser	02
4	Emergency Tender	00
5	Hook arm Container	00
6	High capacity Pump	02
7	Utility van (Pick up)	01
8	Command Vehicle	01
9	Water Rescue Boat	05
10	14 Seater HDPE Boat	01
11	Air Boat	00
12	Water Tender	01
13	Mini Rescue Tender	03
14	Motor cycle with mist	00
15	Emergency Response Van	00
16	Hook arm truck	02
17	Emergency Rescue Vehicle	00
18	New Fire Tender multi purpose with robort	00
Total		20
	(B) CONTAINERS	
1	USAR Container	02
2	Medical Container	01
Total		03
	(C) Search & Rescue Equipments	
1	Self Contained Clean Air Breathing apparatus	15
2	Personal Protection Suit	12
3	Spare cylinder	30
4	Air Line Equipment	00
5	Positive Pressure ventilator	00
6	Gas Tight Suits	05
7	Inflatable Decontamination System	00
8	Leak sealing Equipments	02
9	Non Sparking tools	02
10	Multi gas Detector	01
11	Emergency Lighting	02
12	Under Water search camara	00
Total		69
	Grand Total	92

Annexure: 7 nts/Vehicles available in Candhidham FRC (Kutch) List of resource Faui

Annexure: 8

List of Boats available with Fishery Department of Kutch District

Sr. No.	Taluka	Name of Boat	Name of Owner	Location	Contact Number	Remark
1	Bhuj	Fiber	Collector office	Fishery department	02832 250292	Not In Working Condition

Annexure: 9

Sr.	T	Items	Number	Contact
No.	Location	/equipment	of Items	No.
1.	Bhuj	Water Tanker	1	C.B.Dudiya (Deputy Executive
	Ū.	Manpower	22	Engineer) 8141120960
		Dumper	1	
2.	Nakhtrana	Dumper	1	B.D. Prajapati
	Nakhatrana, Dayapar	Manpower	12	(Deputy Executive Engineer) 7600650739
	Anjar	Tipper	1	D.A. Manuada
3.	Anjar, Gandhidham, Mundra	Manpower	25	P.A. Marvada (Deputy Executive Engineer) 9825257564
4.	Bhachau	Manpower	9	M.S.Shah (Deputy Executive Engineer) 8128907820
5.	Rapar	Manpower	8	S.P. Ramjiyani (Deputy Executive Engineer) 9979062960
6.	Mandvi	Manpower	2	K.B.Nayi (Deputy Executive Engineer) 9978883303

List of resourcesor equipment available with R&B (State) List of resources or equipment available with R&B Contractor

Sr. No.	Taluka	Equipment	No of Unites	ContactNo.
		JCB	4	Mepani Construction –
1		Loader	1	9265462503 Rabdiya Construction
	Bhuj	Roller	1	9426227342
		Dumper	5	Bhimji Velji Sorathiya 9879520183
		JCB	2	KLP Enterprise-
2	Nakhatrana	Tractor	1	9879897566 Suma Kalyan- 9879631180
	Mandri	JCB	2	Manani Canatanatian
3	Mandvi,	Damper	2	Mepani Construction 9426382165
	Naliya	ManPower	14	9420382103
4		JCB	1	Khoda Construction
4	Anjar	Damper	1	9978765519
		JCB	3	
5	Bhachau	Loader	2	Maruti Abhiyantriki
5	Dilacilau	Damper	4	9726837287
		Tractor	3	
		JCB	0	Divush Theldren
6	Rapar	Loader	1	Piyush Thakkar
0	Кара	Damper	1	9712964997
		Tractor	2	7/12/04/77
		JCB	2	Adesh Construction-
7	Lakhpat	Tractor	1	9825339153
,	Lakiipat	Dumper	1	Maruti Abhiyantriki 9726837287
0	Gandhidham	JCB	1	Katira Construction
8		Damper	1	9825225065
9	Mundra	JCB	2	KLP Enterprise
,		Damper	1	99879897566

Annexure: 10

List of resources or equipment available with R & B (panchayat)

Sr. No.	Location	Items /equipment	Number ofItems	ContactNo.
1	Bhuj	Jeep	1	02832 250834 / 9825388575
•	Sub divisionbhuj	Jeep	1	02832 222857 / 7600650739
2	SubdivisionMandvi	Jeep	1	02834 223354 / 9825257564
3	Sub divisionMundra	Jeep	1	02838 246363 / 9825257564
4	Subdivision Nakhatrana	Jeep	1	02835 222163 / 9099683252
5	Subdivision Bhachavu	Jeep	1	02837 244056 / 9824811300
6	Subdivision Dayapar	Jeep	1	02839 233353 / 9429808500
7	Subdivision Naliya	Jeep	1	02831 222143 / 9925025004
	Total		9	

Annexure: 11

List of resources or equipment available with R & B Contractor

Sr.no	Nameof owner	Type ofvehicle/equipment	Noof vehicle	Contact no
1	Ravjimanjisorathiya	JCB	2	9825227359
•	Ravjimanjisoratinya	Dumper	15	9020227009
2	M.Minfastructurpvt.ltd	JCB	2	9825225948
2	พี่เพิ่มและเมืองเป็นที่มีหน้าเป็	Dumper	13	9020220940
3	Valimeve construction	JCB	2	0005700544
3	Valjimayaconstruction	Dumper	16	9825730544
4	Mepaniconstruction	JCB	2	9426382165
7	Mepaniconstruction	Dumper	3	3420302103
5	Bhimjiveljishorathiya	JCB	3	9925561720
5	Bhingiveijishoratinya	Dumper	18	0020001120
6	Katiraconstruction	JCB	3	9825225092
•	Ratifacensitaction	Dumper	17	0020220002
7	Rabadiyaconstruction	JCB	2	9426227342
	Rabacityaconstruction	Dumper	15	5720221072
8	Niravconstruction	JCB	2 0000	
0	i i aveonstruction	Dumper	16	9909885174

9	M.K.Cinfastructur	JCB	2	825603321
9	M.K.Chilasu uctui	Dumper	19	020000021
10	Viiouoonstruction	JCB	2	9825730449
10	Vijayconstruction	Dumper	17	9020730449
11	Dharticonstruction	JCB	1	9879608377
11	Dilaiticonstruction	Dumper	14	9079000377
12	Krishnaconstruction	JCB	1	9825225692
14	KIISIIIacolisti uctioli	Dumper	16	9020220092
13	Prabhatconstruction	JCB	2	9825083375
13	Fraditateonstruction	Dumper	13	9020000070

Annexure-12 Infrastructure in the district (Public and Private) District Fire Station Numbers

	District Fire State		
Sr.No.	District Fire Station	Phone No.	Fax
1	Fire Station Bhuj Municipality	02832-247030	224404
1	The Station Bhuj Municipanty	99254 28576	224404
2	Fire StationMandavi Municipality	02834-224910	224910
3	Fire Station Bhachau	02837-224028	224028
4	Fire Station Gandhidham	02836-226573	233288
5	Fire Station Rapar	02830-220011	220011
6	Fire Station Anjar	02836-242544	240325
			242909
7	Fire Station Kandal Port, Kandla	02836-270176	02836 270176
8	Fire Station Control Room	02838-289440	289200
	Adani Port Mundra		
9	Fire Station IFFCO Kandla	02836-270352	02836 270642
		99790 26415	
10	Fire Station F.O.C.T. Kandla	02836-	270814
		270987/270178	
		89800 18340	
11	Fire Station Control Room	02837-293009	-
	GAIL(India) Lakadia(Bhachau)	72111 03012	

Annexure-13

SR NO	TALUKA	OFFICE	NUMBER OF
			BUS
1	BHUJ	02832-220002	93
2	MANDVI	02834-223004	66
3	MUNDRA	02838-224200	49
4	ANJAR	02836-242692	49
5	BHACHAU	02837-224049	32
6	RAPAR	02830-220002	41
7	NALIYA	02831-222119	41
8	NAKHATRANA	02835-222129	46
9	VOLVO HUB	02832 220002	43
	ΤΟΤΑ	460	

Gujarat State Road Transportation Nigam Limited Number of Bus

Annexure-14

Storage Infrastructure of Supply Department of Kutch District

Sr. No.	Name of Taluka	No. of Nigam's Storage	Capacity in M.tonns	Contact Number
1	Bhuj	4	3000	94286 83937
2	Mandvi	2	2500	94280 33015
3	Mundra	3	1500	73596 84701
4	Anjar	3	2000	99091 20745
5	Gandhidham	1	2000	99091 20745
6	Bhachau	3	1500	73590 01969
7	Rapar	4	2200	96387 34171
8	Nakhatrana	2	2500	78746 56577
9	Naliya	2	2500	70169 42479
10	Dayapar	2	1200	78746 00600
11	Khavda	2	1200	98251 88609
	Total	28	22100	

Sr.	lock	정 이 Name of PHC	Landli	Landline No.	
	B		STD Code	Landline	Mobile
1		BHIMASAR-C		275254	99240 0263
2	ar	CHANDRANI		-	81418 26689
3		KHEDOI		285437	99099 49328
4	Anjar	MATHAK	02836	-	70167 68677
5	~	MEGHPAR B		-	957500 7286
6		RATANAL		-	99099 49361
7		SANGHAD		02836	75750 08017
8		BHADAI MOTI		276662	94292 51337
9		DARASADI		244146	99241 55861
10		GODHARA		247449	99985 47696
11	idvi	GUNDIYARI	02834	283311	95743 27045
12	Mandvi	KODAY		-	99099 49343
13		LAYAJAMOTA		-	96163 41811
14		NANA AASAMBIYA		-	97124 26808
15		TALAVANA		-	96648 60564
16		ADHOI	02837	273960	99099 49325
17		AMARDI		284410	-
18	lau	DHORAVIRA		286806	-
19	Bhachau	JUNA KATARIYA		274477	97122 09353
20	Bh	JUNGI		277402	87805 56328
21		MANAFARA		-	-
22		SAMAKHIYARI		-	87584 61495
23		ADESAR		287541	91574 11298
24		BALASAR		284457	-
25		BELA		285303	82000 63068
26	5	BHIMASAR(B)		288376	93272 30425
27	Rapar	CHITROD	02830	285341	99099 49321
28	2	FATEHGADH		281336	63518 42882
29		GAGODAR		-	70462 48073
30		GEDI		-	95371 70400
31		SUVAI		-	99099 49357
32		BHIRANDIYARA	02832	273206	70964 64373
33	ij	DAHISARA	02803	284275	97267 43983
34	Bhuj	DESHALPAR-V	02832	275307	97264 34779
35		DHANETI	02032	271234	95122 70021

Annexure-15 PHC and CHC Facility and Infrastructure of Kutch District

36		GOREVALI		271234	99099 49330
37		KERA		-	99099 49334
38		KODKI		_	99099 49362
39		KUKMA		_	75730 08057
40		MADHAPAR			99099 49362
41		DINARA		_	82000 57108
42		SUKHPAR			85119 85157
43		KIDANA			94087 52630
44	Gandhidham	MITHI ROHAR			94091 54206
45		JAKHAU		289229	-
46	_	KOTHARA		272240	94290 77528
47	Abadasa	MOTHALA	00021	282266	93755 51158
48	bac	TERA	02831	282266	-
49	A	VAYOR		-	97264 29250
50		DUMARA		-	-
51		BARANDA		252225	91060 97384
52	.	GHADULI	02839	287421	95373 38228
53	Lakhapat	MATANA MADH		-	63559 16330
54		NARAYAN SAROVAR		256150	73835 93096
55		BHADRESHWAR		240017	99099 49379
56		NANA KAPAYA		-	70160 30680
57		KANDAGARA MOTA		-	-
58	Mundra	RATADIYA	02838	-	89806 67861
59		TUMBADI NANI		-	92659 39832
60		VANKI		_	92650 68288
61		ZARPARA			97264 34634
62		DESHALPAR-G		279238	93134 17278
63	na	MANGVANA		274464	-
64	Nakhatrana	NETRA	02025	277750	7874669740
65	kha	NIRONA	02835	283342	95748 48404
66	Na	VITHON		294046	-
67		RAVAPAR		-	90162 29254

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Sr NO	СНС	Name	Mobile No	Email ID
1	Naliya	Dr. D.D. Dulera(I/C)	7567876194	chcnaliya.health.kutch@gmail.com
2	Dudhai	Dr.Riktaben R. Virda	7990728298	chcdudhai.health.kutch@gmail.com
3	Bhachau	Dr. K. G. Kurmi (I/C)	9427234231	chcbhachau.health.kutch@gmail.com
4	Janan	Dr.Narayan Singh (I/C)	9909949395	chcjanan.health.kutch@gmail.com
5	Lakadiya	Dr. Sujit Kumar (I/C)	7567876191	chclakadia.health.kutch@gmail.com
6	Bharapar	Dr. Anila Goswami (I/C)	7567876187	chcbharapar.health.kutch@gmail.com
7	Dhori	DR Dinesh dharajiya(I/C)	9157340740	chcdhori.health.kutch@gmail/com
8	Khavada	DR.RAJESH.J.VARMA.(I/C)	7567876190	chckhavada.health.kutch@gmail.com
9	Dayapar	Dr. R. O. Lodhra I/C	9727450750	chcdayapar.health.kutch1@gmail.com
10	Gadhsisa	Dr. Madanji Prasad (I/C)	9998351098	chcgadhasisa.health.kutch@gmail.com
11	Moti Bhujpur	Dr. M.L.Fafal(I/C)	9978864388	chcbhujpur.health.Kutch01@gmail.com
12	Mundra	Dr. M.L.Fafal(I/C)	9978864388	chcmundra.health.kutch@gmail.com
13	Mangvana	Dr.Jagdish K. Gamit (I/C)	8758199288	chcmangwana.health.kutch@gmail.com
14	Nakhatrana	Dr Harish Vasetian	9023859676	chcnakhatrana.health.kutch@gmail.com
15	Palasava	Dr. Motilal Roy (I/C)	9909949311	chcpalasava.health.kutch@gmail.com
16	Rapar	Dr. Motilal Roy (I/C)	7567876191	chcrapar.health.kutch@gmail.com

Contact Detail of Community Health Center and Hospital

Contact Detail of Taluka Health Officer(THO)

<u>Sr.No</u>	Taluka Name	Name	CUG Numer	E-mail Id
1	Abdasa	Dr. M.K. Sinha	9909949349	thoabdasa5.health.kutch@gmail.com
2	Anjar	Dr.R.A.Anjaria	9909949313	thoanjar.health.kutch@gmail.com
3	Bhachau	Dr.Narayan Singh	9909949395	thobhachau.health.kutch@gmail.com
4	Bhuj	Dr. KeshavKumar	9909949314	thobhuj1.health.kutch@gmail.com
5	Gandhidham	Dr. D S Sutriya	9409038095	thogandhidhamhealth.kutch@gmail.com
6	Lakhpat	Dr A K Prasad	9909949316	thonakhatrana4.health.kutch@gmail.com
7	Mandvi	Dr K.P.Paswan	9909949315	thomandvi1.health.kutch@gmail.com
8	Mundra	Dr. Yogendra Prasad Mahto	8200805977	thomundra.health.Kutch@gmail.com
9	Nakhtrana	Dr A K Prasad	9909949316	thonakhatrana4.health.kutch@gmail.com
10	Rapar	Dr.Motilal Ray	9909949311	thorapar1.health.kutch@gmail.com

Annexure-16

Sr. No	Name	Mobile No.	Designation
1	Bhangi sanjay	9586650895	Public Volunteers
2	Bhatti Jay		Helper
3	Buchiya Mahesh		Helper
4	Charan valji	9909728581	Public Volunteers
5	Chauhan K. Dilipbhai	9711417961	Fireman
6	Chauhan Kalpeshkumar Dilip	9725337803	Public Volunteers
7	Chauhan Vijaysingh Ranjitsingh	9328043401	Public Volunteers
8	Damor raman	9099189395	Public Volunteers
9	Dodiya kanji	9979915779	Public Volunteers
10	Gadhavi kishorbhai	9979051950	Public Volunteers
11	Gohil pratap	9274246214	Public Volunteers
12	Joshi Jitesh Kishorchandra	9879028330	Public Volunteers
13	Joshi Jiteshbhai	9879028330	Fireman
14	Kanojiya Sandip Kishorbhai	9016727074	Public Volunteers
15	Kumar Praveen Harpalsingh	9712347363	Public Volunteers
16	Locha Narendra N		Helper
17	Maheshwary Prajesh M.	9924499720	Public Volunteers
18	Maheta Bharatbhai	9727326096	Public Volunteers
19	Makani madhusudan	9427167405	Public Volunteers
20	Makani navian	9974767641	Public Volunteers
21	Makvana Sunilbhai	9979252664	Fireman
22	Makwana Pratik Dilipbhai	9687626984	Public Volunteers
23	Maru Anilbhai	9978246682	Fire officer
24	Meriya jemalbhai	9099062594	Public Volunteers
25	Mkani bhavesh	9974999254	Public Volunteers
26	Mori Dharmesh Raisinhbhai	9376715907	Public Volunteers
27	Parmar Jigneshkumar Amrutlal	9429006841	Public Volunteers
28	Parmar Punit Dipakbhai	9428818627	Public Volunteers
29	Parmar Sachinbhai	99254 28576	Fireman
30	Patel Dhavalkumar Jayantilal	9726470015	Public Volunteers
31	Patel Hardikkumar Amrutlal	9033892445	Public Volunteers
32	Rajgor Mahesh	9726680688	Public Volunteers
33	Rajgor Maheshkumar Shantilal	9726680688	Public Volunteers
34	Rathod manubhai		Public Volunteers

List of Participants in Special Flood Rescue training of Kutch District

Annexure-17

List of Participants of Urban Search and Rescue Training of Kutch District

Urban Search and Rescue Training-2

Date: - 28/08/2012 To 02/09/2012

Venue: - FAES, Jamnagar

Sr.	Name	Municipality/	District	Mobile No.
No		Corporation		
1	Paragbhai K.Jethi	Bhuj	Kutch	9824886919
2	Pratik B.Makwana	Bhuj	Kutch	9687626984
3	Sunil J.Makwana	Bhuj	Kutch	9979252664
4	Dilip R.Chauhan	Bhuj	Kutch	9714117961
5	Jitesh K.Joshi	Bhuj	Kutch	9879028330
6	Sachin B.Parmar	Bhuj	Kutch	9925428576
7	Girish S.Dafda	Bhachau	Kutch	9909724619
8	Manubhai R.Rathod	Bhachau	Kutch	8758910433
9	Jemalbhai L.Meriya	Rapar	Kutch	9099062594
10	Mansukhbhai k.Meriya	Rapar	Kutch	9537743804
11	Mohanbhai K.Koli	Rapar	Kutch	9586440190
12	Kanjibhai M.Dodia	Rapar	Kutch	9979915779
13	SANJAYBHAI M.BHANGI	Rapar	Kutch	9979199960
14	Dhavalbhai M.Gohil	Mandavi	Kutch	9727738565
15	Rayshibhai U.Maheshwari	Mandavi	Kutch	9727738576
16	Samirbhai A.Gadhvi	Mandavi	Kutch	9737373772
17	Vijaybhai H.Goswami	Mandavi	Kutch	9099986426
18	Sunilbhai B.Barot	Mandavi	Kutch	9727870848

Annexure-18

List of Swimmers of Kutch District

Sr. No.	Name of Taluka	Name of Swimmers	Address	Mobile No.
1		Haji Jakum Manek	Bhradeswar	95865 99910
2	Mundra	Mamad Ushman Majaliya	Bhradeswar	81414 65566
3		Taiyab Ali Vagher	Jarpara	99797 96904
4		Sali Ibrahim Vagher	Jarpara	94277 69037
5	Anjar	Asgar Ibrahim Bhatti	Vandi,Truna	81282 18292
6		Sadam Ibrahim Bhatti	Vandi,Truna	73833 69447
7	Anjar	Ibrahim Mamad Bhatti	Vandi,Truna	8128218292
8		Juma Umar Kureja	Anjar	99098 82092
9		Isha Ishak Bhatti	Anjar	88665 02386

10		Matiya Kamleshbhai(Fire)	Bhuj	99797 44646
11		Rabari Jagabhai(Fire)	Bhuj	63538 90194
12		Makwana Sunilbhai(Fire)	Bhuj	99792 52664
13		Rabari Hirjibhai(Fire)	Bhuj	99136 21116
14		Rabari Vinodbhai(Fire)	Bhuj	96648 03969
15		Zala Satyjitsinh(Fire)	Bhuj	84690 55282
16		Samjibhai Bhojabhai	Kukma	98241 12555
17	Bhuj	Vasantbhai Bhimjibhai	Madhapar	81548 52567
18	-	Dipakdan Bhagudan	Mirjapar	98799 68999
19		Hamir Dayabhai	Bhujodi	99099 31348
20		Manjibhai Umarbhai Koli	Deshalpar	99131 12897
21		Anvar S.Kumbhar	Khavda	94290 42244
22		Hanifbhai Chakibhai	Khavda	94291 24882
23		Hiralal Bhudiya	Kodki	81451 72717
24		Bhagubhai Ranabhai	Kodki	99794 22288
25		Jam Abhu Nurmama	Tragadi	Mam. Office
26	Mandvi	Husen Sidhik	Mandvi	97277 34327
27	Ivialiuvi	Santigar Ramgar	Mandvi	87589 18727
28		Ravjibhai Jakhra	Mandvi	99097 26249
29		Dhana Rava Kovadiya	Bhachau	99794 07521
30	Bhachau	Gagu Rava Kovadiya	Bhachau	98245 92781
33		Haribhai Samjibhai	Bhachau	97233 35497

Sr.	Name	Date of Birth	Village	District	Mo.No.
1	BARADIYA NIRALI	05-06-2003	Kali Talavdi	KUTCH	96874 82258
	RAJESHBHAI				
2	MOTA SEJAL RAHULBHAI	07-10-2003	MASKA	KUTCH	92287 69275
3	PANCHALI VRUNDA RAMESHBHAI	28-2-2004	KERA	KUTCH	97255 38896
4	VEKARIYA KHUSHI DINESHBHAI	18-9-2002	KERA	KUTCH	9173175319
5	VALANI NEHA ARJANBHAI	19-1-2004	BALADIYA	KUTCH	9687322896
6	RAGHWANI VRUTIXA GOPALBHAI	15-10-2003	BALADIYA	KUTCH	8200366951
7	SAMA MIRALBA UMARSANG	02-09-2001	MOTA KAPAYA	KUTCH	7433949881
8	LACHHANI BHAVIKA DHIRAJBHAI	14-7-2000	MADHAPAR	KUTCH	6359046648
9	RABARI NATHU VERSHI	10-12-2002	VYARA	KUTCH	8160750282
10	RABARI SOMA KHIMABHAI	08-09-2004	VYARA	KUTCH	9510300947
11	RABARI KAMA BUDHABHAI	06-03-2003	VYARA	KUTCH	9328574854
12	RABARI HIRA BHIMABHAI	17/11/2003	VYARA	KUTCH	9313088752
13	RABARI BHIKHABHAI MURABHAI	06-06-2003	BHARANI	KUTCH	7433939929
14	RABARI KISHORBHAI MEJARBHAI	29/9/2002	BHARANI	KUTCH	9510408154
15	RABARI RAM RAJABHAI	30/03/2004	NAKHATRANA	KUTCH	93130900493
16	RABARI KHIMJI VAGHJIBHAI	11-01-2003	NAKHATRANA	KUTCH	7435941221
17	JADEJA DEVENDRASINH MEGHRAJSINH	06-01-2001	BADHIYA	KUTCH	9328670779
18	MAHIPATSINH GANPATSINH SODHA	23/4/2002	GODHIYARM	KUTCH	9313743102
19	RABARI NILESH RANABHAI	13/10/1999	DABAN	KUTCH	9638835643
20	MITRAJSINH NATVARSINH SODHA	29/4/2004	KHAMBHAL	KUTCH	8141561949
21	JADEJA HIMAATSINH KARUBHA	06-01-2002	KHOMBHADI	KUTCH	9978439790
22	JADEJA NARENDRASINH KARSANJI	17/10/2004	TODIYA	KUTCH	6352157402
23	JADEJA LAKHUBHA PRATAPJI	22/07/2003	TODIYA	KUTCH	6354247831
24	HINGORJA AMIN UMARBHAI	01-12-2004	BALAPAR	KUTCH	6355657125
25	NARSINH RAVJIBHAI KOLI	05-11-2004	JINYAVAS	KUTCH	6355994352
26	MANISH KISHORBHAI POKAR	14/01/2001	GHADANI	KUTCH	9664691065
27	MANAV KISHORBHAI POKAR	30/7/2003	GHADANI	KUTCH	9734661039
28	VANRAJSINH BHAGUBHA JADEJA	01-12-2003	KHOBHDI	KUTCH	9510419997
29	CHANDRASINH BHANJIBHA JADEJA	11-12-2002	VAMOTI NANI	KUTCH	7984510334
30	HARSHPALSINH RUPUBHA SODHA	10-03-2002	JASAPAR	KUTCH	9638622616
31	HARI GOPALBHAI GADHVI	21/07/2001	MADHAPAR	KUTCH	7567536965

Annexure-19 List of Aapada Mitra-Kutch District-2024

1					
32	JATIN DILIPBHAI JOSHI	11-11-2002	MUNDRA	KUTCH	8799399832
33	JADEJA NARENDRASINH DILIPSINH	31/03/2003	PATRI	KUTCH	7862087957
34	MANEK ASHARIYA GADHAVI	06-01-2002	MOTA BHADIYA	KUTCH	6355176099
35	PRAVINSINH KHANJI SODHA	23/07/2004	SUDDHROMOT I	KUTCH	9727840191
36	DHRUV HARESHBHAI DHOLU	12-07-2002	KOTADA	KUTCH	9265017189
37	RAVIRAJSINGH HEMENDRASINGH SOLANKI	24/11/2004	BHUJ	KUTCH	7069277529
38	MAYUR RAMESHBHAI MAHESHWARI	19/4/2005	KARAGHOGH A	KUTCH	8758228906
39	KISHAN SAMJIBHAI VARSANI	10-07-2004	MANKUVA	KUTCH	8866165434
40	HARKESH RAMKUMAR LAMBA	01-01-2004	SAMAGOGA	KUTCH	7359578564
41	BHAVESH MAHAVIR GALANGA	22/7/2002	MADHAPAR	KUTCH	8758014172
42	HARDEVSINH GEMARSINH SODHA	30/10/2002	LUNI	KUTCH	8760203865
43	RUTVIKSINH JIVANJI JADEJA	18/7/2003	ADIPUR	KUTCH	9328312281
44	YASHPALSINH PRUTHVIRAJSINH JADEJA	30/08/2001	ADIPUR	KUTCH	6351003352
45	GARVA KAJAL SANJAYBHAI	01-06-2004	LUDVA	KUTCH	94285 87584
46	GARVA DIPA HIMMATLAL	25/11/2001	MADHAPAR	KUTCH	63545 48531
47	MAHESHWARI HETAL ASHOKBHAI	26/1/2003	LUDVA	KUTCH	94284 81961
48	MAHESHWARI NEHA SAMJIBHAI	03-12-2004	BIDADA	KUTCH	97270 44269
49	SODHAM SHIVANI JIVRAJBHAI	07-10-2003	BHUJ	KUTCH	88491 64098
50	GARVA TRUPTI RAVJIBHAI	14/5/2003	BALADIYA	KUTCH	90998 28932
51	GARVA JAYSHREE CHHOTALAL	03-11-2004	BALADIYA	KUTCH	93162 08761
52	AANCHAL CHAND	19/12/2001	BIRIYA	KUTCH	97244 09132
53	KOLI SHOBHANA RAVJIBHAI	16/11/2002	BHARASAR	KUTCH	84695 16051
54	RATHOD DIVYA AMRUTLAL	23/06/2004	SOLADI	KUTCH	93168 39202
55	JHA NISHAKUMARI RAMBHAROSH	09-06-2002	BHUJ CITY	KUTCH	87580 74177
56	PARMAR NISHA PRABHUJI	25/11/2003	BHUJ CITY	KUTCH	95379 58827
57	BARDIYA DIVYA VIRAMBHAI	05-11-1999	LAKHOND	KUTCH	75673 19142
58	MAHETA SAKSHI BIPINBHAI	05-04-2004	MADHAPAR	KUTCH	97257 16659
59	HIRANI KHUSHBU RATILALBHAI	14/5/2003	BALADIYA	KUTCH	93273 19859
60	THAKKAR SHIVANI JAGDHISHBHAI	18/11/1999	MADHAPAR	KUTCH	91041 87870
61	CHAVDA HIRAL SAMATBHAI	07-10-2002	MADHAPAR	KUTCH	63553 78550
62	MEPAR HIMANI KIRITBHAI	22/6/2004	BHUJ CITY	KUTCH	88492 68743
63	PARMAR SHILPA LAKHMANBHAI	25/11/2003	MATHAL	KUTCH	91733 90593
64	DANGAR DEVANGI SHAMBHUBHAI	06-01-2001	MATHAK	KUTCH	78740 58543
65	MAHESHWARI BHOOMI DINESHBHAI	21/5/2000	BHUJ CITY	KUTCH	75673 14346

66	MAHESHWARI MAHER JETHALAL	03-05-2005	UKHEDA	KUTCH	96647 30877
67	GORDIYA MAYA GOVINDBHAI	25/03/2005	NETRA	KUTCH	72028 86891
68	MAHESHWARI POONAM PARESHBHAI	21/11/2003	MUNDRA	KUTCH	97124 37467
69	TRIPATHI DHRUV RUPESHBHAI	19/5/2003	MADHAPAR	KUTCH	79844 81170
70	AGRAVAT CHIRAG BHAVESHBHAI	03-06-2003	MADHAPAR	KUTCH	75677 17545
71	MOTA JEET JAYANTIBHAI	20/05/2003	MASKA	KUTCH	73594 97734
72	ROSHIYA ROMAN ASHOKBHAI	29/3/2005	KODAY	KUTCH	81608 27128
73	CHAD NITESH NARSINH	04-09-2003	SUMARASAR	KUTCH	94997 07727
74	CHAD SANDIP HIRABHAI	30/7/2003	SAMARASAR	KUTCH	83204 04740
75	SOLANKI MANISH BHIKHALAL	18/11/1992	ADIPUR	KUTCH	97235 35628
76	BHAGAT YASH PRAVINBHAI	13/03/2004	GODHRA	KUTCH	81418 64469
77	MARU DEV NAVINBHAI	09-12-2003	MANDVI	KUTCH	98986 46764
78	KANANI SHYAM KALYANBHAI	31/3/2003	ZARAPARA	KUTCH	70434 80994
79	GARVA MOHAN PRAVINBHAI	11-09-2001	BHADLI	KUTCH	97251 90330
80	GADHAVI HARDIK MURJIBHAI	31/7/2003	MOTI BHUJPAR	KUTCH	75739 16391
81	JAT ARIF HUSENBHAI	21/7/2004	NARANPAR	KUTCH	85111 54043
82	JADEJA HARSHDEEPSINH VIRBHADRASINH	01-10-2004	MAU MOTI	KUTCH	96647 19750
83	GUNSAI DEVENDRAGIRI MAHESHGIRI	19/1/2003	MAU MOTI	KUTCH	95378 99676
84	MAHESHWARI AMAN JAYANTILAL	25/02/2004	MOTI MAU	KUTCH	89806 98264
85	LOHAR DAYAN AJIJBHAI	17/02/2004	BHIJ CITY	KUTCH	99043 20300
86	KATARIYA CHETAN RATILAL	04-12-2002	NAGOR	KUTCH	99135 12496
87	AHIR TARUN MANUBHAI	06-05-2001	NAGOR	KUTCH	95125 76213
88	ODHEJA ZAID ABDULRASHID	02-04-1999	KODKI	KUTCH	63553 32321
89	BATTA MEHUL JESHABHAI	13/7/2002	KOTAY	KUTCH	76002 76165
90	THACKER BRUHAD PARESHBHAI	14/7/2004	BHUJ CITY	KUTCH	84693 03909
91	SUMRA NAHIM ANWARBHAI	22/8/2003	BHUJ CITY	KUTCH	78749 11237
92	SHREEMALI PRINCE SURESHBHAI	11-09-2004	DANTIWADA	KUTCH	99135 22013
93	JADEJA JUVANSINH HIRAJI	15/8/2000	RAVAPAR	KUTCH	97274 64277
94	DHOLU NIYATI MANSUKHBHAI	21/8/2002	KOTDA UGAMNA	KUTCH	90235 14873
95	MAHESHWARI SEEMA BABUBHAI	24/3/2001	BHUJ CITY	KUTCH	82009 24289
96	PARMAR KRUPA HARILAL	22/1/2005	NANA ANGIYA	KUTCH	63599 63712
97	PARMAR VIDHI ARVINDBHAI	22/4/2004	BHACHAU	KUTCH	88666 11951
98	VAGHELA DIVYA RAJESHBHAI	03-06-2003	RAMPAR(vekra)	KUTCH	94093 56464
99	KHALIFA ANJUMAN DAUD	10-04-2003	MAU MOTI	KUTCH	74339 83721
100	BHAGAT JAGDISH LALDEVBHAI	01-01-1998	VANKI	KUTCH	96649 11249

101	CHAUHAN KARAN RAJESHBHAI	06-11-2002	NAGOR	KUTCH	63545 48200
102	DAFDA KISHAN RAMESHBHAI	29/5/1998	MIRZAPAR	KUTCH	99258 83997
103	DAHIMA SWASTIK BABULAL	05-06-2002	MADHAPAR	KUTCH	9023572587
104	DHARSENDA DIVYESH KACHARABHAI	06-04-1994	ANIDA	KUTCH	9998373670
105	FAFAL RAHUL DEVJIBHAI	08-06-2000	NARANPAR RAVRI	KUTCH	7265851836
106	FULIYA ASHOK DARMENDRABHAI	27/03/2001	BIDADA	KUTCH	7201832640
107	GAGAL SAVAN VALJIBHAI	17/1/2004	KOTAY	KUTCH	6356627321
108	GAJJAR NIRVIT PARESHBHAI	21/7/2002	BHUJ CITY	KUTCH	6359339149
109	GORASIYA PRAGNESH BALDEVBHAI	07-03-2003	MANKUVA	KUTCH	6359271398
110	GOSWAMI DEV ASHOKGIRI	25/3/2002	BHUJ CITY	KUTCH	7567410841
111	CHARAN SHYAM ISHWERBHAI	26/4/2003	RAYAN NANI	KUTCH	9537752580
112	JADEJA BHARATSINH DEVUBHA	02-01-2004	MAU NANI	KUTCH	9316267199
113	JADEJA BRIJRAJSINH DIGVIJAYSINH	02-02-2001	BHUJ CITY	KUTCH	9099065791
114	KHANT DARSHAN DINESHBHAI	19/3/1996	JAMJODHPUR	KUTCH	7405080988
115	JADEJA JAYPALSINH KESHUBHA	31/5/2002	BHUJ CITY	KUTCH	6354320151
116	JADEJA KULDIPSINH SHIVUBHA	24/11/2002	VEKRA	KUTCH	9537379563
117	JADEJA SURYAJEETSINH GAJENDRASINH	13/9/2000	BHUJ CITY	KUTCH	9979407755
118	PANDYA HARSH DIPAKKUMAR	10-02-2002	KERA	KUTCH	9724004324
119	PARMAR HIMANSHU MANILAL	20/12/2000	MIRZAPAR	KUTCH	9265354497
120	PRAJAPATI DHRUVIL SHAILESHBHAI	14/9/2002	GATLODIYA	KUTCH	6355256977
121	RABARI CHAITANYA MAMUBHAI	20/1/2002	MADHAPAR	KUTCH	9875216281
122	RAJPUT BHUMITSINGH SHAMBHUNATHSINGH	05-05-1999	KANDOLPADA	KUTCH	7874552629
123	SANJOT DINESH AMICHANDBHAI	04-04-1999	BHUJODI	KUTCH	7574063431
124	LILA CHETAN BATUKBHAI	23/1/1999	THEPADA ZAPA	KUTCH	6352796979
125	ZALA DHRUVRAJSINH JAYENDRASINH	23/4/2000	BHUJ CITY	KUTCH	7874552629
126	GADHAVI PARTH MAHESHDAN	18/1/1998	MORBI CITY	KUTCH	8140118198
127	PARMAR GIRISH BAUBHAI	06-01-1996	PRAGPAR	KUTCH	9978898655
128	SOLANKI JAYESH JAGMALBHAI	09-09-2000	BAMNASA GHED	KUTCH	7201942843
129	SHIYANI VIPUL BHANJI	23/2/1999	MOKAL	KUTCH	9624859848
130	GOYAL KRISHNA RAVINBHAI	23/5/2004	FACHARIYA	KUTCH	7861845576

131 GANGAJIBHAI 20/02/004 NETRA KUTCH 7016191855 132 CHAVDA RADHA RAMABHAI 01-08-2004 VAGHURA KUTCH 9313464387 133 CHAVDA SHITAL 28/62004 PATRI KUTCH 9624893643 134 SOTA SAIMA ABDULGANI 26/7/2003 BHUICITY KUTCH 846930053 135 RAJISHBHAI 23/11/2002 CHANDRANI KUTCH 9727099553 136 KHATARIYA SUJAL 11-02-2003 AMBAPAR KUTCH 9925661079 138 RAMESHBHAI 16/12/2003 AMBAPAR KUTCH 9925661079 138 MAHESHWARI IVA 23/7/2003 NANAASAMBI KUTCH 6352289560 139 AASHANI KAIAL JADAVI 19/9/2003 BHARAPAR KUTCH 9313663347 140 JARU HETAL NARANBHAI 10-03/2001 KIDANA KUTCH 9313663347 142 VAGHELA AASHA 18/10/2003 BHUJ CITY KUTCH 9426651207 144 CHOPDA TULSI 28/12/2002 <t< th=""><th>1</th><th></th><th>I</th><th>1</th><th>i</th><th>1</th></t<>	1		I	1	i	1
132 CHAVDA RADHA RAMABHAI 01-08-2004 VAGHURA KUTCH 9313464387 133 CHAVDA SHITAL AASHABHAI 28/6/2004 PATRI KUTCH 9624893643 134 SOTA SAIMA ABDULGANI 28/6/2003 BHUJ CITY KUTCH 9624893643 135 KHUNGLA ROSHNI 23/11/2002 CHANDRANI KUTCH 977099553 136 RAMESHBHAI 11-02-2003 AMBAPAR KUTCH 9727099553 137 KHATARIYA SHANTI 16/12/2003 AMBAPAR KUTCH 9925661079 138 MAHESHWARI IVA 23/7/2003 BHARAPAR KUTCH 8320014580 140 JARU HETAL NARANBHAI 10/9/2003 BHARAPAR KUTCH 931366347 142 PRAVINBHAI 18/10/2003 BHU CITY KUTCH 91366347 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 91366347 144 RATANSHI 13/6/2003 BIDADA KUTCH 9106737062 144 CHADDIARY NIRALI 29/2/2004 <t< td=""><td>131</td><td>MEGHVAL JINAL</td><td>26/6/2004</td><td>NETRA</td><td>KUTCH</td><td>7016191655</td></t<>	131	MEGHVAL JINAL	26/6/2004	NETRA	KUTCH	7016191655
133 CHAVDA SHITAL AASHABHAI 28/6/2004 PATRI KUTCH 9624893643 134 SOTA SAIMA ABDULGANI 26/7/2003 BHUJ CITY KUTCH 8469300583 135 KHUNGLA ROSHNI 23/11/2002 CHANDRANI KUTCH 7573875790 136 KHATARIYA SEJAL 11-02-2003 AMBAPAR KUTCH 9727099553 137 KHATARIYA SHANTI 16/12/2003 AMBAPAR KUTCH 9925661079 138 MARESHWARI IVA 23/7/2003 NANAASAMBI KUTCH 852289560 139 AASHANI KAJAL JADAVJI 19/9/2003 BHARAPAR KUTCH 8320014580 140 JARU HETAL NARANBHAI 10/03/2001 KIDANA KUTCH 9313663347 142 PRAVINBHAI 18/10/2003 BHU CITY KUTCH 942651207 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 942651207 144 CHAUHARY NIRALI 13/6/2003 BIDADA KUTCH 946651207 145 DHOLU SANSKRUTI 06-10-2004<	132		01-08-2004	VAGHURA	KUTCH	9313464387
135 AASHABHAI 28/02/004 PATRI KUTCH 902/4893643 134 SOTA SAIMA ABDULGANI 26/7/2003 BHUJ CITY KUTCH 8469300583 135 KHUNGLA ROSHNI 23/11/2002 CHANDRANI KUTCH 7573875790 136 RAMESHBHAI 11-02-2003 AMBAPAR KUTCH 9727099553 137 KHATARIYA SEJAL 11-02-2003 AMBAPAR KUTCH 9925661079 138 MAHESHWARI TVA 23/7/2003 NANAASAMBI KUTCH 6352289560 139 AASHANI KAJAL JADAVJI 19/9/2003 BHARAPAR KUTCH 8320014580 140 JARU HETAL NARANBHAI 10/03-2001 KIDANA KUTCH 9313663347 142 VAGHELA AASHA 18/10/2003 BHUJ CITY KUTCH 9913954339 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NIRALI 13/6/2003 BIDADA KUTCH 9426553702 145 DHOLU SANSKRUTI 06-10-2004						
135 KHUNGLA ROSHNI RAJESHBHAI 23/11/2002 CHANDRANI KUTCH 7573875790 136 KHATARIYA SEJAL RAMESHBHAI 11-02-2003 AMBAPAR KUTCH 9727099553 137 KHATARIYA SEJAL RAMESHBHAI 16/12/2003 AMBAPAR KUTCH 9925661079 138 MAHESHWARI IVA PREMITBHAI 23/7/2003 YA KUTCH 6352289560 139 AASHANI KAJAL JADAVJI 19/9/2003 BHARAPAR KUTCH 6352289560 140 JARU HETAL NARANBHAI 10-03-2001 KIDANA KUTCH 738367533 141 JARU KOMAL KARSHANBHAI 12/02003 VAGURA KUTCH 9313663347 142 PRAVINBHAI 18/10/2003 BHUJ CITY KUTCH 9913954339 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 9106737062 144 CHAUDHARY NIRALI 13/6/2003 BIDADA KUTCH 9106737062 145 ASHOKBHAI 06-10-2004 KANAKPUR KUTCH 8320559702 146 BHAGAT VRUTI <td>133</td> <td></td> <td>28/6/2004</td> <td>PATRI</td> <td>KUTCH</td> <td>9624893643</td>	133		28/6/2004	PATRI	KUTCH	9624893643
135 RAJESHBHAI 23/11/2002 CHANDRANI KUTCH 73/38/3/90 136 KHATARIYA SEJAL RAMESHBHAI 11-02-2003 AMBAPAR KUTCH 9727099553 137 KHATARIYA SHANTI KHIMIBHAI 16/12/2003 AMBAPAR KUTCH 9925661079 138 MAHESHWARI IVA PREMIBHAI 23/7/2003 NANAASAMBI YA KUTCH 6352289560 139 AASHAN KAJAL JADAVJI 19/9/2003 BHARAPAR KUTCH 6352289560 140 JARU HETAL NARANBHAI 10/03-2001 KIDANA KUTCH 9313663347 142 VAGHELA AASHA 18/10/2003 BHUJ CITY KUTCH 9913954339 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NIRALI 13/6/2003 BIDADA KUTCH 8799377258 145 DHOLU SANSKRUTI 06-10-2004 KANAKPUR KUTCH 8790377258 146 BHAGAT VRUTI 29/2/2004 GADHSHISHA KUTCH 8820559702 148 MEGHANI ASTHA <td>134</td> <td>SOTA SAIMA ABDULGANI</td> <td>26/7/2003</td> <td>BHUJ CITY</td> <td>KUTCH</td> <td>8469300583</td>	134	SOTA SAIMA ABDULGANI	26/7/2003	BHUJ CITY	KUTCH	8469300583
136 RAMESHBHAI 11-02-2003 AMBAPAR KUTCH 9/2/099533 137 KHATARIYA SHANTI KHMIBHAI 16/12/2003 AMBAPAR KUTCH 9925661079 138 MAHESHWARI IVA 23/7/2003 NANAASAMBI YA KUTCH 6352289560 139 AASHANI KAJAL JADAVII 19/9/2003 BHARAPAR KUTCH 6352289560 140 JARU HETAL NARANBHAI 10-03-2001 KIDANA KUTCH 7383367533 141 JARU KOMAL KARSHANBHAI 12/10/2003 BHUJ CITY KUTCH 9913954339 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NRALI 13/6/2003 BIDADA KUTCH 9106737062 144 CHAUDHARY NRALI 13/6/2003 BIDADA KUTCH 8799377258 145 DHOLU SANSKRUTI 06-10-2004 KANAKPUR KUTCH 820559702 144 BHAGAT VRUTI 29/2/2004 GADHSHISHA KUTCH 8320559702 148 MEGHANI ASTHA 08-0	135		23/11/2002	CHANDRANI	KUTCH	7573875790
137 KHIMJIBHAI 16/12/20/3 AMBAPAR KUTCH 99256610/9 138 MAHESHWARI IVA PREMIJBHAI 23/7/2003 NANAASAMBI YA KUTCH 6352289560 139 AASHANI KAJAL JADAVJI 19/9/2003 BHARAPAR KUTCH 6352289560 140 JARU HETAL NARANBHAI 10-03-2001 KIDANA KUTCH 783367533 141 JARU KOMAL KASRHANBHAI 18/10/2003 VAGURA KUTCH 991365337 142 PRAVINBHAI 18/10/2003 BHUJ CITY KUTCH 991365337 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 991365337 144 CHAUDHARY NIRALI RATANSHI 13/6/2003 BIDADA KUTCH 991377258 145 DHOLU SANSKRUTI 06-10-2004 KANAKPUR KUTCH 8799377258 146 JAGDISHBHAI 13/11/2003 RAJPAR KUTCH 9667058064 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 973798455 150 MARAND JIGNA BABUBHAI	136		11-02-2003	AMBAPAR	KUTCH	9727099553
138 PREMJIBHAI 23///2003 YA KUTCH 6352289500 139 AASHANI KAJAL JADAVJI 19/9/2003 BHARAPAR KUTCH 8320014580 140 JARU HETAL NARANBHAI 10/03-2001 KIDANA KUTCH 9313663347 141 JARU KOMAL KARSHANBHAI 18/10/2003 BHUJ CITY KUTCH 9913954339 142 VAGHELA AASHA 18/10/2003 BHUJ CITY KUTCH 9426651207 144 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NIRALI 13/6/2003 BIDADA KUTCH 9426651207 144 CHAUDHARY NIRALI 13/6/2003 BIDADA KUTCH 9426651207 145 DHOLU SANSKRUTI 06-10-2004 KANAKPUR KUTCH 8799377258 146 BHAGGAT VRUTI 29/2/2004 GADHSHISHA KUTCH 8320559702 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 8320559702 148 ASHOKBHAI 08-06-2004	137		16/12/2003	AMBAPAR	KUTCH	9925661079
140 JARU HETAL NARANBHAI 10-03-2001 KIDANA KUTCH 7383367533 141 JARU KOMAL KARSHANBHAI 25/10/2003 VAGURA KUTCH 9313663347 142 VAGHELA AASHA 18/10/2003 BHUJ CITY KUTCH 9913954339 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NIRALI 13/6/2003 BIDADA KUTCH 9106737062 145 DHOLU SANSKUTI 06-10-2004 KANAKPUR KUTCH 8799377258 146 BHAGAT VRUTI 29/2/2004 GADHSHISHA KUTCH 9664704728 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 9687058064 149 CHHABHIYA JANVI 24/11/2003 KUMBHARDI KUTCH 9737998455 150 MARAND JIGNA BABUBHAI 07-07-2005 CHANDRODA KUTCH 878004257 152 CHAVDA SHIVANI 20/9/2005 CHANDRODA KUTCH 9313597505 153 BAKUTRA NANDINI	138		23/7/2003		KUTCH	6352289560
141 JARU KOMAL KARSHANBHAI 25/10/2003 VAGURA KUTCH 9313663347 142 VAGHELA AASHA PRAVINBHAI 18/10/2003 BHUJ CITY KUTCH 9913954339 143 CHOPDA TULSI NARSINHBHAI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NIRALI RATANSHI 13/6/2003 BIDADA KUTCH 9106737062 145 DHOLU SANSKRUTI ASHOKBHAI 06-10-2004 KANAKPUR KUTCH 8799377258 146 BHAGAT VRUTI JAGDISHBHAI 29/2/2004 GADHSHISHA KUTCH 8320559702 148 BHGHANI ASTHA ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 9687058064 149 CHHABHIYA JANVI SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 8320216620 150 MARAND JIGNA BABUBHAI 07-07-2005 CHANDRODA KUTCH 8320216620 151 MARAND JIGNA BABUBHAI 15/7/2004 VAGHURA KUTCH 89313597505 152 CHAVDA SHIVANI 16/3/2004 YASHODADHA M KUTCH 9265216381	139	AASHANI KAJAL JADAVJI	19/9/2003	BHARAPAR	KUTCH	8320014580
142 VAGHELA AASHA PRAVINBHAI 18/10/2003 BHUJ CITY KUTCH 9913954339 143 CHOPDA TULSI NARSINHBHAI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NIRALI RATANSHI 13/6/2003 BIDADA KUTCH 9426651207 144 CHAUDHARY NIRALI RATANSHI 13/6/2003 BIDADA KUTCH 9106737062 145 DHOLU SANSKRUTI ASHOKBHAI 06-10-2004 KANAKPUR KUTCH 8799377258 146 BHAGAT VRUTI JAGDISHBHAI 29/2/2004 GADHSHISHA KUTCH 9664704728 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 8320559702 148 MEGHANI ASTHA ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 9687058064 149 SURESHBHAI 02/9/2005 CHANDRODA KUTCH 9737998455 150 MARAND JIGNA BABUBHAI 02/9/2005 CHANDRODA KUTCH 832016620 151 MARAND ASHMI RAVIJBHAI 16/3/2004 VAGHURA KUTCH 9313597505	140	JARU HETAL NARANBHAI	10-03-2001	KIDANA	KUTCH	7383367533
142 PRAVINBHAI 18/10/2003 BHUJ CHY KUTCH 9913954339 143 CHOPDA TULSI 28/12/2002 MANDAVI KUTCH 9426651207 144 CHAUDHARY NIRALI RATANSHI 13/6/2003 BIDADA KUTCH 9426651207 144 CHAUDHARY NIRALI RATANSHI 13/6/2003 BIDADA KUTCH 9106737062 145 DHOLU SANSKRUTI OHOLU SANSKRUTI 06-10-2004 KANAKPUR KUTCH 8799377258 146 BHAGAT VRUTI JAGDISHBHAI 29/2/2004 GADHSHISHA KUTCH 9664704728 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 8320559702 148 MEGHANI ASTHA ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 9687058064 149 CHHABHIYA JANVI SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 9737998455 150 MARAND RASHMI RAVJIBHAI 07-07-2005 CHANDRODA KUTCH 8780014257 152 CHAVDA SHIVANI 15/7/2004 VAGHURA KUTCH 9313597505 <td< td=""><td>141</td><td></td><td>25/10/2003</td><td>VAGURA</td><td>KUTCH</td><td>9313663347</td></td<>	141		25/10/2003	VAGURA	KUTCH	9313663347
143 NARSINHBHAI 28/12/2002 MANDAVI KUTCH 942663120/ 144 CHAUDHARY NIRALI RATANSHI 13/6/2003 BIDADA KUTCH 9106737062 144 CHAUDHARY NIRALI RATANSHI 06-10-2004 KANAKPUR KUTCH 9106737062 145 DHOLU SANSKRUTI ASHOKBHAI 06-10-2004 KANAKPUR KUTCH 8799377258 146 BHAGAT VRUTI JAGDISHBHAI 29/2/2004 GADHSHISHA KUTCH 9664704728 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 96687058064 148 MEGHANI ASTHA ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 9687058064 149 CHHABHIYA JANVI SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 9737998455 150 MARAND RASHNI RAVJIBHAI 20/9/2005 CHANDRODA KUTCH 8320216620 151 MARAND RASHNI RAVJIBHAI 15/7/2004 VAGHURA KUTCH 9313597505 153 BAKUTRA NANDINI BABUBHAI 16/3/2004 YASHODADHA M KUTCH 9265216381 <td>142</td> <td></td> <td>18/10/2003</td> <td>BHUJ CITY</td> <td>KUTCH</td> <td>9913954339</td>	142		18/10/2003	BHUJ CITY	KUTCH	9913954339
144RATANSHI13/6/2003BIDADAKUTCH9106/3/062145DHOLU SANSKRUTI ASHOKBHAI06-10-2004KANAKPURKUTCH8799377258146BHAGAT VRUTI JAGDISHBHAI29/2/2004GADHSHISHAKUTCH9664704728147VADIYA KRISHI KISHORBHAI13/11/2003RAJPARKUTCH8320559702148MEGHANI ASTHA ASHOKBHAI08-06-2004NANAANGIYAKUTCH9687058064149CHHABHIYA JANVI SURESHBHAI24/11/2003KUMBHARDIKUTCH9737998455150MARAND JIGNA BABUBHAI07-07-2005CHANDRODAKUTCH8320216620151MARAND RASHNI RAVJIBHAI20/9/2005CHANDRODAKUTCH8320216620152CHAVDA SHIVANI BABUBHAI15/7/2004VAGHURAKUTCH9313597505153BAKUTRA NANDINI BABUBHAI16/3/2004YASHODADHA MKUTCH9265216381154DHOLU KAVYA PRAVINBHAI26/04/2004MUNDRAKUTCH6352649595155CHAVDA RUTIKA RAMJIBHAI14/5/2004VARLIKUTCH6352788542157VADIYA KHUSHALI BARADIYA SHIVANI01-01-2003CHHASRAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH6354680717159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161WAKWANA ASHVINI<	143		28/12/2002	MANDAVI	KUTCH	9426651207
145 ASHOKBHAI 06-10-2004 KANAKPUR KUTCH 879937/258 146 BHAGAT VRUTI JAGDISHBHAI 29/2/2004 GADHSHISHA KUTCH 9664704728 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 8320559702 148 MEGHANI ASTHA ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 9687058064 149 CHHABHIYA JANVI SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 9737998455 150 MARAND JIGNA BABUBHAI 07-07-2005 CHANDRODA KUTCH 8320216620 151 MARAND RASHMI RAVJIBHAI 20/9/2005 CHANDRODA KUTCH 9313597505 152 CHAVDA SHIVANI SHAMJIBHAI 15/7/2004 VAGHURA KUTCH 9313597505 153 BAKUTRA NANDINI BABUBHAI 16/3/2004 YASHODADHA M KUTCH 9265216381 154 DHOLU KAVYA PRAVINBHAI 26/04/2004 MUNDRA KUTCH 6352649595 155 CHAVDA RUTIKA RAMJIBHAI 01-01-2003 CHHASRA KUTCH 6352788542 <t< td=""><td>144</td><td></td><td>13/6/2003</td><td>BIDADA</td><td>KUTCH</td><td>9106737062</td></t<>	144		13/6/2003	BIDADA	KUTCH	9106737062
146 JAGDISHBHAI 29/2/2004 GADHSHISHA KUTCH 9664/04/28 147 VADIYA KRISHI KISHORBHAI 13/11/2003 RAJPAR KUTCH 8320559702 148 MEGHANI ASTHA ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 9687058064 149 CHHABHIYA JANVI SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 9737998455 150 MARAND JIGNA BABUBHAI 07-07-2005 CHANDRODA KUTCH 8320216620 151 MARAND RASHMI RAVJIBHAI 20/9/2005 CHANDRODA KUTCH 8780014257 152 CHAVDA SHIVANI SHAMJIBHAI 15/7/2004 VAGHURA KUTCH 9313597505 153 BAKUTRA NANDINI BABUBHAI 16/3/2004 YASHODADHA M KUTCH 9265216381 154 DHOLU KAVYA PRAVINBHAI 26/04/2004 MUNDRA KUTCH 832027423 156 BARADIYA SHIVANI BHIMABHAI 01-01-2003 CHHASRA KUTCH 6352788542 157 VADIYA KHUSHALI 01-01-2003 CHHASRA KUTCH 9408355671	145		06-10-2004	KANAKPUR	KUTCH	8799377258
148 MEGHANI ASTHA ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 9687058064 149 CHHABHIYA JANVI SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 9737998455 150 MARAND JIGNA BABUBHAI 07-07-2005 CHANDRODA KUTCH 8320216620 151 MARAND RASHMI RAVJIBHAI 20/9/2005 CHANDRODA KUTCH 8780014257 152 CHAVDA SHIVANI 15/7/2004 VAGHURA KUTCH 9313597505 153 BAKUTRA NANDINI BABUBHAI 16/3/2004 YASHODADHA M KUTCH 9265216381 154 DHOLU KAVYA PRAVINBHAI 26/04/2004 MUNDRA KUTCH 8980277423 155 CHAVDA RUTIKA RAMJIBHAI 14/5/2004 VARLI KUTCH 6352788542 157 SURESHBHAI 01-01-2003 CHHASRA KUTCH 9909240280 158 TIWARI HARSHIDA 21/06/2004 BHUJ CITY KUTCH 9408355671 159 LODHIYA ALSABA 04-02-2004 BHUJ CITY KUTCH 6354680717 160	146		29/2/2004	GADHSHISHA	KUTCH	9664704728
148 ASHOKBHAI 08-06-2004 NANAANGIYA KUTCH 968/058064 149 CHHABHIYA JANVI SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 9737998455 150 MARAND JIGNA BABUBHAI 07-07-2005 CHANDRODA KUTCH 8320216620 151 MARAND RASHMI RAVJIBHAI 20/9/2005 CHANDRODA KUTCH 8780014257 152 CHAVDA SHIVANI SHAMJIBHAI 15/7/2004 VAGHURA KUTCH 9313597505 153 BAKUTRA NANDINI BABUBHAI 16/3/2004 YASHODADHA M KUTCH 9265216381 154 DHOLU KAVYA PRAVINBHAI 26/04/2004 MUNDRA KUTCH 6352649595 155 CHAVDA RUTIKA RAMJIBHAI 14/5/2004 VARLI KUTCH 6352788542 156 BARADIYA SHIVANI BHIMABHAI 01-01-2003 CHHASRA KUTCH 6352788542 157 VADIYA KHUSHALI BHIMABHAI 01-11-2005 SHIRVA KUTCH 9909240280 158 TIWARI HARSHIDA JAMNAPRASAD 21/06/2004 BHUJ CITY KUTCH 9408355671	147	VADIYA KRISHI KISHORBHAI	13/11/2003	RAJPAR	KUTCH	8320559702
149 SURESHBHAI 24/11/2003 KUMBHARDI KUTCH 9/3/998455 150 MARAND JIGNA BABUBHAI 07-07-2005 CHANDRODA KUTCH 8320216620 151 MARAND RASHMI RAVJIBHAI 20/9/2005 CHANDRODA KUTCH 8320216620 152 CHAVDA SHIVANI SHAMJIBHAI 20/9/2005 CHANDRODA KUTCH 9313597505 153 BAKUTRA NANDINI BABUBHAI 15/7/2004 VAGHURA KUTCH 9265216381 154 DHOLU KAVYA PRAVINBHAI 26/04/2004 MUNDRA KUTCH 6352649595 155 CHAVDA RUTIKA RAMJIBHAI 14/5/2004 VARLI KUTCH 8980277423 156 BARADIYA SHIVANI BHIMABHAI 01-01-2003 CHHASRA KUTCH 6352788542 157 VADIYA KHUSHALI BHIMABHAI 01-11-2005 SHIRVA KUTCH 9909240280 158 TIWARI HARSHIDA JAMNAPRASAD 21/06/2004 BHUJ CITY KUTCH 9408355671 159 LODHIYA ALSABA (ASAMBHAI 04-02-2004 BHUJ CITY KUTCH 6354680717	148		08-06-2004	NANAANGIYA	KUTCH	9687058064
151MARAND RASHMI RAVJIBHAI20/9/2005CHANDRODAKUTCH8780014257152CHAVDA SHIVANI SHAMJIBHAI15/7/2004VAGHURAKUTCH9313597505153BAKUTRA NANDINI BABUBHAI16/3/2004YASHODADHA MKUTCH9265216381154DHOLU KAVYA PRAVINBHAI26/04/2004MUNDRAKUTCH6352649595155CHAVDA RUTIKA RAMJIBHAI14/5/2004VARLIKUTCH6352788542156BARADIYA SHIVANI BHIMABHAI01-01-2003CHHASRAKUTCH6352788542157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	149		24/11/2003	KUMBHARDI	KUTCH	9737998455
152CHAVDA SHIVANI SHAMJIBHAI15/7/2004VAGHURAKUTCH9313597505153BAKUTRA NANDINI BABUBHAI16/3/2004YASHODADHA MKUTCH9265216381154DHOLU KAVYA PRAVINBHAI26/04/2004MUNDRAKUTCH6352649595155CHAVDA RUTIKA RAMJIBHAI14/5/2004VARLIKUTCH6352649595156BARADIYA SHIVANI BHIMABHAI01-01-2003CHHASRAKUTCH6352788542157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	150	MARAND JIGNA BABUBHAI	07-07-2005	CHANDRODA	KUTCH	8320216620
152SHAMJIBHAI15///2004VAGHURAKUTCH931359/505153BAKUTRA NANDINI BABUBHAI16/3/2004YASHODADHA MKUTCH9265216381154DHOLU KAVYA PRAVINBHAI26/04/2004MUNDRAKUTCH6352649595155CHAVDA RUTIKA RAMJIBHAI14/5/2004VARLIKUTCH6352788542156BARADIYA SHIVANI BHIMABHAI01-01-2003CHHASRAKUTCH6352788542157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	151	MARAND RASHMI RAVJIBHAI	20/9/2005	CHANDRODA	KUTCH	8780014257
153BABUBHAI16/3/2004MKUTCH9265216381154DHOLU KAVYA PRAVINBHAI26/04/2004MUNDRAKUTCH6352649595155CHAVDA RUTIKA RAMJIBHAI14/5/2004VARLIKUTCH8980277423156BARADIYA SHIVANI BHIMABHAI01-01-2003CHHASRAKUTCH6352788542157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	152		15/7/2004	VAGHURA	KUTCH	9313597505
155CHAVDA RUTIKA RAMJIBHAI14/5/2004VARLIKUTCH8980277423156BARADIYA SHIVANI BHIMABHAI01-01-2003CHHASRAKUTCH6352788542157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	153		16/3/2004		KUTCH	9265216381
156BARADIYA SHIVANI BHIMABHAI01-01-2003CHHASRAKUTCH6352788542157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	154	DHOLU KAVYA PRAVINBHAI	26/04/2004	MUNDRA	KUTCH	6352649595
156BHIMABHAI01-01-2003CHHASRAKUTCH6352/88542157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	155	CHAVDA RUTIKA RAMJIBHAI	14/5/2004	VARLI		
157VADIYA KHUSHALI SURESHBHAI01-11-2005SHIRVAKUTCH9909240280158TIWARI HARSHIDA JAMNAPRASAD21/06/2004BHUJ CITYKUTCH9408355671159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	156		01-01-2003	CHHASRA		6352788542
158JAMNAPRASAD21/06/2004BHUJ CITYKUTCH94083556/1159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	157		01-11-2005	SHIRVA	KUTCH	9909240280
159LODHIYA ALSABA KASAMBHAI04-02-2004BHUJ CITYKUTCH6354680717160CHAVDA RIVYA SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	158		21/06/2004	BHUJ CITY	KUTCH	9408355671
160SHAMBHUBHAI20/10/2003KANDERAIKUTCH8320486015161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	159		04-02-2004	BHUJ CITY	KUTCH	6354680717
161MAKWANA ASHVINI VIMALBHAI23/6/2004VARLIKUTCH7016770086	160	CHAVDA RIVYA	20/10/2003	KANDERAI	KUTCH	8320486015
	161	MAKWANA ASHVINI	23/6/2004	VARLI	KUTCH	7016770086
102 DHATH KERANA JUSADDRAL $31/0/2004$ WUNDKA KUTCH 9038490010	162	BHATTI REHANA JUSABBHAI	31/8/2004	MUNDRA	KUTCH	9638490616

1.00		21/07/2005		VUT OU	7567550077
163	CHAVDA JITISHA KANJIBHAI	21/07/2005	LAKHOND	KUTCH	7567559877
164	SAIYAD KARINA FARUKBHAI	25/1/2003	BHARAPAR	KUTCH	7016823588
165	LODHIYA KAYNAT KASAMBHAI	28/12/2000	BHUJ CITY	KUTCH	6351559800
166	RABADIYA BHAVIKA MAVJIBHAI	21/1/2004	NAGALPAR	KUTCH	6352095579
167	SOLANKI SWATI NATVARSINH	20/2/2004	NALIYA	KUTCH	9909134197
168	GOSWAMI HETVI BHARATGIRI	19/7/2004	BHUJ CITY	KUTCH	9313863570
169	MARAND SHIVANI RAMESHBHAI	05-12-2003	BHALOT	KUTCH	6351941665
170	AYAR HETAL MITHUBHAI	11-04-2003	VANG	KUTCH	9313268723
171	MAHESHWARI DIPA MOHANBHAI	20/07/2003	MANKUVA	KUTCH	7284927082
172	CHHABHIYA TRUSHA BHARATBHAI	06-11-2003	RAJPAR	KUTCH	8758354585
173	BHATTI SHIRIN RAMZANBHAI	03-08-2004	BERAJA	KUTCH	9537132417
174	MAKWANA VANDNA DEVJIBHAI	02-01-2004	BALADIYA	KUTCH	9726828014
175	BHAGAT TEJAL DHARMENDRABHAI	04-08-2004	NAKHATRANA	KUTCH	9313599024
176	GOHIL SHIVANI SHAMJIBHAI	03-08-2001	CHANDRODA	KUTCH	9265298230
177	NATHBAVA PAYAL KISHORBHAI	20/02/2003	MOTI RAYAN	KUTCH	9586222685
178	BARADIYA SHITAL DAYABHAI	05-02-2003	KALITALAVA DI	KUTCH	9825496008
179	BARADIYA TRUPTI SHAMBHUBHAI	15/7/2003	KALITALAVA DI	KUTCH	9313072164
180	DUNGARANI SAILESH AMBALAL	08-11-1992	PANANDHRO	KUTCH	9624590901
181	BRAHMAN SAVAI RAJARAM	08-10-1968	PANANDHRO	KUTCH	9726342344
182	SATHVARA VASANTKUMAR RAMJIBHAI	06-01-1977	PANANDHRO	KUTCH	9978739947
183	GAUSWAMI DUNGALGIRI ACHALGIRI	14/6/1983	PANANDHRO	KUTCH	9712747625
184	SODHA MAHIPATSINH MANSANGJI	24/3/1987	PANANDHRO	KUTCH	9687279671
185	JOSHI KALPESH KANTILAL	23/3/1994	PANANDHRO	KUTCH	9925936338
186	SATHVARA JAGDISH DANABHAI	15/8/1989	PANANDHRO	KUTCH	9978325616
187	RAVAL JAYESH SWARUPAJI	26/6/1990	PANANDHRO	KUTCH	9724728973
188	JOGI BHARAT MANGALBHAI	06-01-1991	PANANDHRO	KUTCH	9879760517
189	SATHVARA GIRISH KHIMJIBHAI	31/1/1993	PANANDHRO	KUTCH	9537171702
190	SATVARA BHAVANBHAI NARSINHBHAI	05-04-1995	PANANDHRO	KUTCH	9537957208
191	BADGA RAMJIBHAI RAJABHAI	20/2/1980	BALADIYA	KUTCH	9913301745
192	MAHESHWARI ARJANBHAI DANABHAI	07-06-1979	KERA	KUTCH	9638494123
193	JADEJA MADHUBHAVANKAJI	10-08-1984	JADAY	KUTCH	8980790625

194	GARODA HIRALAL PACHANBHAI	18/4/86	NAKHATRANA	KUTCH	9099267490
195	KAPDI MAYURKUMAR RAMJIBHAI	25/7/1990	VIRANI MOTI	KUTCH	9726829500
196	CHAUHAN BHARATSINH VIJAYRAJ	27/8/1993	NAKHATRANA	KUTCH	8141009838
197	VANKAR RATANSHI MALABHAI	06-01-1983	NAKHATRANA	KUTCH	9913953250
198	SIJU RASIKLAL KARSHANBHAI	22/7/1999	NAKHATRANA	KUTCH	6353790338
199	JOGI KHIMJI HIRJIBHAI	02-06-1997	NAKHATRANA	KUTCH	7043080833
200	RABARI RAMESH SOMABHAI	22/7/1999	BERU	KUTCH	6351731106
201	BADIYA ARVIND NARANBHAI	06-01-1983	KOTDA JADODAR	KUTCH	9662337987
202	TOMAR VIVEK ANILBHAI	18/7/2001	KUKMA	KUTCH	7056727139
203	KOLI NAVIN LALJIBHAI	25/9/1999	LAKHOD	KUTCH	9586992698
204	RABARI BHARAT LAXMANBHAI	10-12-1999	KUKMA	KUTCH	6355636907
205	NAGJIBHAI RUPABHAI DANGAR	01-01-1981	BHACHAU	KUTCH	81410 10128
206	PREMJIBHAI HARIJAN	01-01-1969	KUMBHARIYA	KUTCH	73136 93757
207	DILIPBHAI KANJIBHAI	07-07-1997	RAPAR	KUTCH	97267 14297
208	MAMADBHAI HAJIBHAI	23-08-1986	BHACHAU	KUTCH	99795 50642
209	DINESHBHAI KANJIBHAI JADAV	06-05-1985	BHACHAU	KUTCH	98252 08611
210	BHARATBHAI DAMABHAI PASOD	12-03-1996	JADAS	KUTCH	84795 87521
211	AAMBHAI VELJIBHAI PARMAR	02-01-1984	VANDHIYA	KUTCH	96389 47575
212	ARIF RAHIMBHAI	04-01-1996	VANDHIYA	KUTCH	99135 82186
213	RAMESHBHAI BABUBHAI	25-11-1992	JANGI	KUTCH	81604 30930
214	DHAWAL RATILAL	11-03-1988	GANDHIDHAM	KUTCH	95749 86062
215	KOLI PRAVINBHAU	01-01-1991	RAPAR	KUTCH	88497 23917
216	ISHAWAR PARMAR	01-08-1978	RAPAR	KUTCH	63529 17970
217	AKBAR RAJA	01-01-1984	RAPAR	KUTCH	95742 29269
218	MATIYA KAMLESH DEVJIBHAI	30-10-1996	BHUJ	KUTCH	99797 44646
219	MEGHVAL NITIN	25-08-1997	PRAJAU	KUTCH	95583 40851
220	PATLIYA GOVIND	27-07-1997	MOTI BHUPAR	KUTCH	95587 11569
221	NAVINBHAI RANCHHODBHAI	0000-00-00	RATNAL	KUTCH	97273 36305
222	NAVGHAN KARMANBHAI	25-08-1994	RATNAL	KUTCH	97252 47675
223	DANGI LALSING	23-12-1996	ANJAR	KUTCH	77790 90570
224	HARESHBHAI PATEL	20-05-1999	ADIPUR	KUTCH	97127 63634
225	CHOUHAN BHAVIK	08-07-1998	KUKMA	KUTCH	85118 69988
226	MAHESHWARI RAVI KHIMJIBHAI	08-03-1996	LUNANG	KUTCH	99046 86761
227	PRAJAPTI NIKUL	15-06-2000	GANDHIDHAM	KUTCH	96384 33872
228	GORKHA KRISHNA	12-05-1998	KUMBHADI	KUTCH	97732 97418
229	MAHESHWARI RAHUL	03-07-1998	TARA MANJAL	KUTCH	99130 57693
230	ISHWAR MAHESHWARI	22-08-1997	NAKHTRANA	KUTCH	75676 11497
231	HARESH RAVJIBHAI	06-06-1997	NANA SAMBIA	KUTCH	90169 75791
232	CHAUDHARY DEVABHAIRAVABHAI	01-07-1998	SANAVA	KUTCH	87589 37537

		24.00.1000		RUTCH	00706 20770
233	MAHESHWARI HARESH	24-09-1998	BHARAPAR	KUTCH	99796 38770
234	KHALIFA RAMZANLI	16-01-1998	GAJOD	KUTCH	81600 94716
235	VISHAL MAKWANA	16-08-1998	RATNAL	KUTCH	95376 25005
236	PAYAL MEGHANI	21-05-1999	ADIPUR	KUTCH	87581 48346
237	SANJAYKUMAR KAMARIYA	16-10-1994	BHACHAU	KUTCH	89052 02272
238	RAVI RANJAN	27-06-1997	SAMKHIYALI	KUTCH	95342 80190
239	ANILKUMAR	05-07-1999	MUNDRA	KUTCH	97828 03148
240	SAMASULTAN ABDULSATTAR	16-02-1996	BHUJ	KUTCH	70962 94493
241	JADEJA CHHATASANG	27-09-1984	MADHAPAR	KUTCH	94290 11068
242	RAM KISHOR RAMESHWAR VERMA	10-05-1972	BHUJ	KUTCH	97279 97245
243	ROHITSING	19-04-2000	SAMKHIYALI	KUTCH	73748 16396
244	RAJESHKUMAR BALKRISHNA	15-06-1968	BHUJ CITY	KUTCH	94262 27283
245	MOHAN KALABHAI	10-10-1988	KUKMA	KUTCH	81287 45772
246	PRAVEEN KUMAR	14-11-1987	MUNDRA	KUTCH	74128 88879
247	NITESH KUMAR	20-02-1995	BHUJ CITY	KUTCH	83402 56778
248	RAHUL CHIRANILAL TANWAR	16-12-1996	BHUJ CITY	KUTCH	90982 91914
249	HITESH KUMAR SHUKLA	30-09-1994	SAMKHIYALI	KUTCH	97270 78102
250	VISHAL PRABHAKAR	03-09-1999	SAMKHIYALI	KUTCH	96658 23510
251	WASSI AHMAD	10-10-1995	SAMKHIYALI	KUTCH	91610 84638
252	SANDEEP KUMAR	10-07-1996	SAMKHIYALI	KUTCH	97240 58093
253	KARAN VAISNAV	27-02-2002	BHACHAU	KUTCH	93133 80621
254	ASHOKKUMAR YADAV	20-12-1996	BHACHAU	KUTCH	74259 33930
255	KUNDAN RAGHVJIBHAI	04-01-1997	BHUJ CITY	KUTCH	83200 60199
256	PARAMAR DENISH KARSHANBHAI	03-04-1993	ANJAR	KUTCH	90990 63589
257	YOGENDRA SINGH	04-07-1989	BHUJ CITY	KUTCH	77421 69132
258	CHAUHAN SHIVAMBHAI	01-05-2000	BHACHAU	KUTCH	94845 64888
259	DINESHKUMAR BHAMBHOR	03-03-1984	BHUJ CITY	KUTCH	99094 87226
260	RAMI JATINKUMAR HARAGISHBHAI	10-05-1977	ANJAR	KUTCH	98251 74163
261	PRAJAPATI VISHALDINESHKUMAR	18-01-2000	BHUJ CITY	KUTCH	90818 81687
262	KAMALESHK NINAMA	15-12-1982	BHUJ CITY	KUTCH	80000 08108
263	BAKSHRAM B CHAUDHARY	11-05-1986	SAMKHIYALI	KUTCH	96384 42192
264	AHIR JIGANEASH RAMESHBHAI	25-08-2001	MUNDRA	KUTCH	99099 81622
265	VAD DEVU	23-02-2000	BHUJ CITY	KUTCH	96648 70324
265	GARANIYA HITESH	06-11-1993	ADIPUR	KUTCH	91069 06151
267	PATEL HITESH	16-05-2002	BHUJ CITY	KUTCH	93274 53882
267	GADHAVI RAJ	19-05-2002	BHUJ CITY	KUTCH	99259 19238
269	MAN NANTANI	25-02-2005	BHUJ CITY	KUTCH	94094 50863
209	DIVYADAN GHADHVI	23-02-2003	BHUJ CITY	KUTCH	82000 57758
270	BHAVANI AVDESH	08-05-2003	BHUJ CITY	KUTCH	94082 95797
271	NISHIT K SOLANKI	10-12-2004	BHUJ CITY	KUTCH	79844 79548
272	PARMAR SHILPA	25-11-2003	NAKHTRANA	KUTCH	91733 90594
273	SANGAR AARTI	03-01-2004	BHUJ CITY	KUTCH	83203 44981
274	ARJUNGOSWAMI	17-01-2005	NALIYA	KUTCH	79706 44186
275	DHRUV RUPESHBHAI	17-01-2003	BHUJ CITY	KUTCH	79700 44180
270	MAHETASAKASHI	04-05-2004	MADHAPAR	KUTCH	97257 16658
211	MATILIASAKASIII	07-03-2004		KUICH	<i>J12J1</i> 100J0

278	SAMARA NAHIM	22-08-2003	BHUJ CITY	KUTCH	78749 11238
279	KOLI SADBHAVANA R	16-11-2002	MANKUVA	KUTCH	84695 16052
280	KAMAB RABARI	03-06-2003	VYAR	KUTCH	93285 74855
281	KHIMAJI V RABARI	01-11-2003	NAKHTRANA	KUTCH	74359 41222
282	RAMA RABARI	30-03-2004	NAKHTRANA	KUTCH	93130 90494
283	HIRA B RABARI	17-11-2003	VYAR	KUTCH	93130 88753
284	AMINHINGORAJA	12-01-2004	BALAPAR	KUTCH	63556 57126
285	NARSINH R KOLI	11-05-2004	JINJIYA	KUTCH	63559 94353
286	NILESHR RABARI	13-10-1999	DABAN	KUTCH	96388 35642
287	SOMA K RABARI	09-08-2004	VYAR	KUTCH	95103 00948
288	ISHVARBHAI M RABARI	29-09-2002	BHUJ CITY	KUTCH	95104 08155
289	BHIKHA M RABARI	06-06-2003	BHUJ CITY	KUTCH	74339 39928
290	MANISH K POKAR	14-10-2001	GHADANIDHA M	KUTCH	96646 91066
291	MANAVK POKAR	30-07-2003	GHADANIDHA M	KUTCH	97374 61040
292	NARENDRASINH JADEJA	17-10-2004	TODIYA	KUTCH	63521 57403
293	LAKHUBHA P JADEJA	22-07-2003	TODIYA	KUTCH	63542 67832
294	HIMATSINH JADEJA	0000-00-00	KHUMBHADIY A	KUTCH	99784 39789
295	DEVENDRASINH JADEJA	01-06-2001	BANDIYA	KUTCH	93286 70778
296	CHANDRASINH JADEJA	12-11-2002	BHUJ CITY	KUTCH	79845 10335
297	MITRAJSINH SODHA	29-04-2004	BHUJ CITY	KUTCH	81415 61948
298	NIRALI BARDIYA	06-05-2003	BHUJ CITY	KUTCH	96874 82255
299	MAYPATSINH G SODHA	24-04-2002	NAKHTRANA	KUTCH	93137 43108
300	MAHESHWARI JIGAR	25-11-2002	BHUJ CITY	KUTCH	81601 98113

Annexure-20 List of NGOs and CBOs – of Kutch District

Sr	Name Of NGO/ CBO	Address	Contact Parson	Contact Number
1	Kutch nav nirman Abhiyan	70/B,bankars coloney, opp. jubeli ground,Bhuj, highway.370001	Sh. lalbhai Rambhiya	02834 287393
2	Ashapura Foundation	Mani Nagar, Virani Road, Nakhtrana-Kutch	Mr. Danabhai A. Zapdiya <u>www.ashapurafoundation.org</u>	(02835) 223605
3	Bhimani Khadi Mandal	Lilpur Taluka: Rapar – Kutch – 370 165	Mr. Kanubha Jadeja	(02830) 220068 263114
4	Bhojay Sarvodaya Trust	Bhojay, Taluka: Mandvi – Kutch – 370 450	Mr. Hiralalbhai Savla <u>bhojayhospital@yahoo.co.in</u>	(02834) 278602 278610 9879506059
5	Bidada Sarvodaya Trust	Bidada, Taluka: Mandvi – Kutch	Mr. Santilalbhai Vira <u>bidadahospital@hotmail.com</u> <u>www.bidada.org</u>	(02834) 244444 244143 244466
6	Cohesion Foundation Trust	Ravibhai Soni's House,Opp. Banglow No. 4, Nr. English School, Ayodhyapuri-Kutch	Kalyanbhai Dangar <u>www.cohesionfoundation.org</u> <u>cohesionrapar@indiatimes.com</u>	(02830) 220302 9828309408

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	Gram Swaraj	C/o Sontekari	Mr. Dineshbhai Sanghavi	
7	Sangh	Post: Neelpar, Taluka: Rapar – Kutch	www.gramswarajsangh.org Mo. 98791 59755	(02830) 293218
8	Kutch Fodder, Fruit & Forest Development Trust	102, Kaushik Appartment, Bhanusali Nagar, Bhuj–Kutch–370 001	Mr. Jayeshbhai Lalka <u>kfffdt@rediffmail.com</u>	(02832) 231173 650750
9	Gujarat Institute Of Desert Ecology	Opp. Changleshwar Mahadev, Mundra Road, Bhuj – Kutch –	Dr.Vijay Kumar desert_ecology@yahoo.com www.gujaratdesertecology.org	(02832) 329408
10	Kutch Mahila Vikas SangAthan	16, "Yogeshwar", Nr. Aasutosh Appt. Ghanshyam Nagar, Bhuj – Kutch - 370 001	Ms. Lataben Sachde, Ms. Preeti Soni <u>kmvskutch@gmail.com</u>	(02832) 222124 223311
11	Kutch Yuvak Sangh	Opp. Mandvi Octroi, Bhuj – Kutch – 370 001	Mr. Komalbhai Chheda <u>www.kutchyuvaksangh.org</u>	(02832) 225163 225163
12	Yusuf Meherally Centre	Bhadreshwar, Taluka: Mundra – Kutch	Sh. Dharmendra Kumar yumeher@rediffmail.com www.yusufmeherally.org	(02838) 283476 9825287275
13	Rural Agro Research & Development Society	C/o. Krishi Vigyan Kendra, Sadau, Taluka : Mundra – Kutch	Mr. Narendrabhai Patwa <u>kvkkutch@rediffmail.com</u> <u>kvkkutch@gmail.com</u>	(02838) 222384 222758
14	Lions Club Of Bhuj	Smt. Zaverben Kantilal Thacker, "LIONS BHAVAN", Hospital Road, Bhuj – Kutch	Mr. Ashokbhai Munshiani	02832 255990 252816
15	Manav Kalyan Trust	Selari Naka Road, Nr. Khodiyar Mandir, Rapar- Kutch-370165	Sh. Lallubhai Desai ggisgujarat@redifmail.com mktgujatat@gmail.com	(02830) 221947 9825228901
16	Sahjeevan	175, Jalaram Society, Bhuj – Kutch	Mr. Sabysachi Das sahjeevan@gmail.com www.sahjeevan.org	02832) 251814 251914
17	Shri Sarva Seva Sangh, Bhuj	Opp. V. D. High school, Bhuj – Kutch – 370 001.	Mr.Upendrabhai Upadhyay 9824484011	(02832) 222830
18	Saraswatam	Nr. Old Post Office, Mandvi – Kutch	Mr. Shivdasbhai Patel saraswatam@gmail.com	(02834) 223017
19	Shrujan	Behind G.E.B. Sub station Po. Bhujodi, Bhuj – Kutch	Ms. Chandaben Shroff shrujanad1@sancharnet.in mktshrujan@rediffmail.com www.shrujan.org	(02832) 240272/ 241903
20	Shree Sangh	Ratadiya, Taluka: Mundra – Kutch	Shri Monghiben Myatra <u>www.shreesangh.co.in</u>	02838 286670
21	Shroff Foundation Trust	C/o. Agrocell Ind. Ltd., Nr. PCV Mehta School, Lotus Colony, Bhuj-Kutch-370001	Sh. Maganbhai Makwana sftkutch@rediffmail.com shroffsfoundation.org	02832 2324154
22	Unnati	Nr. Euro Ceramic, Village : Navagam Bhachau –Kutch 3	Shri Bhanubhai <u>unnati@sancharnet.in</u> <u>www.unnati.org</u>	(02837) 223294

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23	Veerayatan Vidyapeeth	Jakhaniya, Post-Talvana Taluka-Mandvi	Sh. Sadhvi Shilapiji Dr.Kaushikbhai shah <u>shilapiji@hotmail.com</u> <u>anil@veerayatan.org</u> <u>www.veerayatan.org</u>	(02834) 275483 8980191698
24	The Corbett Foundation	Khatau Mankanji Bungalow, Tera, Taluka: Abdasa – Kutch – 370 660	Sh. Bhupendrasinhji kerc99@rediffmail.comwww.co rbettfoundation.org	(02831) 289305 222158
25	Vivekanand Gramodhyog Society 465 Sh. Kishorbhai Bhadra Sh. Kishorbhai Bhadra Vgsbatik@rediffmail.com www.vgsbatik.org		(02834) 221024 / 230651 223838	
26	Viksat	Craft Park, Nr. B.M.C.B. City, Kukma	Sh. Dhanjibhai Bhingradiya <u>viksatbhuj@gmail.com</u> <u>www.viksat.org</u>	(02832) 271555
27	Vivekanand Research & Training Institute	Vivekanand Research & TrainingSh. Mavjibhai Baraiya <u>vrti mandvi@yahoo.co</u> mMandvi – Kutch – 370 465m		02834) 223253 / 223934
28	AridSwajan Jivan Kendra,Yogeshbhai JadejaCommunities &Mundra Road Relocation Site,mail@act-india.orgTechnologiesBhuj- Kutch-www.act-india.org		(02832) 645152, 651531	
29	Shri Vagad Sarvodaya Trust	National Highway No.8, Opp. Custom Check Post,Bhachau – Kutch- 370 140	Sh. Dr.Manharbhai Shah	02837) 224041, 224641 224614
30	Shri Navchetan Andhjan Mandal	Viklang Vidya Vihar Opp. Kutch Dairy, P.B.No12, Madhapar Kutch 370020	Sh. Laljibhai Prajapati <u>info@navchetan.org</u> , <u>www.navchetan.org</u>	(02832) 240210, 242989 242079
31	Shri Maldhari Mangal Mandir Trust	Bhujodi, Bhuj – Kutch – 370 020	Sh. Punjalbhai Rabari	(02832) 240851 227262
32	Satvik:26, First Lane, Banker'sPromotingColony,EcologicalBh. Syndicate Bank, Nr.FarmingJubilee Ground, Bhuj – Kutch- 370 001Satvik.india@gmail.com		(02832) 254872	
33	Khamir-Craft Resource CenterKhamir Craft Park, Bh. BMCB city, Off. Dudhi Road, Post: Kukma Bhuj – Kutch: Sh. Meeraben Goradiya: khamir.crc@gmail.com		(02832) 271422, 271272	
34	Ujjas Mahila Sangathan	Krishi Vighyan Kendra compound, Gundala Road, Village : Sadau,Tal.: Mundra– Kutch	Sh. Aminaben Gadh umsmundra@gmail.com	(02838) 223104
35	Saiyere Jo Sangathan	Maninagar, Virani Road, Nakhatrana– Kutch	Sh. Nanduba Jadeja sjskutch@yahoo.co.in	(02835) 221124
36	Dhan Vallabh Charitable Turst	C/o. Tulsi Vidhyamandir, Village: Nana Bhadiya, Tal.: Mandvi– Kutch – 370475	Sh. Lalbhai Rambhiya	(02834) 287393

37	India Renal Foundation	Aadani Foundation, Block NO. 1, GK General Hospital, Madhapar Road, Bhuj-Dist- Kutch	Shr. Rajat Gandhi	85111 48228
38	Indian Red Cross Society Kutch	Indian Red Cross Society Airport ring road Near Tri Mandir, Bhuj Kutch	Shr. Arun Jain	9825173994

Items and Norms of assistance From the State Disaster Response Fund (SDRF) and The National Disaster Response Fund (NDRF) for the period 2022-23 to 2025-26 Regarding

Sr. No.		Items	Norms of Assistance
1.		Gratuitous Relief	
	a)	Ex-Gratia payment to families of deceased persons.	Rs. 4.00 lakh per deccased person including those involved in relief operations or associated in preparedness activities subject to certification regarding cause of death from appropriate authority.
	b)	Ex-Gratia payment for loss of a limb or eye(s)	Rs. 74,000/- per person, when the disability is between 40% and 60%
			Rs. 2.50 lakh per person, when the disability is more than 60%
			Subject to certification by a doctor from a hospital or dispensary of Government, regarding extent and cause of disability.
	c)	Grievous injury requiring hospitalization	Rs.16,000 /- per person requiring hospitalization for more than a week.
			Rs. 5400/- per person requiring hospitalization for less than a week.
	d)	Clothing and utensils/ house-hold goods for families whose houses have been washed away/ fully damaged/severely inundated for more than two days due to a natural calamity.	Rs.2500/- per family, for loss of clothing. Rs. 2500/- per family, for loss of utensils/ household goods.
	e)	Gratuitous relief for families whose livelihood is seriuosly affected	Rs. 60/- per adult and Rs. 45/- per child, not housed in relief camps, State Govt. will certify that identified beneficiaries are not housed in relief camps. further State Government will provide the basis and process for arriving at such beneficiaries district-wise
			Period for providing gratuitous relief will be as per assessment of the State Executive Committee (SEC) and the Central Team (in case of NDRF). The default period of assistance will upto to 30days, which may be extended upto 60 days in the first instance, if required, and subsequently upto 90 days in case of

			drought/ pest attack. Depending on the ground situation, the	
			State Executive Committee can extend the time period beyond	
			the prescribe limits subject to that expenditure on this account	
	~		should not exceed 25% of SDRF allocation for the year.	
2.		& Rescue Operations		
	a)	Cost of search and	As per actual cost incurred, assessed by SEC and recommended	
		rescue measures/	by the Central Team (in case of NDRF)	
		evacuation of people		
		affected/ likely to be	By the time the Central Team visits the affected area, these	
		affected	activities are already over. Therefore, the State Level Committee	
			and the Central Team can recommand actual/ near-actual costs.	
	b)	Hiring of boats for	As per assessment of need by SEC and recommendation of the	
		carring immediate relief	Central Team (in case of NDRF),	
		and saving lives.		
		-	The quantum of assistance will be limited to the actual	
			expenditure incurred on hiring boats and essential equipment	
			required for rescuing stranded people and thereby saving human	
			lives during a notified natural calamity.	
3.		Relief Measures		
	a)	Provision for temporary	As per assessment of need by SEC and recommendation of the	
		accomodation, food,	Central Team (in case of NDRF), for a period upto 30 days. The	
		clothing, medical care,	SEC would need to specify the number of camps, their duration	
		etc .for people affected/	and the number of persons in camps. In case of continuation of a	
		evacuated and sheltered	calamity like drought, or widespread devastation caused by	
		in relief camps.	earthquake or flood etc. this period may be extended to 60 days,	
		-	and upto 90 days in cases of severe drought. Depending on the	
			ground situtation, the State Executive Committee can extend the	
			time period beyond the prescribed limit subject to that	
			expenditure on this account should not exceed 25% of SDRF	
			allocation for the year.	
			·	
			Medical care may be provided from National Rural Health	
			Mission ()NRHM	
<u> </u>	b)	Air dropping of essential	As per actual, based on assessment of need by SEC and	
		supplies	recommendation of the Central Team (in case of NDRF)	
			The quantum of assistance will be limited to actual amount	
			raised in the bills by the Ministry of Defence for airdropping of	
			essential supplies and rescue operations only;	
	c)	Provision of emergency	As per actual cost, based on assessment of need by SEC and	
		supply of drinking water	recommended by the Central Team (in case of NDRF), up to 30	
		in rural areas and urban	days and may be extended upto 90 days in case of drought.	
		areas.	Depending on the ground situation, the State Executive	
		areas.	Committee can extend the time period beyond the prescribed	
			limit subject to that expenditure on this account should not	
			limit subject to that expenditure on this account should not	
			exceed 25% of SDRF allocation for the year.	

4.		Cleara	nce of Affected Areas	
		a)	Clearance of debris in public areas.	As per actual cost within 30 days from the date of start of the work based on assessment of need by SEC for the assitance to be provided under SDRF and as per assessment of the Central team for assistance to be provided udner NDRF.
		b)	Draining off flood water in affected areas	As per actual cost within 30 days from the date of start of the work based on assessment of need by SEC for the assistance to be provided under SDRF and as per assessment of the Central team (in case of NDRF)
		c)	Disposal of dead bodies/ Carcases	As per actuals based on assessment of need by SEC and recommendation of the Central Team (in case of NDRF)
5.		Agricu	lture	
	i)		nce farmers having lding upto 2 ha.	
	A.	Assista loss	nce for land and other	
		a)	De-silting of agricultural land (where thickness of sand/ silt deposit is more than 3", to be certified by the competent authority of the State Government)	Rs. 18,000/- per Hectare for each item. Above is Subject to a minimum assistance of not less then Rs.2200/- per farmer (Subject to the condition that no other assistance/ subsidy has been availed of by/ is eligible to the beneficiary under any other Government Scheme)
		b)	Removal of debris on agricultural land in hilly areas	
		c)	De-silting/ Restoration/ Repair of fish farms	
		d)	Loss of substatial portion of land caused by landslide, avalanche, change of course of rivers.	Rs. 37,500/- per Hectare to only those small and marginal farmers whose owenership of the land is legitimate as per the revenue records.
	В.	.	ubsidy (where crop loss is and above)	
		a)	for agriculture crops, horticultre crops and annual plantation crops	 Rs. 8,500/- per Ha, in rainfed areas. Above is Subject to a minimum assistance of not less than Rs.1000/- per farmer and restricated to sown areas. Rs. 17,000/- per ha. in assured irrigated areas. Above is subject to minimum assistance not less than Rs. 2000 /- and restricted to sown areas.
		b)	Perennial crops	Rs. 22,500/- ha. for all types of perennial crops subject to minimum assistance not less than Rs 2500/- and restricted to sown areas.

ii) Input subsidy to farmers having more than 2 Ha of landholding Rs.7500/- per ha for Mags. Rs.7500/- per ha for Mags. Above is Subject to a minimum assistance of not less than Rs.1000/- per farmer and restricted to sown areas. Rs.8,500/- per hectare in rainfed areas and restricted to sown areas.			
Above is Subject to a minimum assistance of not less than Rs.1000/- per farmer and restricted to sown areas. ii) Input subsidy to farmers having more than 2 Ha of landholding Rs.8,500/- per hectare in rainfed areas and restricted to sown areas. Rs.17,000/- per hectare for areas assured irrigation and restricte to sown areas. Rs.17,000/- per hectare for all types of perennial crops and restricted to sown areas. Rs.22,500/- per hectare for all types of perennial crops and restricted to sown areas. Assistance may be provided where crop loss is 33% and above subject to ceiling of 2 ha. per farmer. 6. Animal Husbandry Assistance to Small and Marginal Farmers i) Replacement of milch animals, drought animals or animals used for haulage. Milch animals. Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc Rs.4000/- Sheep/Goat/Pig		c) Sericulture	Rs.6000/- per ha. for Eri, Mulberry, Tussar
ii) Input subsidy to farmers having more than 2 Ha of landholding Rs.1000/- per farmer and restricted to sown areas. iii) Input subsidy to farmers having more than 2 Ha of landholding Rs.8,500/- per hectare in rainfed areas and restricted to sown areas. Rs.17,000/- per hectare for areas assured irrigation and restricted to sown areas. Rs.17,000/- per hectare for all types of perennial crops and restricted to sown areas. Rs.22,500/- per hectare for all types of perennial crops and restricted to sown areas. Assistance may be provided where crop loss is 33% and above subject to ceiling of 2 ha. per farmer. 6. Animal Husbandry Assistance to Small and Marginal Farmers i) Replacement of milch animals, drought animals or animals used for haulage. ii) Replacement of milch animals, drought animals or animals used for haulage.			Rs.7500/- per ha for Mags.
ii) Input subsidy to farmers having more than 2 Ha of landholding Rs.8,500/- per hectare in rainfed areas and restricted to sown areas. Rs.17,000/- per hectare for areas assured irrigation and restricter to sown areas. Rs.22,500/- per hectare for all types of perennial crops and restricted to sown areas. Rs.22,500/- per hectare for all types of perennial crops and restricted to sown areas. Assistance may be provided where crop loss is 33% and above subject to ceiling of 2 ha. per farmer. 6. Animal Husbandry Assistance to Small and Marginal Farmers Milch animals; drought animals or animals used for haulage. i) Replacement of milch animals, drought animals used for haulage. Milch animals:			5
to sown areas. Rs.22,500/- per hectare for all types of perennial crops and restricted to sown areas. Assistance may be provided where crop loss is 33% and above subject to ceiling of 2 ha. per farmer. 6. Animal Husbandry Assistance to Small and Marginal Farmers i) Replacement of milch animals, drought animals or animals used for haulage. Milch animals: Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc Rs.4000/- Sheep/Goat/Pig	<i>,</i>		Rs.8,500/- per hectare in rainfed areas and restricted to sown
i) Replacement of milch animals, drought animals used for haulage. Milch animals: Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc Rs. 4000/- Sheep/Goat/Pig			Rs.17,000/- per hectare for areas assured irrigation and restricted to sown areas.
6. Animal Husbandry Assistance to Small and Marginal Farmers subject to ceiling of 2 ha. per farmer. 6. Animal Husbandry Assistance to Small and Marginal Farmers Milch animals: i) Replacement of milch animals, drought animals or animals used for haulage. Milch animals: Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc Rs. 4000/- Sheep/Goat/Pig			
to Small and Marginal Farmers Milch animals: i) Replacement of milch animals, drought animals or animals used for haulage. Milch animals: Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc			
i) Replacement of milch animals, drought animals or animals used for haulage. Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc Rs. 4000/- Sheep/Goat/Pig	1	to Small and Marginal	
drought animals or animals used for haulage. Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc Rs.4000/- Sheep/Goat/Pig		i) Replacement of	Milch animals:
haulage. Rs.4000/- Sheep/Goat/Pig		drought animals or	Rs. 37,500/- Buffalo/Cow/Camel/Yak/Mithun etc
Drought animals			Rs.4000/- Sheep/Goat/Pig
			Drought animals
Rs. 32,000/- Camel/Horse/Bullock etc			Rs. 32,000/- Camel/Horse/Bullock etc
Rs 20,000/- Calf/Donkey/Pony/Mule			Rs 20,000/- Calf/Donkey/Pony/Mule
of 3 large milch animals or 30 small milch animals or 3 large drought animals or 6 small drought animals per household irrespective of wheter a household has lost a larger nubmer or			economically productive animals and will be subject to a ceiling of 3 large milch animals or 30 small milch animals or 3 large drought animals or 6 small drought animals per household irrespective of wheter a household has lost a larger nubmer or animals. (The loss is to be certified by the Competent Authority
Poultry:			Poultry:
			Poultry @ 100/- per bird subject to a ceiling of assistance of Rs 5000/- per beneficiary household. The death of the poultry birds should be on accound of a natural calamity.
			Department of Animal Husbandry has a separate scheme for
ii) Provision of fodder/ Large animals- Rs. 80/- per day.		ii) Provision of fodder/	

		ed concentrate cluding water	Small animals- Rs 45/- per day. Period for providign relief will be as per assessment of the State		
	su m	pply and edicines in cattle	Executive Committee (SEC) and the Central Team (in case of NDRF). The default period for assistance will be upto 30 days,		
	са	imps.	which may be extended upto 60 days in the first instance and in case of severe drought up to 90 days. Depending on the ground situation, the State Executive Committee can extend the time period beyond the prescrived limit, subject to the stipulation that expenditure on this account should not exceed 25% of SDRF allocation for the year. Based on assessment of need by SEC and recommendation of the Central Team, (in case of NDRF) consistent with estimates of cattle as per Livestock Census and subject to the certificate by the competent authority about the requirement of medicine and vaccine being calamity related.		
	ca	rasport of fodder to attle outside cattle amps	As per actual cost of trasport, based on assessment of need by SEC and recommendation of the Central Team (in case of NDRF) consistent with estimates of cattle as per Livestock		
7.	Fishery		Census.		
	i) As	ssistance to	Rs.6,000/- for repair of partially damaged boats only		
	re bo	Iserman for repair/ placement of pats, nets- damaged tost	Rs. 3,000/- for repair of partially damaged net		
	Boat				
	Dugout- Cano	e	Rs.15,000/- for replacement of fully damaged boats		
	Catamaran				
	Net		Rs.4,000/- for replacemetn of fully damaged net		
	elifible or has subsidy/ assist	e beneficiary is availed of any mace, for the lty under any other			
		put subsidy for sh seed farm	Rs. 10,000/- per hectare.		
			(This assistance will not be provided if the beneficiary is eligible or has availed of any subsidy/ assistance, for the instant calamity, under any other Government Scheme, except the one time subsidy provided under the Scheme of Department of Animal, Husbandry, Dairying and Fishereis, Ministry of Agriculture)		
8.		fts/ Handloom ce to Articians			
	i) Fo	or replacement of amaged tools/	Rs.5,000/- per artisan for equipments. Subject to certification by the competent authority designated by the Government about damage and its replacement.		

		equipment	
	ii)	For loss of raw material/ goods in process/ finished goods	Rs.5,000/- per artisan for raw material. Subject to certification by Competent Authority designated by the State Government about loss and its replacement
9.		Housing	
	a)	Fully damaged/ destroyed houses	
	i) ii)	Pucca house Kutcha house	Rs.1,20,000/- Per house, in plain areas. Rs. 1,30,000/- per house, in hilly areas including Integrated Action Plan (IAP) districts
	b)	Partially Damaged Houses	
	i)	Pucca (other than huts) where the damage is at least 15%	Rs.65,00/- per house
	ii)	Kutch (other than huts) where the damage is at least 15%	Rs.4,000/- per house
	c)	Damaged/ destroyed huts:	Rs.8,000/- per hut, (Hut means temporary, make shift unit, inferior to Kutcha house, made of thatch, mud, plastic sheets etc. traditionally recognized as hut by the State. District authorities) Note: The damaged house should be an authorized construction duly certified by the Competent Authority of the State Government
	d)	Cattle shed attached with house	Rs.3,000/- per shed.

Illustrative List of Activities Identified As of an Immediate Nature:

1. Drinking Water Supply:

- i) Repair of damaged platforms of hand pumps/ ring wells/ spring-tapped chambers/ public stant posts, cisterns.
- ii) Restoration of damaged stand posts including replacement of damaged pipe lenghts with new pipe lenghts, cleanign of clear water reservoir (to make it leak proof)
- iii) Repair of damaged pumping machines, leaking overhead reservoirs and water pumps includings damaged intake- structure, approach gantries/ jetties.

2. Roads

- i) Filling up of breaches and pathholes, use of pipe for creating waterways, repair and stone pitching of embankments.
- ii) Repair of breached culverts.
- iii) Providing diversions to the damaged/ washed out portions of bridges to restore immediate connectivity.
- iv) Temporary repari of approaches to bridges/ embankments of bridges, repair of damaged railing bridges, repair of causeways to restore immediate connectivity, granular sub base, over damaged stretch of roads to restore traffic.

2. Irrigation:

- i) Immediate repair of damaged canal structures and earthern/masonry works of tanks and small reservoirs with the use of cement, sand bags and stones.
- ii) Repair of weak areas such as piping or rat holes in dam walls/ embankments.
- iii) Removal of vegetative material/ building material/ debris from canal and drainage system.

3. Health:

Repair of damaged approach roads, buildings and electrical lines of PHCs/ community Health Centres.

4. Community assets of Panchayat

- a) Repair of village internal roads.
- b) Removal of debris from drainage/sewerage lines.
- c) Repair of internal water supply lines.
- d) Repair of street lights.
- e) Temporary repair of primary schools, Panchayat Ghars, Community halls, Anganwadi. etc.

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 Kutch District mainly use school, collage /community hall ,and Samaj Vadi for shifting of Affected people.Also already it has bed 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/Samajvadi etc. 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

Annexure:22

Media Management Plan

1. Preparedness

External

- Broadcast programs to raise people's awareness of disaster prevention measures
- Develop news sources in emergency situation
- Liaison with community leaders
- Publicize station frequency
- Broadcast public planning meetings
- Outreach to the elderly, women, children, mentally and
- physically disabled people, as well as other marginalized
- and other vulnerable groups
- Encourage stockpiling of (hand –powered) radio receivers
- Compile local knowledge on signs of impending disaster and share it with community

Internal

- g. Back up important documents and files (including audio content) and store in a safe location
- h. If possible, place a set of minimum broadcast equipment such as a microphone, tape/CD player, transmitter and antennae in a safe location
- i. Plan radio programs to raise people's awareness of disaster prevention
- j. First aid training for station personnel
- k. Technical preparedness (generator, APS, securing, transmitter
- 1. Guidelines for managing staff and volunteers
- m. Arrange emergency drills in the station
- n. Develop a contact list and post in station
- o. Map community (ethnicity, religion, race, culture, vulnerability)
- p. Prepare pre-recorded Emergency Response
- q. Announcements and scripts and post in the studio

2. Mitigation

Develop networks with local Disaster Management and Response (DMR) NGOs, local government and key stakeholders: hold regular meeting with them

- r. Arrange emergency drills in the community
- s. Training of on-air personnel what and how to broadcast

3. Response

External-on air

- t. Broadcast pre-prepared announcements
- u. Broadcast emergency public meetings
- v. Broadcast emergency evacuation announcements
- w. All announcements broadcast in a reassuring and calm
- x. manner
- y. Dispel myths and rumors and provide timely and accurate
- z. updates
- aa. Broadcast updates on damage situation
- bb. Produce programs in which victims can express themselves
- cc. Establish contact with the meteorological office and
- dd. broadcast weather information

Internal-behind the scenes

- ee. Ensure safety of all station personnel
- ff. Call station briefing meeting
- gg. Notify CR networks of status
- hh. Monitor all official announcements and activities of
- ii. national government, local government and aid
- jj. agencies(NGOs)
- kk. Enact station evacuation plan if needed
- 11. Log all communications for reference
- mm. Stay calm
- nn. Divide information work so that all voices of the community can be heard and not just male leaders.

4. Relief

Establish Information Support Centre for information sharing and logistic distribution

5. Rehabilitation

External – Networking and Support

- oo. Broadcast pre-prepared announcements
- pp. Broadcast programs to heal victim's psychology trauma.
- qq. Interview trauma counselors, monks, Imams and priests
- rr. Broadcast recovery announcements
- ss. Cooperate with DMR NGOs, local government and key stakeholders
- tt. Broadcast recovery public meetings
- uu. Provide call in or talk-back programs for people to people interactions

Broadcast positive entertainment programming

Annexure: 23

Contacts directory

On receipt of information about the incident, all Task force leaders shall report immediately to the collector in the district EOC. The coordinator of each taskforce shall send communication to their members to report immediately in their respective control rooms. Taluka liaison Officers shall report to Mamlatdar in their respective Taluka control rooms

	State Level Emergency Contacts Number					
Sr. No.	EOCs/ Control rooms		Contact Numbers			
1	State Emergency Operation Conten	070	23251900, 23251902,			
1	State Emergency Operation Center	079	23251914 F- 23251916			
2	Relief Commissioner	079	23251509, 23251568			
3	Director of Relief	079	23251611, 23251916,			
3	Director of Rener	0/9	23251912			
1	CEO, GSDMA	079	23259220, 23259275,			
4.	CEO, OSDMA	079	23259289			
5	5 Pri. Secretary Revenue Department		23251591, 23251591			
6	6 Dy. Collector (SEOC)		23251990, 23251916-12			
7	India Meteorological Department,	079	22865012, 22865449,			
/	Ahmadabad	079	22865165, 22861413			
8	Institute of seismological Gandhinagar	079	66739000, 23257641,			
o	Institute of seismological Gandhinagai		23252703			
9	NDRF team Gandhinagar		23201551, F- 23202540			
10	Commandant of NDRF team	079	23202540, 094288 26445			
10	Gandhinagar	079	23202340, 094288 20443			
11	District EOC Help line	02832	1077			
12	12 States EOC Help line		1070			

Annexure: 24 State Level Emergency Contacts Number

Annexure: 25

Task Force Operation Room

Sr.	Name TASK FORCE	Phone Number
No.		
1	Warning and Communications	02832-250650
2	Law and Order	02832-250444
3	Search and Rescue	02832-253593
4	Public Works	02832-221450
5	Shelter	02832-221103
6	Water Supply	02832-252310
7	Food and Relief supplies	02832-221453
8	Public Health and Sanitation	02832-252207
9	Power	02832-253550
10	Logistics	02832-250080

11	Animal Health and Welfare	02832-221650
12	Damage assessment/Survey	02832-252704
13	Media/public Information	02832-250954
14	Planning and coordination	02832-252704
15	Financial arrangement	02832 252704
16	Emergency Response Center Gandhidham	98255 72188

Annexure: 26

Sub Divisional Emergency Operation Center

Sr. No.	Sub Divisional	Contact Number
1	Bhuj	02832 251007
2	Anjar	02836 243345
3	Bhachau	02837 224101
4	Mundra	02838 222127
5	Nakhatrana	02835 222122
6	Abdasa	02831 222188

Annexure: 27

Taluka Emergency Operation Center

Sr. No	Taluka Emergency Operation Center	Code	Phone Number
1	Bhuj	02832	230832
2	Mandavi	02834	222711
3	Mundra	02838	222127
4	Abdasa	02831	222131
5	Nakhatrana	02835	222124
6	Lakhpat	02839	233341
7	Anjar	02836	242588
8	Gandhidham	02836	250270
9	Bhachau	02837	224026
10	Rapar	02830	220001

Annexure: 28 District Level Flood and Cyclone Control Phone Number

Sr.No.	Designation	Office	Fax
1	District EOC	02832-252347	224150
2	DDO Control Room	02832-220007	250355 /220240
3	DSP Police Control room	02832-250 960/ 253593	250427
4	Department of Fisheries Control Room	02832-253785	250292
5	Irrigation Control room	02832-252507	252507
6	Water supply Board Control Room	02832-252310	261806
7	Methodological Department	02832-250575	250575
8	Port office Kandla	02836-220016/257903	220016
		02836-233192	

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9	Port office Mandvi	02834-223033	230033
		02834-222633	222633
10	Port office Mundra	02838-222136	-
11	Port office Jakho	02831-287235	02831 287235
12	Commanding Officer Jakho Coastguard	02831-286430	02831 286432
13	Geographical control room	02832-223551	02832 223551
14	Department of Seismological	02832-221352	
15	Air force control room Bhuj	02832-244000	02832 244104
16	Army Control room Bhuj	02832-258441/42/43	02832 258441
17	BSF Bhuj Control room	02832-299659	02832 256770
		02832-256770	
18	Border Wing Bhuj	02832-221495	02832 221495
19	Chief Engineer PGVCL	02832-255831	250048
20	Executive Engineer R & B(State)	02832-251450/ 220252	250424
21	Executive Engineer R & B (Panchayat)	02832-250834	250355
22	Director DRDA	02832-231577	231342
23	RTO Bhuj	02832-21950	251566

Annexure: 29 District Level Important Contact Number

Sr.no.	Designation	Office	Mobile	Fax
1	Collector –Kutch	02832-250020	99784 06213	250430
2	DDO-Kutch	02832-250080	99784 06238	250355
3	DSP-Bhuj	02832-250444	99784 05073	250427
4	DSP-Gandhidham	02836-280287	99784 05690	280211
8	Resident Additional Collector-Kutch	02832-250650	99784 05212	250430
9	DSO-Kutch	02832-221453	72268 03513	227495
10	Dy. Collector MDM	02832-223952	72268 03513	
10	Dy. Collector Stamp Duty	02832-253510	88493 12991	223510
11	Dy. Collector Civil Defense	02832-230603		
13	District Planning Officer	02832-252302	94263 52746	250302
14	Disaster Mamlatdar	02832-250923	93275 00801	224150
15	District Project officer(DPO) GSDMA	02832-250923	94295 83526	224150
16	Chief Engineer GWS&D Board	02832-221806	99784 06534	250378
17	Chief EngineerIrrigation Dept.(State)	02832-250214	99250 27093	254834
18	Chief Engineer PGVCL	02832-255831	99798 67510	250048
19	Executive Engineer PGVCL	02832-233550	98792 00789	258052
20	Executive Engineer R & B(State)	02832-251450	98795 71863	250424
			94292 32939	
21	Executive Engineer R & B (Panchayat)	02832-250834	98253 88575	250834
			90548 64708	
22	Director DRDA	02832-231577	63550 03531	231342
23	RTO Bhuj	02832-221950	80002 56555	251566

24	Executive Engineer Irrigation (Panchayat)	02832-251879	94265 19084	220240
24	Executive Engineer inigation (Fanchayat)	02832-231879	98795 18768	220240
25	Dy. Information Officer Bhuj	02832-224859	94272 36878	250954
25	Assistant Controller Of Food and	02832-224859	98254 00387	223253
20	Medicine	02832-223233	98253 55361	223233
27	Assistant Director of Fisheries	02832-250292	96625 46241	250292
21	Department Bhuj	253785	90023 40241	230292
28	CDHO Bhuj	02832-252207	63542 64142	221666
20	Dy. Animal Director Panchayat Bhuj	02832-232207	94267 14919	221650
30	Departmental Director S.T.Bhuj	02832-221050	63599 19029	250064
30	Civil Surgeon Bhuj	02832-250150	98252 29007	250150
31	Chief Forest Officer Bhuj	02832-220937	75749 50030	250336
32	DFO Bhuj (East)	02832-220737	97255 12525	229630
33	DFO Bhuj (Last)	02832-230227	98790 06216	227030
35	General Manager DIC	02832-250501	63571 50193	251300
35	Dy. Commissioner of Charity, Bhuj	02832-230301	98981 39898	221403
30	Town Planning Officer	02832-221403	99780 15510	250879
37	Sale tax office	02832-230879	95102 31478	230879
39	District Education Officer Bhuj	02832-220952	99099 70204	250156
40	District Primary Education Officer Bhuj	02832-230130	99099 70204	252403
40	District Filmary Education Officer Bhuj District Education Training Center	02832-221103	9909971083	232403
41 42	Backward Caste Development officer	02832-221491	94272 03332	221492
42	*	02832-220021	99139 30013	252150
43	Commander Border Wing Bhuj		62506 25704	232130
	Bhuj City Police Station A devision	02832-253050 02832-221752/	63596 25794	221752
46	Ex, Er. Salt Control Department	250214		221752
47	Corruption Control Burro	02832-250254	99099 05555	250254
	Kutch Leva Patel Edu. & medical Trust	02832-230234	99099 03333	230234
48 49		02832-251722	99798 97093	251155
	District Registrar Bhuj District Treasury Officer	02832-231733	99741 89039	231733
50 51	District Employment Officer	02832-231202	99241 31373	231202
51	District Employment Officer Bhuj	02832-221758	98796 35311	
-	5	02832-221833	98796 33311 99099 16722	
53	Sub-Registrar Bhuj			222771
54	District Sport Officer	02832-223771	99096 40555	223771
55	Mine and ResourcesOffice Bhuj	-	97277 06383	-
56	Umed Bhavan	02832-252934	94084 59018	
	Zatal Massaure	02022 220541	70161 60313	220541
57	Kutch Museum	02832-220541	82392 50397	220541
58 50	Bhuj Area Development Authority	02832-221862	94279 58699	223899
59	Anjar Area Development Authority	02836245676	99784 05069	241866
60	Bhachau Area Development Authority	02837-224567	99090 13962	224567
61	Rapar Area Development Authority	02830-221385	99090 13962	221385

Annexure: 30

District Panchayat officers Important contact Number

Sr	Designation	Office(02832)	Mobile	Fax
1	District Development officer	250080	99784 06238	250355
2	Dy. DDO (Revenue)	251150	99044 00939	251150
3	Dy. DDO Panchayat	251150	94296 29183	251150
4	Dy. DDO Development	222103	94296 29183	222103
5	Ex. Er. Irrigation Panchayat	251879220240	9879518768	251879
6	Executive Engineer R & B Panchayat	250834	99246 65569	250834
		221050		
7	District Statistical office	221402	95588 15028	
8	District Agriculture Officer	221155	70960 62781	221115
9	District Social Welfare	220654	90999 56866	
			9998161331	
10	CDHO	252207	63542 64142	221666
11	Add. CDHO	223575	99099 49304	
12	District Immunization officer	224702	99099 49304	
			83471 31061	
13	Dy. Director of Animal Welfare	221650	94267 14919	
			94267 04429	
14	District Primary Education Officer	221103	99099 71683	252403
15	Programme officer ICDS	221904	94093 94558	221904
16	District Ayurvedik Officer (I/C)	222998	95881 95161	
17	Project Director Water shade	231963	98792 03251	
18	District Information And Education Media	223575	99099 49307	
19	Dy. District Primary Education officer	211103	98244 85107	
20	District Malaria Officer	222307	97277 34221	222307
21	District Epidemic Controller officer	221666	90232 02627	
22	Administrative officer Health	252207	63597 48149	
24	District TB Officer	223201	96876 84201	
25	P. A. To DDO	250080	96382 14561	
26	P.A. To President	252407	96873 71888	

Annexure: 31 Sub-Divisional Magistrate

				-	
Sr.no.	SDM	Code	Office	Fax	Mobile
1	Bhuj	02832	251007	222127	99784 05099
2	Mundra	02838	223112	223112	75670 08043
3	Anjar	02836	243345	234345	99784 05069
4	Bhachau	02837	224101	224101	88662 24659
5	Nakhatrana	02835	222122	222122	74050 68392
6	Abdasa	02831	222188	222188	75670 08032

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Mannatual Contact Details					
Sr. No	Mamlatdar(Taluka)	Code	Office	Fax	Mobile
1	Bhuj (URBAN)	02832	230832	251250	93270 00801
	Bhuj (RURAL)	08232	230832	230832	75670 03879
2	Mandavi	02834	222711	222075	75670 03835
3	Mundra	02838-	222127	223704	99098 49983
4	Anjar	02836	242588	243362	75670 03944
5	Gandhidham	02836	250270	250339	75670 03975
6	Bhachau	02837	224026	224009	98251 33518
7	Rapar	02830	220001	220057	94260 36218
8	Nakhatrana	02835	222124	222147	90336 24928
9	Abdasa	02831	222131	222132	99742 00947
10	Lakhpat	02839	233341	233340	97265 06003

Annexure: 32 Mamlatdar Contact Details

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Sr. No	TDO(Taluka)	Code	Office	Fax	Mobile
1	Bhuj	02832	221711	256851	85119 75019
2	Mandavi	02834	223082	223079	80048 30166
3	Mundra	02838	222128	223231	94294 57256
4	Anjar	02836	242595	245757	95370 83186
					75670 13775
5	Gandhidham	02836	280236,	280263	94094 29986
			280260		75670 13776
6	Bhachau	02837	223302	223302	81407 05922
7	Rapar	02830	220003	220003	78742 80009
8	Nakhatrana	02835	222144	222144	90333 73612
9	Abdasa	02831	222135	222556	93138 47623
10	Lakhpat	02839	233334	233334	93138 47623

Annexure: 33

Taluka Development Officer Contact Details

Annexure: 34

Chief Officer of Municipality Contact Details

Sr. No	Nagarpalika CO	Code	Office	Mobile	Fax
1	Bhuj	02832	220301	99250 13857	224404
2	Mandavi	02834	223010	99138 63010	231680
3	Anjar	02836	242544	97243 05645	240325/242909
4	Gandhidham	02836	231610/234967	81415 03490	233288
5	Bhachau	02837	224028	97243 05645	224028
6	Rapar	02830	220011	98252 29731	220011
7	Mundra	02835	223010	87802 63154	231680
8	Nakhatrana	-	-	87802 63154	-

Annexure: 35

Taluka Police Station Contact Details

Sr. No	Taluka	Code	P.S.O. Mobil No.
1	Bhuj	02832-253050	A-63596 25794,
			B-63596 29203
2	Mandavi	02834-231508	63596 25791
3	Mundra	02838-222121	63596 25801
4	Anjar	02836-242517	63596 26855
5	Gandhidham	02836-229513/232500	A-63596 26840,
			B-63596 26836
6	Bhachau	02837-224036/291136	63596 26858
7	Rapar	02830-220013	63596 26862
8	Nakhatrana	02835-222133	63596 25787
9	Abdasa(Naliya)	02831-222122	63596 25773
10	Lakhpat(Dayapar)	02839-233333	94283 94576

Sr. No	Taluka	Office	Mobile No.		
1	BHUJ	02832-220002	63599 18440		
2	MANDVI	02834-223004	63599 18449		
3	MUNDRA	02838-224200	63599 18446		
4	ANJAR	02836-242692	63599 18437		
5	BHACHAU	02837-224049	63599 18443		
6	RAPAR	02830-220002	63599 18458		
7	NALIYA	02831-222119	63599 18455		
8	NAKHATRANA	02835-222129	63599 18452		
9	VOLVO HUB	02832-220002	63599 18820		
10	CONTROL ROOM		63599 18436		

Annexure: 36

Gujarat State Road Transportation Nigam Limited Contact Details

Annexure: 37 Gujarat Maritime Board

Sr.	Name of Ports	STD Code	Office	Fax No
No.				
1	Head Office, Gandhinagar	079	238346-48	23234704
2	Magdalla VTMS	0261	2721700	2721700
3	Magdalla Port Office	0261	2474825	2475645
4	Hazira Port Pvt. Ltd., Hazira	0261	3051165	3051158
5	Bharuch (Dahej)	02642	241772	243140
6	Petronet LNG Ltd., Dahej	02641	300325	257252
7	Bhavnagar	0278	2210221	2211026
8	Alang PO	02842	235621	235955
9	Jafrabad	02794	245443	245165
10	Gujarat Pipavav Port Ltd.,	02794	302666	302667
	Pipavav			
11	Veraval	02876	220001	243138
12	Porbandar	0286	2242408	2244013
13	Jamnagar (Bedi)	0288	2755106	2756909
14	Okha	02892	262001	262002
16	Morbi for Navlakhi Port	02822	220435	232470
17	Mandvi Port Office	02834	223033	230033
			96012 54062	
18	Mundra (Asst. Conservetor)	02838	222136	222136
19	Gujarat Adani Port Ltd. (GAPL),	02838	289221-289371	289270 289170
	Mundra		98250 19121	
20	Jakhau (Asst. Conservetor)	02831	287261	287261
			99783 23815	
21	I.M.D. Ahmedabad	0792286	1413/ 22865012	22867206

Annexure: 38
Contact Detail of Fisheries Guard Which are providing Token to
Fishermen

SR.	Name	Name of the	Name of the	Name of the Fisheries Guard	Fisheries
NO.	of The	Taluka	Fisheries		Guard Mobile
	District		Landing		Number
			Centre		
1	Kutch	Lakhpat	Lakhpat	Sodha Gumansinh Fatubha	9427434816
2	Kutch	Na.Sarover(S)	Na.Sarover	Gohil Deepsinh iMegrajji	9925133127
3	Kutch	Abdasa	Jakhau	Joshi Rajeshkumar Kishor	9429173091
4	Kutch	Abdasa(S)	Jakhau	Vager Karim Salemamad	7567878274
5	Kutch	Abdasa	Jakhau	Gadhavi Rambhai Nathabhai	9726111727
6	Kutch	Abdasa	Jakhau	Jadeja Rajendrasinh A.	9913824056
7	Kutch	Abdasa(S)	Jakhau	Saiyad Jenalaabedin Karimsha	9978053754
8	Kutch	Abdasa	Jakhau	Chavda Karshanbhai Lalabhai	9712315472
9	Kutch	Abdasa(S)	Jakhau	Sodha Raguvirsinh Bachesinh	9426595302
10	Kutch	Abdasa	Jakhau	Jadeja Khumansinh Pravensinh	8360480817
11	Kutch	Abdasa	Jakhau	Gusai Bhargeshgiri	
12	Kutch	Abdasa	Jakhau	NIL	
13	Kutch	Abdasa	Jakhau	NIL	
14	Kutch	Abdasa	Jakhau	NIL	
15	Kutch	Mandavi	Mandavi	Harijan Devji Naran	9979330946
16	Kutch	Mandavi(S)	Mandavi	Dafda Vinesh Parsotam	8758276376
17	Kutch	Mandavi(S)	Nanalayja	Vagear Mustak Salemamad	7016749937
18	Kutch	Mandavi(S)	Modhava	Maheshwari Harji Mulji	9979316826
19	Kutch	Mandavi(S)	Modhava	Bhati Bharat Hansaji	8141814518
20	Kutch	Mandavi(S)	Tragadi	Kanani Chaman Petha	8160365699
21	Kutch	Mandavi	Tragadi	NIL	
22	Kutch	Mundra(S)	Navinad	Makwana Mukesh Amulakh	9978219293
23	Kutch	Mundra	Zarapara	Solanki Rameshchandra A.	9979348565
24	Kutch	Mundra	Mundra	Jadeja Pruthvirajsinh Halubha	9979896299
25	Kutch	Mundra(S)	Mundra	Gandher Nareshkumar Chetanlal	9586048347
26	Kutch	Mundra	Luni	Goyal Shantilal Tejmalji	9687176520
27	Kutch	Mundra(S)	Luni	Bhatti NareshKumar P.	9099850872
28	Kutch	Mundra	Bhadreswar	Jadeja Parakramsinh Nardevsinh	9913403909
29	Kutch	Mundra(S)	Bhadreswar	Makvana Ankit Balvant	8469631345
30	Kutch	Mundra	Bhadreswar	Sota Ahemad Ramju	9586402225
31	Kutch	Mundra	Kukadsar	Parmar Maheshbhai Dharshi	9638283113
32	Kutch	Mundra	Kutdinar	NIL	

Sr.No.	District Fire Station	Phone No.	Fax
1	Fire Station Bhuj	02832 299080	224404
		9925170506	
2	Fire Station Mandavi	02834 223010	231680
3	Fire Station Bhachau	02837 224028	224028
4	Fire Station Gandhidham	02836 226573	233288
		8511184600	
5	Fire Station Rapar	02830 220011	220011
6	Fire Station Anjar	02836 242544	240325
			242909
7	Fire Station Kandal Port, Kandla	02836 270176	02836 270176
		98252 27041	
8	Fire Station Control Room	02838 289310/289101	289200
	Adani Port Mundra	7069083035	
9	Fire Station IFFCO Kandla	02836 270352	02836 270642
		99790 26415	
10	Fire Station F.O.C.T. Kandla	02836 270987	270814
		8980018340	
11	Fire Station Control Room	7211103012	
	GAIL(India) Lakadia(Bhachau)		
12	Emergency Response Center	98255 72188	
	Gandhidham		

Annexure: 39 District Fire Stations Important Contact Number

Annexure: 40

Details of village co-ordinates, Shelter Homes & contact person

<u>Mundra Taluka TDO – 9429457256</u>

દરિયા કિનારાના ગામોની માહિતી (મુંદરા તાલુકો)

ક્રમ	ગામનું નામ	lottitudo	longitudo	ગામની વસ્તી	આશ્રયસ્થાનોના	અંદજિતઆશ્રિતોની	બચાવ ટુકડીની વિગત
ઝન	ગામનુ નામ	lattitude	longitude	ની સંખ્યા	નામ	સંખ્યા	ખયાપ ટુકડાના પગત
							(૧)મામદ હુસેન તરવૈયામો.૯૯૧૩૨ ૦૩૮૪૪
					આ૨.ડી.હાઇસ્કુલ-		(૨)સમા રજાક કાસમ તરવૈયા
٩	મુંદરા	22.8309011	69.7261157	50335	મુંદરા,ખારવા	٩٥٥	મો.૯૯૭૯૦ ૭૭૧૫૬
					સમાજવાડી-મુંદરા		(૩)ગની આમદ તરવૈયા
							મો.૭૫૭૩૦૮૬૬૬૩
							(૧)કાસમ ઇબ્રાફીમ તરવૈયામો.૮૪૬૯૬૦૧૧૨૭
							(૨)ખીયારા ૨મજૂ અબ્દુલા તરવૈયામો.૯૧૧૩૯
ર	કુકડસર	22.909701	69.938295	પર૯	વાંકલ માતાનું મંદિર	૩૫૦	પર૭૯૧
							(૩)ગાધ કાસમ ફુસને તરવૈયા
							મો.૯૫૩૭૬ ૫૨૫૨૭
							(૧)કાસમ ઇબ્રાહીમ તરવૈયામો.૮૪૬૯૬૦૧૧૨૭
		22.020452	60.056524	0.5.0			(૨)ખીયારા ૨મજૂ અબ્દુલા તરવૈયા
3	કુવાય પધ્ધર	22.920453	69.956531	૧૬૨	વાંકલ મંદિર,કુવાય	0	મો.૯૧૧૩૯ ૫૨૭૯૧
							(૩)ગાધ કાસમ કુસને તરવૈયા મો.૯૫૩૭૬ ૫૨૫૨૭
					વસઇ જૈન		(૧) કાસમ ઇબ્રાહીમ તરવૈયા
۲	ભદ્રેશ્વર	22.9714769	70.0464063	૪૫૫૨	તીર્થ,ઉચ્ચતર	300	મો.૮૪૬૯૬૦૧૧૨૭
					માધ્ય.શાળા		(૨) ખીયારા ૨મજૂ અબ્દુલા તરવૈયા

							મો.૯૧૧૩૯ ૫૨૭૯૧ (૩)ગાઘ કાસમ ફુસને તરવૈયા મો.૯૫૩૭૬ ૫૨૫૨૭
ų	લુણી	22.9145833	69.8511633	3396	પ્રાથમિકશાળા,	чо	(૧) મામદ હુસેન તરવૈયા મો.૯૯૧૩૨ ૦૩૮૪૪ (૨) સમા રજાક કાસમ તરવૈયા મો.૯૯૭૯૦ ૭૭૧૫૬ (૩) ગની આમદતરવૈયા મો.૭૫૭૩૦ ૮૬૬૬૩
S	શેખડીયા	23.0085295	69.8600037	૯૭૧	પ્રાથમિકશાળા	0	
و	ગોયરસમા	22.9562283	69.814525	७८७	પ્રાથમિક શાળા	0	
د	ઝરપરા	22.8309152	69.63542	હરપર	માધ્યમિક શાળા,	500	
¢	નવીનાળ	22.8309152	63.63542	3400	માધ્યમિક શાળા,પ્રાથમિક શાળા	900	(૧)સામ સફરીઝ કાસમતરવૈયા મો.૭૪૮૫૯ ૩૫૧૦૦ (૨)જસુબ ઇબ્રાહીમતરવૈયા મો.૬૩૫૬૯ ૮૫૮૭૦ (૩)ઇકબાલ આમદતરવૈયા મો.૯૮૭૯૭ ૫૮૦૩૯ (૪)માંજલીયા મામદ રફીક તરવૈયા મો.૮૯૮૦૫ ૩૭૩૯૬

٩0	શીરાચા	22.8741781	69.6315567	૧૮૭૯	પ્રાથમિક શાળા	૭૦	(૧)સામ સફરીઝ કાસમ તરવૈયા મો.૭૪૮૫૯ ૩૫૧૦૦ (૨)જસુબ ઇબ્રાહીમ તરવૈયા મો.૬૩૫૬૯ ૮૫૮૭૦ (૩)ઇકબાલ આમદ તરવૈયા મો.૯૮૭૯૭ ૫૮૦૩૯ (૪)માંજલીયા મામદ રફીક તરવૈયા મો.૮૯૮૦૫ ૩૭૩૯૬
૧૧	ટુંડા	22.8800018	69.5829467	૧૨૪૭૧	પ્રાથમિક શાળા	0	(૧)સામ સફરીઝ કાસમ તરવૈયા મો.૭૪૮૫૯૩૫૧૦૦ (૨)જસુબ ઇબ્રાહીમ તરવૈયા મો.૬૩૫૬૯૮૫૮૭૦ (૩)ઇકબાલ આમદ તરવૈયા મો.૯૮૭૯૭ ૫૮૦૩૯ (૪)માંજલીયા મામદ રફીક તરવૈયા મો.૮૯૮૦૫૩૭૩૯૬
१२	મોટા કાંડાગરા	22.8427815	69.5311513	४४५१	પ્રાથમિક શાળા,માધ્યમિક શાળા	0	(૧)સામ સફરીઝ કાસમ તરવૈયા મો.૭૪૮૫૯૩૫૧૦૦ (૨)જસુબ ઇબ્રાહીમ તરવૈયા મો.૬૩૫૬૯૮૫૮૭૦ (૩)ઇકબાલ આમદ તરવૈયા મો.૯૮૭૯૭ ૫૮૦૩૯ (૪)માંજલીયા મામદ રફીક તરવૈયા મો.૮૯૮૦૫૩૭૩૯૬

٩3	ભોપા વાંઢ	22.8667683	69.631435	૨૫૦	મોટીખાખર હ્રાઇસ્કુલ	રપ૦	(૧)સામ સફરીઝ કાસમ તરવૈયા મો.૭૪૮૫૯૩૫૧૦૦ (૨)જસુબ ઇબ્રાહીમ તરવૈયા મો.૬૩૫૬૯૮૫૮૭૦ (૩)ઇકબાલ આમદ તરવૈયા મો.૯૮૭૯૭ ૫૮૦૩૯ (૪)માંજલીયા મામદ રફીક તરવૈયા મો.૮૯૮૦૫૩૭૩૯૬
٩४	ધ્રબ	22.8390459	69.6882654	३२८१	પ્રાથમિક શાળા	0	(૧)સામ સફરીઝ કાસમ તરવૈયા મો.૭૪૮૫૯ ૩૫૧૦૦ (૨)જસુબ ઇબ્રાહીમ તરવૈયા મો.૬૩૫૬૯ ૮૫૮૭૦ (૩) ઇકબાલ આમદ તરવૈયા મો.૯૮૭૯૭ ૫૮૦૩૯ (૪) માંજલીયા મામદ રફીક તરવૈયા મો.૮૯૮૦૫ ૩૭૩૯૬
૧૫	<i>હ</i> મીરામોરા	22.9699101	69.9728895	٩٥٥	વડાલાપ્રાથમિક શાળા	900	(૧)કાસમ ઇબ્રાહીમતરવૈયા મો.૮૪૬૯૬ ૦૧૧૨૭ (૨)ખીયારા રમજૂ અબ્દુલા તરવૈયા મો.૯૧૧૩૯ ૫૨૭૯૧ (૩)ગાધ કાસમ હુસને તરવૈયા મો.૯૫૩૭૬ ૫૨૫૨૭

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દરિયાકાંઠાના નીચાણવાળા વિસ્તારના અક્ષાંશ અને રેખાંશની માહિતીદર્શાવતુ પત્રક, માંડવી - કચ્છ

અ.નં.	ગામનુનામ	વસ્તી	અક્ષાંશ	રેખાંશ	આશ્રયસ્થાનનીવિગત	કેટલા રૂમ	કેટલીવ્ચકિત સમાઇ શકે	બચાવ ટુકડીના ગામોની માહિતી
						છે	છે	
٩	ર	3	۲	ч	ç	ى	۷	Ć
٩	ગુંદીયાળી	53 O.O	૨૨/૮૩૬૫૦૭૭	5 ८/४९ ८८४८४३	પ્રાથમિક શાળા	૧૫	٩٥٥	(૧)શ્રી ખેતશી માણશી રવિયા (તલાટીશ્રી)મો.નં.૮૨૦૦૫૯૯૮૬૬૨. (૨)શ્રી પઠાણ રજાક હસણ (સરપંચશ્રી) (૩)શ્રી યાકુબ તૈયબભુસર,તરવૈયા મો.૯૮૨૫૩૦ ૮૭૩૨૪. (૪)શ્રી વિદંલરાજ રમેશચંદ્ર પોલીસ કોન્સ્ટેબલ, મરીન પોલીસ સ્ટેશન માંડવી ૯૯૭૪૨ ૪૦૧૯૭
ર	મોઢવા	¢03	૨૨/૭૮૯૪૬૧૫૦૮૨	ક૯ ∕ ૪૩૯૨૪૫૧૬૪૩	પ્રાથમિક શાળા 7 ધ્રબુડી તિર્થધામ	¥	чо	(૧)શ્રી ખેતશી માણશી રવિયા (તલાટીશ્રી)મો.નં.૮૨૦૦૫ ૯૯૮૬૬૨.શ્રી પઠાણ રજાક હસણ (સરપંચશ્રી) (૨)શ્રી દિનેશકુમાર માનજીભાઈ પોલીસ કોન્સ્ટેબલ, મરીન પોલીસ સ્ટેશન માંડવી મો: ૯૭૨૩૩ ૩૩૬૭૬

3	ત્રગડી	१२३८	૨૨/૮૨૫૮૬૦૯	६७ ४७९७२४०	પ્રાથમિક શાળા ∕કોમ્યુનીટી	ć	150	૧.શ્રી એચ.જી.પટેલ મો.નં.૯૯૭૮૭ ૬૫૦૦૫ (તલાટીશ્રી) ૨.જાડેજા બાઈરાજબા લખુભા મો.૯૭૧૨૫ ૯૧૩૬૨(સરપંચશ્રી) ૩.શ્રી ઉદિતભાઈ સુરેશભાઈ પોલીસ કોન્સ્ટેબલ, માંડવી શહેર પોલીસ સ્ટેશન મો: ૯૮૯૮૨ ૭૨૯૦૭
×	કાઠડા	२८४८	२२/८४३४०७७७	<i>६९</i> / ५७९७९९३३	પ્રાથમિક શાળા ⁄કોમ્યુનીટી હોલ⁄સોનલધામ	૧૫	500	૧.ગઢવી ભારમલ લખમણ(સરપંચશ્રી) ,૯૫૩ ૭૭ ૯૫૯૭૭ ૨.મંજુલાબેન ગોરસાણીથા (તલાટીશ્રી) મો.નં.૭૫૭૫૮ ૫૩૭૯૮ ૩.શ્રી જુસબ ઓસમાણ લખણ મો.નં. ૮૧૪૧૪ ૨૯૮૨૫ ૪.શ્રી વાઘેર અસગર અબ્દુલા મો.નં.૯૯૦૯૬ ૮૨૮૦૬
ų	લાચજાનાના	¢50	૨૨/૮૫૭૫	56155C6	પ્રાથમિક શાળા ⁄સમાજવાડી	و	૧૫૦	૧.શ્રીઆર.પી.ભીલ (તલાટીશ્રી) મો.નં.૯૪૨૮૦ ૮૨૮૨૯ ૨.શ્રી વીરમ ડાયા ગઢવી (સરપંચશ્રી) મો.નં.૯૮૨૫૦ ૮૨૭૩૨ ૩. શ્રી હ્રાજીમામદભુસર મો.નં. ૯૨૨૭૪૩૬૪. વાઘેર કરીમઅલી મો.૯૭૧૨૦ ૩૩૯૫૫
S	પાંચોટીયા	૭૧૧	₹₹/८ 5 3 \$	६७/९७ ८७	પ્રાથમિક શાળા ⁄કોમ્યુનીટી હ્રેલ/સમાજવાડી	ć	600	૧.શ્રીઆર.પી.ભીલ (તલાટીશ્રી) મો.નં.૯૪૨૮૦ ૮૨૮૨૯ ૨.ગઢવી સાવિત્રીબેન સામંત (સરપંચશ્રી) મો.નં.૯૮૭૯૭ ૧૫૪૧૭ ૩.શ્રી અશોકભાઈ રામાભાઈ પોલીસ કોન્સ્ટેબલ, માંડવી શહેર. મો:૯૭૨૭૫ ૦૫૮૬૩

و	ભાડા	٢٥٤	૨૨/૮૫૨૬	56/303 S	પ્રાથમિક શાળા ∕સમાજવાડી	و	૧૫૦	૧.શ્રીઆર.પી.ભીલ (તલાટીશ્રી) મો.નં.૯૪૨૮૦ ૮૨૮૨૯ ૨.શ્રી ગઢવી વરજાંગરામ મો.નં.૯૮૭૯૯ ૭૦૮૫૭
د	બાંભડાઇ	૭૬૫	૨૨/૮૩૩૧૭૯	૬૯/૩૪૬૩૫૮	પ્રાથમિક શાળા ∕ કોમ્યુનીટી હોલ	ų	100	૧.શ્રીમોહમદશકુર એ.બેર્ચા (તલાટીશ્રી) મો.નં.૮૮૬૬૧ ૪૫૯૨૩ ૨.શ્રી સંધાર નુરબાઈનાથા (સરપંચશ્રી) મો.નં.૯૮૨૫૭ ૮૫૫૩૦
¢	મસ્કા	૫૬૧૭	२२/८३५९७४८	5¢/3 0 30X5X	પ્રાથમિક શાળા ૮ઠાઇસ્કુલ૮રાજગોર સમાજવાડી	٩२	100	૧.કિર્તીભાઇ બી.ગોર(સરપંચશ્રી) ૨.શ્રી દસરથભાઈ તખતરામપોલીસ કોન્સ્ટેબલ, મરીન પોલીસ સ્ટેશન માંડવી મો:૭૩૫૯૬ ૬૮૩૬૩ ૩.શ્રી મઢિપાલસિંહ અરજણસિંહ પોલીસ કોન્સ્ટેબલ, મરીન પોલીસ સ્ટેશન માંડવી મો:૮૭૫૮૯ ૪૯૧૭૧ ૪.જુસબ ઓસમાણ લખણ તરવૈયા, મો:૮૧૪૧૪૨૯૮૨૫
٩٥	નાનાભાડીયા	४३१८	₹₹/C3003 % C	<u> ६७७४८६७०४८</u>	પ્રાથમિક શાળા ⁄ હ્રાઇસ્કુલ⁄ કોમ્યુનીટી હ્રોલ	રપ	600	૧.ઓસમાણભાઇ લંધા મોઃ ૯૯૨૪૩ ૦૭૨૨૪ ૨.કાનજીભાઇ પિત્રોડામોઃ ૯૨૬૫૭ ૧૪૪૬૧ ૩.શ્રીઅશોકભાઈ રામાભાઈ પોલીસ કોન્સ્ટેબલ, માંડવી શહેર પોલીસ સ્ટેશન મોઃ૯૭૨૭૫ ૦૫૮૬૩

٩٩	બાડા	૨૭૧૯	૨૨/૯૦૩૦૦૦૧૦૫	<u></u> इ८/१४६०७४६०८	પ્રાથમિક શાળા ⁄કોમ્યુનીટી હેલ/વિપશ્યના કેન્દ્ર/જૈન મહાજન વાડી	૩૫	300	૧.જકરીયાઅયુબ,મો:૯૯૭૮૮૭૪૯૭૫ ૨.ક્રોલી હરેશ જાકુ, મો:૯૯૭૮૭૩૭૦૬૩ ૩.કોલી વીરજી બુઢા,મો:૯૯૨૫૧ ૬૯૬૭૪ ૪.ભાવેશ પચાણ ગઢવી,મો:૯૯૦૯૭૨૮૧૩૨
૧૨	મોટાસલાથા	૮૫૦૦	₹₹/८ <u>₹</u> ₹093	૬૯/૩૫૬૪૯૯	૧.સરકારી વિજ્ઞાન કોલેજ, માંડવી ર.એસ.વી.આર્ટસ એન્ડ કોમર્સ કોલેજ, માંડવી	30	300	૧.શ્રી ઉદિતભાઈ સુરેશભાઈ પોલીસ કોન્સ્ટેબલ, માંડવી શહેર પોલીસ સ્ટેશન ૯૮૯૮૨ ૭૨૯૦૭ ૨.શ્રી અશોકભાઈ રામાભાઈ પોલીસ કોન્સ્ટેબલ, માંડવી શહેર પોલીસ સ્ટેશન મો: ૯૭૨૭૫ ૦૫૮૬૩
٩3	માંડવી	૫૧૩૭૬	£5\C\$3809	૬૯/૩૪૨૮૭૫	૧.સરકારી વિજ્ઞાન કોલેજ, માંડવી ર.એસ.વી.આર્ટસ એન્ડ કોમર્સ કોલેજ, માંડવી	30	300	૧.શ્રીપાલુભાઈ દેવાંગભાઈ પોલીસ કોન્સ્ટેબલ, માંડવી શહેર પોલીસ સ્ટેશન મોઃ ૯૭૧૨૧ ૭૭૩૯૦ ૨.શ્રી સંજયકુમાર ગોવિંદભાઈ [,] પોલીસ કોન્સ્ટેબલ, માંડવી શહેર પોલીસ સ્ટેશન મોઃ ૯૬૮૭૩ ૧૨૬૩૩

Gandhidham TDO- 9409429986,7567013776

			ગાં	ધીધામ તાલુકાની કાંઠાળ/આગરીયા વિસ્ત	તારની માહિતી				
	ગાંધીધામ તાલુકો								
ક્રમ	દરિયાઈ વિસ્તારની	ગામથીદરીયાનું	ગામની	આશ્રય સ્થળનું નામ	Lattitude	Longitude	બચાવ ટુકડીઓ		
	નજીકના ગામો	અંતર(ક્રિમી)	વસતિ						
1	2	3	4	5	6	7	8		
٩	કિડાણા	0.500	૭૦	૧) પં.પ્રા.શાળા ૨) કુમારશાળા	23.033132	70.109712	૧) નવિનભાઇ એન,ઝરૂ ૨) ધનજીભાઇ બી.ઝરૂ		
ર	ભારાપર	0.500	૫૦	૧) ગાયત્રી સોસાયટી પં પ્રા. શાળા	23.00715	70.100908	૧) રોહિત ઝરૂ ૨) માલશીભાઇ આહિર		
3	મિઠિ રોહર	2	१५०	૧) માધ્યામીક શાળા ૨) પ.પ્રા.કુમાર શાળા ૩) પં.પ્રા.કન્યા શાળા	23.097847	70.19087	૧) અબ્દુ લશકુર માંજોઠી ૨) ઇસમાઇલ સોઢા		
۲	ખારિ રોહર	2	૧૨૫	૧)પ.પ્રા.કુમારશાળા ૨) પ.પ્રા.કન્યા શાળા	22.074136	70.18775	૧) સદામહુસેન લાડકા ૨) ૨વીભાઇ બડીયા		
ų	ચુડવા	0.750	૧ ૩૦	૧)જવાહરનગર પ્રાશાળા ૨)૫.પ્રા.શાળા	23.124896	70.213035	૧) અબ્દુલ શકુર માંજોઠી ૨) ઇસ્માઇલ સોઢા		
ç	પડાણા	1	03	૧) પં.પ્રા.શાળા ૨)જખડાડા સાર્વજનીક હ્રોલ	23.071174	70.135386	૧) ધનજી એન.ઠુંબઇ ૨) દેવજી આર.જરૂ		
٩	કંડલા	3	૨૫૦૦	૧) સી.જી.ગીદવાણી હાઇસ્કુલ ૨) સરકારી હાઇસ્કુલ સંસ્કારનગર ૩) મૈત્રી સ્કુલ આદિપુર ૪) શ્રીસરસ્વતી વિધ્યાલય ભારતનગર	23.03	70.22	૧) આદમ નુરમામદ ટાંક ૨) બબાભાઇ ઢલુભાઇલાડક		

<u>Abdasa</u> TDO - 9313847626

			અંતરીયાળ	વિસ્તારમાં આવેલ ગામો/ તથ	ા નીચાણ વાળા (વેસ્તારોની માહિતી			
	અબડાસા તાલુકો								
ક્રમ	દરિયાઈ વિસ્તારની નજીકના ગામો	ગામથી દરીયાનું અંતર(કિમી)	ગામની વસતિ	આશ્રય સ્થળનું નામ	Lattitude	Longitude	બચાવ ટુકડીઓ		
1	2	3	4	5	6	7	8		
				જખૌ પ્રા.શાળા			સરપંચશ્રી તથા તલાટીશ્રીને બચાવ ટુકડીઓ માટે ટીમ બનાવવા અત્રેથી સૂચના આપવામાં		
٩	જખૌ-સોલ્ટ	0.500	૨૨૯૫	ઓધવરામ ધરમશાળા	23.239641	68.607141	આવેલ છે.		
ર	નિમાનિ વાંધ	0.500	૪૫	ચરોપડી પ્રા. શાળા	23.3061098	68.6794203	!!		
3	પિંગ્લેશ્વર મંદિર	2	૪૫	રાપરગઢ પ્રા. શાળા	23.083234	68.807694	!!		
۲	ચચાઇ	2	૫૯૭	સાંધાણ પ્રા.શાળા ભોદેસરપ્રા.શાળા	22.970089	68.993912	!!		
પ	મોઠડિ	0.750	૧૧૦	ચરોપડી મોટી પ્રા.શાળા	23.345993	68.68374	!!		
מט	ભારાવાંધ	1	२८५	ચરોપડી મોટી પ્રા. શાળા	23.347047	68.694698	!!		

و	આશિરા વાંધ	3	૫૯૫	જખૌપ્રા. શાળા જખૌ મદ્રેશા	23.220481	68.658687	!!
د	દરાડ વાંધ	3	૧૨૫	સેન્ટ ઝેવિયર્સ	23.185130	68.759573	!!
Ċ	વાલાવારિ વાંધ	0.500	٥٥	એ.બી.જી.સિમેન્ટ	23.405911	68.58375	!!

<u>Bhuj</u> TDO – 8511975019,7567013588

		નીચાણવાળા	વિસ્તારોમાં આવેલ ગામોની માઠીતી દર્શાવતી પત્ર	રક					
	ભુજ તાલુકો								
ક્રમ	દરિયાઈ વિસ્તારની નજીકના ગામો	ગામની વસતિ	આશ્રય સ્થળનું નામ	Lattitude	Longitude				
1	2	4	5	6	7				
٩	ભુજોડિ	430	ભોજરડો યકરવા પર ઠંગામી	24.076650	69.539480				
ર	ઉડાઇ			24.076650	69.539480				
3	લખબો	રહક		24.076650	69.539480				
۲	જરમારિ વાંધ			24.076650	69.539480				
પ	લુના	૪૩૭૫	ઉઠંગડી ઠંગામી	23.4246	69.1507				
S	ચાચલા		ગુગરહુઈ વંગ	23.4113	69.1224				
و	બુરકલ	१०३ २	વજીરા વાંઢ	23.4113	69.1224				

د	ભિરન્ડીયારા	૩ ૨૫ ૬	ખાવડા રોડ પર ઠંગામી	23.6630	69.7059
e	સરગુ			23.4516	69.4359
٩٥	રેલડી બન્નિ	૧૧૫૪		23.6630	69.7059
૧૧	લાયવારા			23.6630	69.7059
૧૨	મિથડી	२२४२	ગોરેવલી શાંતીનગર	23.7174	69.4904
٩3	સરડ	૧૧૫૩	હ્રોડકા ઠીકરીયાડો	23.3907	69.2919
ঀ४	સેરવો	ક૧૭	હેડ્કા	23.3957	69.3911
૧૫	મિસરિયાડ		ભોજરડો રોડ	23.64282	69.77635
٩૬	મડન	१३८५		23.64282	69.77635
٩७	નેરી			23.64282	69.77635
٩८	ભિતર નાના	१३४८	ઉઠંગડી ઠંગામી	23.13625	69.18643
૧૯	ભિતર મોટ	୯୯୨		23.7464	69.3712
50	ઉધમો	१૯४	ધોરડો રોડ	23.7535	69.5096
૨૧	ખારોડ	508	જવાહર નગર	23.4404	70.0607

ર ર	લાખરવાંધ	૫૬૦	જગતપર	23.2246	70.0743
૨૩	બેરડ	٢٥3	ધ્રગ લોડાઇ	23.4929	69.9312
२४	કુલાચ	કર		23.4376	68.7502
રપ	સોલરિસ કેમટેક	૫૫૦	ખાવડા કોલોની	23.50.00	69.4157
,52	આર્ચિન કેમિકલ ઇંદશ્રિ	૪૫૦	હાજીપીર	23.4927	69.1412
૨૭	એગ્રોસેલ	૫૫૫	ધોરડો કોમ્યુનીટી હોલ અને સ્કુલ	23.4802	69.2722
૨૮	સત્ચેસ કેમટેક	૫૫૦	હ્યજીપીર	23.5532	69.0921

<u>Rapar</u> TDO – 78742 80009

	તાલુકામાં સમાવિષ્ટ નીચાણવાળા,આંતરીયાળ ગામોની વિગત દર્શાવતું પત્રક									
	રાપર તાલુકો									
ક્રમ	દરિયાઈ વિસ્તારની નજીકના ગામો	ગામની વસતિ	આશ્રય સ્થળનું નામ	Lattitude	Longitude	બચાવ ટુકડીઓ				
٩	લોદ્રાણી	3629	કોમ્યુનીટી હ્રેલ/પ્રાથમિક શાળા	23.8901	70.6306	સરપંચશ્રી તથા તલાટીઓને બચાવ ટ્રકડીઓને માટે તીમ બનાવવા અત્રેથી સુચના આપવામાં આવે છે.બચાવ કામગીરી માટે ગામે તરવૈયા,જી.સી.બી.લોડર,ટ્રેકટર જેવા સાધનો વાવાઝોડા તથા પુરના સમયે ગામે તૈયાર રાખવા સુચના આપવામાં આવેલ છે.				
ર	બેલા	४२८४	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.8741	70.8045	!!				
3	મૈવાણા	રપ૭૭	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.8277	70.8514	!!				
لا	નાંદા	૫૨૨	કોમ્યુનીટી હ્રેલ⁄પ્રાથમિક શાળા	23.5461	70.0913	!!				
પ	સુખપર	૧૨૫૧	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.4899	70.0799	!!				
S	વરણું	૭૨૧	કોમ્યુનીટી હોલ⁄પ્રાથમિક શાળા	23.4685	70.0200	!!				

ٯ	સણવા	૫૬૦૧	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.6143	70.9653	!!
د	કુલપરા	૫૯૬	પ્રાથમિક શાળા	23.3172	70.7996	11
૯	માણાબા	٩૬૬८	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.2868	70.7584	11
૧૦	ક્રતેહગઢ	૫૯૧૩	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.7023	70.8461	!!
૧૧	માંજુવાસ	૨૨૫૩	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.6921	70.8892	!!
૧૨	નંદાસર	૨૨૭૯	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.6061	70.8411	11
٩3	સુવઈ	૨૨૫૩	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.6143	70.4927	11
ঀ४	ખેંગારપર	१४८८	કોમ્યુનીટી હ્રેલ∕પ્રાથમિક શાળા	23.2874	70.4863	!!

<u>Lakhpat</u> TDO – 93138 47623

	તાલુકામાં દરિયાકિનારા તથા નીયાણવાળા વિસ્તારના ગામોની વિગતો											
	લખપત તાલુકો											
ક્રમ	દરિયાઈ વિસ્તારની નજીકના ગામો	ગામની વસતિ	આશ્રય સ્થળનું નામ	Lattitude	Longitude	સરપંચશ્રી નું નામ	તલાટીનું નામ	ગામના ત્યરવૈયાનું નામ	આપત્તિ સમયે ઉપયોગી થાય તેવા ગ્રામજનો ના નામ			
٩	નારાયણ સરોવર	૧૧૪૫	અન્નક્ષેત્ર નારાયણ સરોવરનું બિલ્ડિંગ	23.676781	68.538326			અસ્ગર સુલેમાન	આઇ.એમ.કુંભાર ,એ.આઇ.ભડાઅવા એ.એમ.જોષી			
Ŷ	ગુહરમોટી	૧૯૫	પ્રા.શાળા ગુહર મોટી	23.6206433	68.5107254			અસ્ગર સુલેમાન	મુબારક અલાના બારાગ મીઠા આલાના			
3	કનોજ	૩૧૫	પ્રા.શાળા કનોજ	23.6780338	68.5704428	લીલાબા સુરૂભા જાડેજા	જસોદા ડી.પટેલ	ઉમર આમદ તુર્ક હાજીરમધા ન તુર્ક	મુબારક અલાના બારામીઠા આલાના			
8	શેહ	٩८٥	પ્રા.શા ળા શેઠ	23.6655891	68.5856295			જુસબ અમીન જત ઓસમાણ અમીન જત	ઠમધા ઠસણ જત			
પ	રોડાસર	૫૧૩	પ્રા.શાળા રોડાસર	23.5751646	68.5052205	જત રેણપબાઇ ઇસ્માઇલ	ડી.એન.ચાવ ડા	ઉમર સિદિક	અલી જુસબ જત			

S	લક્કિ		પ્રા.શાલા લક્કી	23.5751646	68.5052205			જયાધર ઇબ્રાહીમ મામદ	હમધા સિધિક
ٯ	તહેરા	१८०	પ્રા.શાળા તહેરા	23.6008294	68.5027352			ભુરા સબર	આમધ ભુરા જત
۷	ગુનાઉ	3 80	પ્રા.શાળા ગુનાઉ	23.42439935	68.5554804			ગુલમામદ હજી મામદ જત	સિધિકભાઇ જત
Ŀ	મોરી	ঀ૪৩	પ્રા.શાળા મોરી	23.551019	68.5515954			મુબારક ભેજાર	મુબારક ગુલમામદ
૧૦	પીપર	८८१	પ્રા.શાળા પીપર	23.5218703	68.52234	જત આછતબાઇ ભુલા	પી.જે.રાઠોડ	જત મીઠન સાલે મામદ	વિપુલસિંહ સોઢા
૧૧	ભુટાઉ		પ્રા.શાલા ભુટાઉ કમ્યુનીટી હોલ	23.5263977	68.5013686			જત મીઠન સાલે મામદ	વિપુલસિંહ સોઢા
૧૨	આંધારવાંઢ		પ્રા.શાલા ભુટાઉ કમ્યુનીટી હોલ	23.5145786	68.5071517			જત મીઠન સાલે મામદ	વિપુલસિંહ સોઢા
૧૩	મેડી		પ્રા.શાળા મેડી	23.4806915	68.5244133			જત મીઠન સાલે મામદ	વિપુલસિંહ સોઢા
ঀ४	ગુગરીયાણા નાના	583	ફોરેસ્ટ કોમ્યુની ટી હોલ	23.5693663	68.5055065			રમધાન ભુલા મુસા મખાણ	જત હસન મામદ
૧૫	ગુગરીયાણા મોટા		પ્રા.શાળા ગુગરીયા	23.5693663	68.5055065			જત ૨મધાન ભુલા	જત હસન મામદ

			ણા મોટા						
٩૬	ખીરસરા	૧૧૪	પ્રા.શાળા તથા	23.4910758	68.5312557	_		પીરજાદા વલીછા	પીરજાદા કરીમછા
			કોમ્યુની						
			ટી હ્રેલ						
৭৩	છેરમોટી	૫૮૮	પ્રા.શાળા	23.7630093	68.6487901	પડ્યાર	બી.એમ.	સુલ્તાજી	રાઠોડ અભયરાજસિંહ
			તથા			ઇસ્માઇલ આમદ	કાજ	સ્વરુપસિંહ	સાલુજી
			કોમ્યુની						
			ટી હ્રોલ						
٩८	છેરનાની	૧૩૫૭	પ્રા.શાળા	23.7897544	68.6536452			કોલી આરબ	પડથાર આચાર મામદ
			તથા					ભરાયા	
			કોમ્યુની						
			ટી હ્રોલ						
٩૯	શિણાપર	୪୬୯	પ્રા.શાળા	23.7846482	68.6813404			કોલી મામધ	કોલી સુમાર રાયમલ
			તથા					કાસમ	
			કોમ્યુની					કોલી લાલજી	
			ટી હ્રોલ					જુમા	
50	કાનેર	२८२	પ્રા.શાળા	23.7918833	68.7554203	સોઢા રમધાન	એચ.ડી.ડાભી	રાઠોડ મોહન	રાઠોડ પાબુસિંહ ભેરજી
			તથા			ઇસ્માઇલ			
			કોમ્યુની						
			ટી હ્રેલ						
૨૧	લખપત	૫૬૬	ગુરુદ્વારા	23.823700	68.779800			સોઢા અબ્દુલ	સોઢા કુમા ઓસમાણ
			લખપત					ઇબ્રાહિમ	
રર	નરા	૨૨૬૫	નરા	23.6508237	69.1171574	સરબજીતકૌર	એચ.ટી.ડામો	-	જુગરાજસિંઘ બી.સરદાર
			પ્રા.શાળા			જુગરાજસિંગ	ર		
						જટશીખ			

૨૩	સાન્ધ્રો વાંઢ	૪૮૫	સાન્ધ્રો	23.6195122	68.7767247	જત ભગાબાઇ	પી.ડી.ડાંગર	જત મીઠાયા	સોઢા ખેતુભા દાંસિંહ
			વાંઢ			ઠારૂભાઇ		કારા	
			પ્રા.શાળા						
૨૪	અકરી	૧૦૨	અકરી	23.386818	68.6077953	કોલી લખમીબેન	કુ.જે એસ	-	દાઉદ જત
			પ્રા.શાળા			દેવજી	વ્યાસ		
રપ	બૈયાવો	٩ ४ ३	બૈયાવો	23.7498183	68.7231604	હરીજન	વર્ષાબેન	ગુમાનસિંહ	ખેતાજી કાનજી
			પ્રા.શાળા			સવાભાઇ નાથા	ગોફિલ	સામતજી	લાખયા૨જી નેતાજી
રક	કૈયારી	२९७	કૈયારી	23.687299	686255407	સોઢા જામકોરબા	કે.ડી.પટેલ	સોઢા	સોઢા નરપતસિંહ
			પ્રા.શાળા			ચમનસિંહ		નરપતસિંહ	
૨૭	કપુરાશી	ঀ৩૬४४	કપુરાશી	23.7054543	68.638395	ગઢવી પ્રેમદાન		રમેશ જોમાજી	પિયુષ ટેકચંદ
			પ્રા.શાળા			ગોવિંદદાન		વિરમાજી	
૨૮	ગોધાતળ	୯୨	ગોધાતડ	23.6419434	68.6312054	સોઢા તારાબા	ટી.જે.જોષી	-	સોઢા સુરતાજી જે.
			પ્રા.શાળા			અનુપસિંહ			

<u>Anjar</u> TDO – 95370 83186,75670 13775

			તાલુકાની ક		વિસ્તારની માહિતી	l
			1	અંજાર તાલુ	,કો	- T
ક્રમ	દરિયાઈ વિસ્તારની નજીકના ગામો	ગામની વસતિ	આશ્રયસ્થળ નું નામ	Lattitude	Longitude	બચાવ ટ્રકડીઓ
٩	તુણા	૫૨૧૪	માધ્યામિક શાળા,તુણા	23.1135	70.0277	૧) જખુ પંચાણ બાંભણીયા, ૨) આમદઆદમરાજા ૩) દાઉદ જુસબ, ૪)લાખુ સામંતઆહીર ૫) પ્રેમજી બીજલ કોલી
ર	વંડી	१२३४	પ્રાથમિક શાળા,વંડી	23.1135	70.0277	૧) અબ્દુલ જુમા ગાંધ, ૨) અથુબ આમદ ૩) હુશેન આમદ સાથચા, ૪)ભીલાલ મામદ ૫) અલીઅ ખુભટી
3	રામપર	૧૨૬૨	પ્રાથમિક શાળા,રામપર	23.1135	70.0277	૧) જુનશ પચાણ બાંભણીચા,૨) ભલા સુકમાર જુણેજા, ૩) સીધી કસાલે જુણેજા ૪) ઇશા અબ્દુલ જુણેજા ૫) સબીર અકબર જુણેજા
8	સાંધડ	୪୧୬୯	પ્રાથમિકશાળા,સાંધડ	23.112101	70.023797	૧) દાઉદ જુસબ, ૨) લાખુ સામંત આઠીર ૩) ઠુશેન આમદ સાથયા, ૪) ભીલાલ મામદ સાથયા, ૫) પ્રેમજી બીજલ કોલી
પ	વિરા	૧૭૮૭	પ્રાથમિક શાળા,વીરા	23.1135	70.0277	૧) સીધી કસાલે જુણેજા, ૨) ઉશા અબ્દુલ જુણેજા, ૩) સબીર અક્બર જુણેજા ૪) લાખુ સામંત આહીર

<u>Nakhatrana</u> TDO – 90333 73612

અંતરીયાળ વિસ્તારમાં આવેલ ગામો/કાંઠાળ ગામો તથા નીયાણ વાળાવિસ્તારોની યાદી તા.નખત્રાણા

									બચાવ ટુ	કડીઓ		
ક્રમ	સિંચાઇ યોજના નું નામ	ગામ નું નામ	Lattitude	Longitude	ગામ નિ વસ્તી	કુદરતી આફત ના સંગોજોગોમાં ગામ ના આશ્રય સ્થાનો ના નામ	સરપંચશ્રીનું નામ	તલાટીમંત્રીશ્રીનું નામ	મધ્યાન ભોજન સંચાલકનું નામ	ગામના તરવૈયા નું નામ	ગામમાં ઉપલબ્ધ જે.સી.બી./ટ્રે ક્ટર ની સંખ્યા તથા માલિક નું નામ	આપતી સમચે ઉપયોગી થાથ તેવા ગ્રામ જનોના નામ
٩		નિરોણા	23.4655837	69.523932	૫૭૧૦	કુમાર પ્રા.શાળા ,કન્યા પ્રા.શાળા ,જ્ઞાતિ વાઈસ સમાજ વાડી	ભાનુસાલી લક્ષ્મીબેન ૯૯૭૯૩ ૨૨૫૭૭	પ્રજાપતિભાઇ ૮૯૮૦૦ ૭૪૯૦૨	નઝાર ખેતસી વેરશી ૯૪૨૭૭ ૬૭૧૧૮	કુંભાર સુલેમાન ૯૪૨૯૮ ૨૨૦૫૪	નઝાર ખેંગાર ગોપાલ ૯૭૨૭૮ ૬૩૦૦૫	૧.રાજેશ ભાઈ ૯૯૭૯૩ રપ૨૭૭૨ .મુસાભાઈ ૯૯૦૯૭૨૫૫૫૭ ૩.હી૨જીભાઈ ૯૪૨૭૮ ૧૮૪૦૦
ર	નિરોણા	બિબર	23.481682	69.462979	१८५०	પ્રા.શાળા, બિબર	ઠમીરજી જાડેજા ૯૪૨૯૮ ૨૨૨૮૧	એમ.એલ.ઠાકોર ૯૬૬૨૫ ૫૧૩૮૩	જાડેજા ગીતાબા અનિરુદ્ધ સિંહ ૯૬૮૭૭ ૮૨૫૦૩	દેવુભા પતુભા જાડેજા	ગજુભા હૃમીરજી જાડેજા ૯૪૨૬૯ ૬૬૫૮૧	૧.ગજુભા જાડેજા ૯૪૨૬૯ ૬૬૫૮૧
3		પાલનપુર	23.4522547	69.5769946	४४७	ક્રોમ્યુનીટી હ્રેલ,પાટીદાર સમાજવાદી	નર્મદા બેનડાચાલાલ પટેલ ૯૪૨૭૫ ૬૬૦૪૦	કે.કે.પટેલ ૯૯૦૯૨૩૪૦૩૭	શામજીભાઈ જોગલ ૯૪૨૮૦ ૩૧૮૪૫	દિનેશ મહેશ્વરી ૯૭૧૨૩ ૦૨૫૨	નટવરલાલ પટેલ ૯૬૦૧૭ ૧૩૪૮૪	૧.ડાહ્યાલાલ ૯૪૨૭૫ ૬૬૦૪૦

×		આમારા	23.538579	69.113516	१९३७	પ્રા.શાળા, કમ્યુનીટી હોલ	લુહાર સીધીક ૯૯૦૯૬ ૮૨૪૩૯ વિલાસબા	બી.આર.ચૌધરી ૯૭૧૪૫ ૬૩૩૬૩ જીએન મહેશ્વરી	સુભાષભાઈ ઠક્કર ૯૭૨૪૫ ૨૨૭૯૯ મંગલસિંહ	કરમશી ભિમજી ૯૩૧૬૯ ૪૮૮૫૦ અશોકસિંહ	શાંતીલાલ ગોવિંદ ૬૩૫૧૧ ૭૨૭૧૩ સોઢા	૧.સોઢા દીલીપસિંહ ૯૫૩ ૭૩ ૨૭૬૪૫
પ		ગોધીયાર	23.451696	69.378346	૭૨૩	' . າເທ	68560 36036	90833 59063	७४२५७ ८७२८७	સોઢા ૯૯૭૯૩ ૩૭૨૫૭	મહેન્દ્રસિંહ ૯૯૦૯૦ ૩૯૦૩૯	૧.સુરસિંહ સોઢા ૯૯૨૫૯ ૬૦૯૭૪
S	ભુખી	ડાડોર	23.4894252	69.3824336	૭૨૫	પ્રા.શાળા, ડાડોર	જોમીબેન ૯૪૨૭૨ ૭૩૯૭૭	એમ.એલ.ઠાકોર ૯૬૬૨૫ ૫૧૩૮૩	સિધિક ઉમર ૭૫૬૭૯ ૯૨૫૯૬	અજીત થેબા ૯૫૧૦૫ ૨૧૪૨૫	ધનજી આચર ૯૪૨૮૮ ૯૬૯૫૦	૧.દાઉદ ઇબ્રાહીમ ૯૭૨૬૪ ૬૮૭૯૭
ٯ		વંગ	23.509811	69.41116	१ ५ ३ २	વંગ પં પ્રા.શાળા	જોમીબેન ૯૪૨૭૨ ૭૩૯૭૭	એમ.એલ.ઠાકોર ૯૬૬૨૫ ૫૧૩૮૩	જમનાબેન વેલજી ૯૪૦૬૭ ૮૮૬૧૫	આયર વેલજી ૯૪૨૯૫ ૬૦૫૦૭	ધનજીવિર મ આચર ૯૪૨૮૮૯૬ ૯૫૦	૧.ગોવિંદ કરશન ૯૪૨૮૩ ૦૭૩૬૬
د		મથલ	23.407945	69.6771967	२ ७३३	ນແທເ	સોઢા ગાયાત્રીબા ૯૫૩ ૭૨ ૨૫૭૧૩	એચ.એમ.પટેલ ૯૪૨૮૮ ૯૮૯૧૧	દિનેશ ગરવા ૯૪૨૮૦ ૮૩૪૨૦	૧.કોળીમામુ ૭૫૯૭૧ ૭૦૨૫૩ ૨.કોળી મહેશ ૯૬૬૨૩ ૮૪૮૩૯	અસ્લમ હુસેન લુહાર ૯૬૦૧૪ ૪૨૭૨૯	૧.લક્ષ્મણભાઈ ૯૭૨૬૬ ૯૦૫૯૩ ૨.ડાચાભાઇ ભાવ્રું ૯૮૭૪૫ ૫૯૪૮૩ ૩.અરવિંદભાઈ ૮૫૧૧૨ ૫૪૧૪૩
Ċ		દેશલપર	23.460589	69.1685613	૧૭૨૩	પ્રાથમિક શાળા ,કોમ્યુનીટી હોલ	મુસાભાઈ હુસેન ૯૭૧૨૨ ૯૬૪૬૯	બી.આર.ચોધરી ૯૭૧૪૫ ૬૬૩૬૩	ચંદનબેન પંડ્યા ૯૪૨૭૨૮૫ ૨૪૩	રમેશ કોળી ૮૬૬૦૧ ૪૩૭૩૬	કરસનભાઇ ૯૭૨૬૯ ૦૬૨૬૬	૧.સોઢા મોઠનસિંઠ

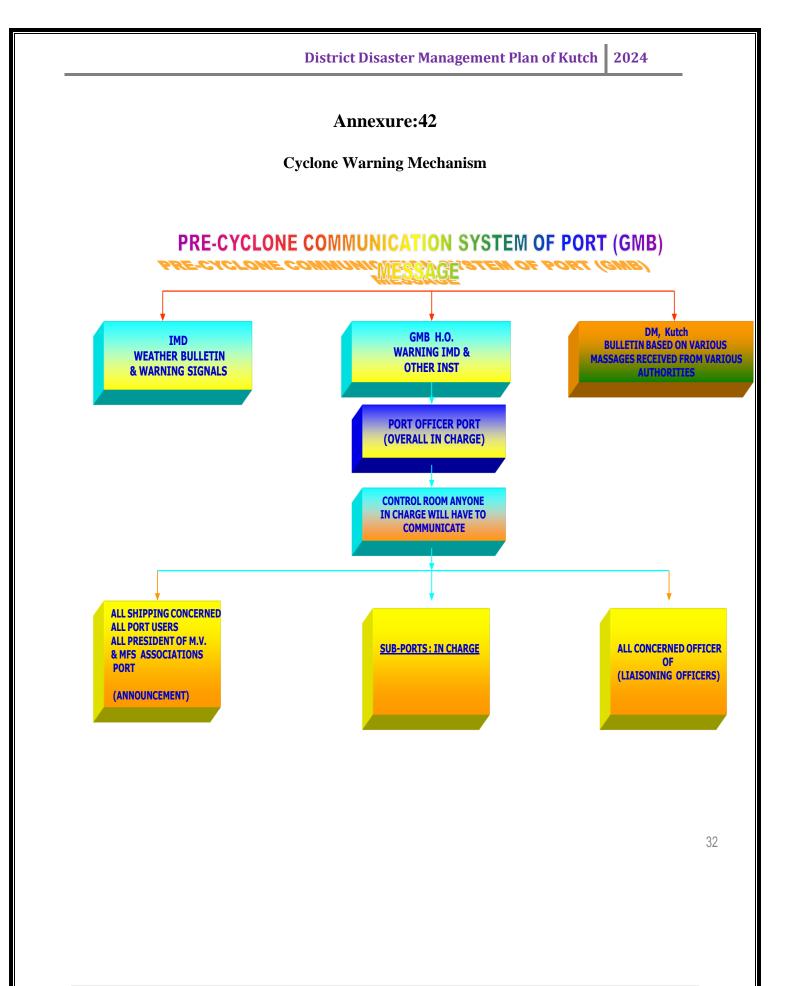
૧૦	<u> જી</u> ંજાય	23.47342	69.199036	૫૦૮	પ્રાથમિક શાળા	હુરબાઈબા કોલી ૯૬૬૨૭ ૦૦૫૬૬	બી.આર.ચૌધરી ૯૭૧૪૫ ૬૩૩૬૩	નરસિંહ પરશોત્તમ પટેલ	સોઢા મામદ ૯૬૮૭૩ ૯૮૭૨૮	પટેલ ઠીરાલાલ ૭૯૮૪૦ ૭૬૭૨૨	૧.પટેલ કીશોર ૯૭૩૭૯ ૭૯૩૯૨
૧૧	ધામાથ	23.1214861	69.5856691	૫૩૫	પ્રાથમિક શાળા	આહીર વિરમાભાઈ કાનાભાઈ ૯૪૨૮૦ ૮૩૫૮૨	ગરોડા ચંદ્રિકાબેન ૮૪૬૯૧ ૪૦૮૦૭	શ્રી અશોકભાઇ ગઢવી		આહીરવિર માભાઈ કાનાભાઈ ૯૪૨૮૦ ૮૩૫૮૨	૧.આહીર વિરમાભાઈ કાનાભાઈ ૯૪૨૮૦ ૮૩૫૮૨
૧૨	લુડબાય	23.598617	69.2194133	૧૨૯૨	પ્રાથમિક શાળા	જત ભસરીયા નગર ૯૫૮૬૨ ૧૪૮૧૨	બી.આર.ચૌધરી ૯૭૧૪૫૬૩૩૬૩	રજિયાખાતું મામદઅલી ૯૫૮૬૬૧૮ ૨૪૯	જત અથુબ ૭૮૭૪૬ ૦૮૯૪૦		૧.જત અયુબ ૭૮૭૪૬૦૮૯૪૦ ૨.સુમરા હાજી ૯૪૨૭૭ ૬૧૬૯૨
٩3	ઉઠંગડી	23.4553446	69.2580729	૧૭૫	પ્રાથમિક શાળા	જત ભસરીયા નગર ૯૫૮૬૨ ૧૪૮૧૨	બી.આર.ચૌધરી ૯૭૧૪૫ ૬૩૩૬૩	ડાહ્યાભાઈ પટેલ ૯૪૨૯૪ ૬૭૪૪૫	જત અયુબ જામસર ૭૮૭૪૬ ૦૮૯૪૦		૧.જત ભાસરિયા નગર ૯૫૮૬૨ ૧૪૮૧૨ ૨. જત ગુલામ ૯૦૯૯૨ ૬૪૬૮૬
٩४	ઢોરો	23.5949702	69.226154	S 50	પ્રાથમિક શાળા	જત ભસરીથા નગર ૯૫૮૬૨ ૧૪૮૧૨	બી.આર.ચૌધરી ૯૭૧૪૫ ૬૩૩૬૩	સમીર ખાનન ૭૦૬૯૨ ૬૮૬૮૨	જત અથુબ જામસર ૭૮૭૪૬૦૮ ૯૪૦		૧.જત નુર મામદ ઈસ્માઈલ ૭૫૬૭૧૩ ૬૮૯૫ ૨.જત મુસ્તફા ૯૪૨૯૮ ૦૮૪૭૩

Annexure: 41

Cyclone Signal

Port signal

PORT STORM WARNING SIGNAL N0.	DAY SIGNAL	NIGHT SIGNAL	MEANING
1		$\left(\begin{array}{c} \\ \\ \\ \\ \\ \end{array} \right)$	DISTANT CAUTIONARY (There is a region of squally weather in which a storm may be forming.)
2		+	DISTANT WARNING (A storm has formed.)
3	$\mathbf{+}$	$\mathbf{\Phi}$	LOCAL CAUTIONARY (The port is threatened by squally weather.)
4		¢	LOCAL WARNING (The port is threatened by a storm but it does not appear that the danger is as yet sufficiently great to justify extreme measures of precaution.)
5	*	¢ •	DANGER (The port will experience severe weather from a cyclone expected to move keeping the port to the left of its track.)
6	•		DANGER (The port will experience severe weather from a cyclone expected to move keeping the port to the right of its track.)
7	¥		DANGER (The port will experience severe weather from a cyclone expected to move over or close to the port.)
8	•	·	GREAT DANGER (The port will experience severe weather from a severe cyclone expected to move keeping the port to the left of its track.)
9	•		GREAT DANGER (The port will experience severe weather from a severe cyclone expected to move keeping the port to the right of its track.)
10		•	GREAT DANGER (The port will experience severe weather from a severe cyclone expected to move over or close to the port.)
11	*	•	FAILURE OF COMMUNICATIONS (Communications with the Meteorological Warning center have broken down and the local officer considers that there is danger of bad weather.)



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Annexure 43

General Terminology Used in Weather Bulletins

(A). Intensity of Rainfall Terminology Used

Sr. No.	Rain in mm"(24 hrs)	Terminology
1	0.1.mm to 2.4 mm"	Very light rain
2	2.5 mm to 7.5 mm"	Light rain
3	7.6 mm to 34.9 mm"	Light to Moderate rain
4	35.0 mm to 64.9 mm"	Moderate rain
5	65.0 mm to 124.9mm"	Heavy rain
6	Exceeding 125 mm"	Very Heavy rain

(B) Special distribution of weather phenomenon

Sr. No.	Percentage Area Covered	Terminology Used
1	1 to 25	Isolated
2	26 to 50	Few Places
3	51 to 75	Many Places
4	76 to 100	At most Places

(C) Emergency Situation

- 1. When water level is rising above the danger of H.F.L
- 2. When intensity of rainfall is above 65 mm /hr
- 3. When breaches are anticipated and may lead to disaster.
- 4. When water levels are rising alarmingly.

(D) Evacuation

Sr. No.	Signal	Activity
1	White Signal	Alert condition
2	Blue Signal	Ready for Evacuation
3	Red Signal	Immediate Evacuation

Annexure:44

Dos and don'ts in various disaster

Cyclone Safety

A cyclone is a storm accompanied by high-speed whistling and howling winds. It brings torrential rains.

Where does a cyclone come from?

A cyclonic storm develops over tropical oceans like the Indian Ocean and Bay of Bengal and the Arabian Sea. Its strong winds blow at great speed, which can be more than 118 kilometers per hour.

What are the visible signs of a cyclone?

When a cyclonic storm approaches, the skies begin to darken accompanied by lightning and thunder and a continuous downpour of rain.

How does a cyclone affect us?

- A cyclone causes heavy floods.
- It uproots electricity supply and telecommunication lines. Power supply shuts down and telephones stop functioning.
- Road and rail movements come to halt because floods damage rail tracks and breach roads. Rail
 movements are also disrupted because of communication failure.
- The inclement weather conditions also disrupt Air services. Seaports stop work due to high winds, heavy rains and poor visibility. Sometimes ships overturn or are washed ashore. The high speed winds bends and plucks out trees and plants.
- A cyclone tears away wall sidings and blows off roofs of houses.
- Houses collapse and people are rendered homeless. In villages kacha houses get blown away. The speeding winds cause loose metal and wooden sheets to fly turning them to potential killers. Broken glass pieces can cause serious injuries.
- The floodwaters can take time to recede.
- The floodwaters can turn the fields salty.
- Bridges, dams and embankments suffer serious damages.
- Floods wash away human beings and animals and make water unfit for drinking. There can be outbreak of diseases like Cholera, Jaundice or Viral fever due to intake of impure water. Water gets contaminated because of floating corpses of animals and human beings and mixing of sewage stored food supplies, gets damaged.

Which areas are exposed to a cyclone in Gujarat?

In Gujarat, the Saurashtra-Kutch region experiences a cyclone. The port towns of Veraval, Porbandar, Jamnagar, Dwarka, Okha, Kandla and Bhavnagar and other minor port towns suffer most.

Does a cyclone follow a particular path?

It is often difficult to predict where a cyclone will strike. When it starts moving from oceans (in Gujarat it is Arabian Sea) towards the land area, a cyclone can change track and hit areas other than those anticipated earlier.

Has any early warning system been evolved for the occurrence of a cyclone?

Yes. In India, the Indian Meteorological Department has developed a four-stage warning system for a cyclone.

How does the system operate?

This warning is about the possibility of a cyclone when a low pressure depression develops in oceans. For Gujarat, the development of such a depression in the Arabian Sea is indicative of a cyclone attack.

The Alert stage

This warning is given 48 hours prior to the time when a cyclone is expected to hit the land.

The Warning stage

This is the stage when a cyclone gets formed. The warning is given 24 hours before the anticipated time of arrival of a cyclone.

Cyclone arrival

This warning is issued 12 hours before a cyclone is due to hit the land. The warning gives information about cyclone and will continue until the winds subside. In sea ports, danger signal are hoisted about the impending cyclone.

From where can people access cyclone storm warnings?

Warnings about storms, their intensity and the likely path they may take are regularly broadcasted by radio and television network continuously until the storm passes over.

What to do before and during a cyclone.

• Have your dwellings checked before a cyclone season starts and carry out whatever repairs that are needed.

- Talk to children and explain about cyclones without scaring them.
- Create storm awareness by discussing effects of a cyclonic storm with family members so that everyone knows what one can and should do in an emergency. This helps to remove fear and anxiety and prepares everyone to respond to emergencies quickly.
- Keep your valuables and documents in containers, which cannot be damaged by water.
- Keep information about your blood group.
- Keep lanterns filled with kerosene, torches and spare batteries. These must be kept in secure places and handy.
- Make plans for people who are either sick, suffer from disabilities, aged and children.
- Store up at least seven-day stock of essential food articles, medicines and water supply.
- Keep blankets and clothes ready for making beds. Also keep cotton bandages and several copies of photographs of family members in case they are needed for identification purposes after the storm.
- Store some wooden boards so that they can be used to cover windows.
- Keep trees and shrubs trimmed. Remove damaged and decayed parts of trees to make them resist wind and reduce the potential for damage. Cut weak branches and make winds blow through.
- All doors, windows and openings should be secured.
- Continue to listen to warning bulletins and keep in touch with local officials. Keep radio sets in working condition. Battery powered radio sets are desirable.
- Evacuate people to places of safety when advised.
- Take steps to protect your assets.
- Store extra drinking water in covered vessels.
- Remain calm.

What one should not do during a Cyclone attack?

- During the storm do not venture out unless advised to evacuate.
- If you have a vehicle and wish to move out of your house, leave early before the onset of a cyclone. It is often best to stay at home
- Avoid remaining on the top floor of dwellings. Stay close to the ground.

Earthquake safety

- Tell the facts about earthquake to your family members
- Construct new buildings with earthquake resistant method and strengthen the old buildings
- Insure your house and family members
- Take the training for first aid and fire fighting
- Do not keep cots near the glass window
- Do not keep heavy and fragile things in the selves
- Do don't hang photo frames, mirrors, or glasses up your bed
- Keep your important documents, some cash and necessary articles ready in a bag
- Get your house insured before the earthquake
- Identify special skills of neighbor (medical, technical) so that it can be utilized in emergency

During Earthquake

- Do not panic
- If already inside, than Stay indoors! Get under a heavy desk or table and hang on to it.
- If fire breaks out, drop on the floor and crawl towards the exist
- If you are out doors during the quake, keep away from buildings, trees and electricity lines. Walk towards open places, in a calm and composed manner.
- If you are driving, quickly but carefully move your car as far out of traffic as possible and stop.
 Do not stop on or under a bridge or overpass or under trees, light posts, power lines, or signs.
 Stay inside the car until shaking stops
- If you are in a school, get under a desk or table and hold on

After the Earthquake

- Do not be afraid of the aftershocks
- Listen to radio-TV and other media for Government Announcement
- Check for injuries to yourself and those around you. Take first aid where you can
- Extinguish fire, if any
- Examine walls, floors, doors, staircases and windows to make sure that the building is not in danger of collapsing
- Do not enter into the unsafe or risky houses or buildings
- Inspect for Gas leaks-If you smell gas or hear blowing or hissing noises, open a window and quickly leave the building. Don't light your kitchen stove if you suspect a gas leak.
- Do not keep telephone lines busy unnecessarily
- Switch off electric lines

Fire safety

Dos

- Buy Fireworks from the licensed shop.
- Keep fireworks in a closed box
- Store crackers away from source of fire or inflammation
- Follow all safety precautions issued with the fire works
- Go to open spaces like playgrounds, fields
- Light them at arm's length using a taper.
- Stand back while lighting the crackers
- Discard used fireworks in a bucket of water
- Keep buckets of water and blankets ready, incase a firebreaks out.
- Wear thick cotton clothes for maximum safety from fire.
- If clothes catch fire, Stop, Drop and Roll
- In case of uncontrolled fire wrap the victim in a blanket, till it stop.

- In case of burns splash tap water (not ice water), the process may be repeated till the burning sensation reduces.
- If fingers or toes are burned, separate them with dry, sterile, non-adhesive dressings.
- Make sure the burn victim is breathing, if breathing has stopped or if the victim's airway is blocked then open the airway and if necessary begin rescue breathing.
- Elevate the burned area and protect it from pressure and friction.
- Cover the area of the burn with a moist sterile bandage, of clean cloth (do not use blanket or towel for healing burns).
- Consult the doctor as soon as possible for the proper medication
- Consult an ophthalmologist immediately in case of eye injuries.
- Do contact at the Fire Brigade (Tel.No. 101), for getting the details of the doctors on duty during the festival.

Don'ts

- Don't burn crackers in crowded, congested places, narrow lanes or inside the house.
- Don't let children burst crackers unaccompanied by an adult
- Don't put fireworks in your pocket or throw them
- Don't cover crackers with tin containers or glass bottles for extra sound effect
- Don't dare to examine sunbursts crackers...leave it!! Light a new cracker
- Don't show the Dare-devilry of lighting crackers on own hands.
- Don't use fireworks inside a vehicle
- Avoid long loose clothes, as they are fast in catching fire
- Don't remove burnt clothing (unless it comes off easily), but do ensure that the victim is not still in contact with smoldering materials.
- Don't apply adhesive dressing on the burnt area.
- Don't break the burst blister

Flood Safety

Do's and Don'ts after flood

- There is a possibility of spread of water borne diseases after flood, and hence
- Medical treatment should be taken immediately.
- Do not enter deep, unknown waters.
- Do not go near the riverbank even after the floodwater has receded.
- Sprinkle medicines in the stagnant dirty water.
- Inspect your house for any cracks or other damage. Check all the walls, floor, ceiling, doors and windows, so that any chance of house falling down can beknown and you can be aware about the immediate danger.
- If the floodwater has entered the house or has surrounded the house, then it is advisable not to enter such house.

- Keep listening to weather forecast on radio and television. Move to your residenceonly when instructed by the competent authority. It is not safe to believe that the problems have ended after the flood water have receded
- Inform the competent authority/officer for restoration of the necessary connectionslike gas, electricity, telephone, drainage, etc.
- Beware of the various insects or poisonous snakes that may have been draggedinside the house along with the floodwater.
- Destroy the food commodities that have been affected by floodwater.
- Check properly all the electric circuits, floor level furnace, boilers, gas cylinders, orelectric equipments like motor pump etc. Check whether any inflammable orexplosive item has not entered along with the floodwater.
- Switch off the main electric supply, if any damage is noticed to the electric equipments.
- If you find any breakage in the drainage system stop using latrines and do not usetap water.
- Do not use polluted water.
- Sewerage system should be checked and any damage should be repaired immediately so as to curtail spread of diseases.
- Empty the water clogged in the basement slowly with help of water pump so thatdamage to infrastructure can be minimized
- Check gas leakage which can be known by smell of gas or by hearing the sound ofleakage; immediately open all windows and leave the house.
- Boil drinking water before usage and drink chlorinated water.
- Eat safe food.
- Rescue work should be undertaken immediately after flood situation as per theinstruction. Do not follow any shortcut for rescue work.
- Do not try to leave the safe shelter to go back home until the local officials declarenormalcy after flood and instruction to return home are not given.

<u>Tsunami:</u>

The phenomenon Tsunami is a series of traveling ocean waves of extremely longlength generated primarily by earthquakes occurring below or near the ocean floor:

Following safety measures needs to be learnt before, during and after theoccurrence of tsunami:

Before

- Be familiar with the tsunami warning signals. People living along the coast should consider an earthquake or a sizable ground rumbling as a warning signal. A noticeable rapid rise or fall in coastal waters is also a sign that a tsunami is approaching.
- Make sure all family members know how to respond to a tsunami. Make evacuation plans. Pick an inland location that is elevated.
- After an earthquake or other natural disaster, roads in and out of the vicinity may be blocked, so pick more than one evacuation route.

- Teach family members how and when to turn off gas, electricity, and water
- Children should be taught in advance about the evacuation plans
- Prepare emergency kit beforehand. The emergency kit should contain Flashlight and extra batteries, battery-operated radio and extra batteries, First aid kit
- Emergency food and water, Essential medicines etc

During

- Listen to a radio or television to get the latest emergency information, and be ready to evacuate if asked to do so.
- If you hear a tsunami warning, move at once to higher ground and stay there until local authorities say it is safe to return home.
- Move in an orderly, calm and safe manner to the evacuation site
- Stay away from the beach. Never go down to the beach to watch a tsunami come in.
- If you can see the wave you are too close to escape it.
- Return home only after authorities advise it is safe to do so.

After

- Stay tuned to a battery-operated radio for the latest emergency information.
- Help injured or trapped persons.
- Stay out of damaged buildings. Return home only when authorities say it is safe.
- Enter your home with caution. Use a flashlight/torch when entering damaged buildings. Check for electrical shorts and live wires. Do not use appliances or lights until an electrician has checked the electrical system.
- Open windows and doors to help dry the building.
- Shovel mud while it is still moist to give walls and floors an opportunity to dry.
- Check food supplies and test drinking water.
- Fresh food that has come in contact with flood waters may be contaminated and should be thrown out

Heat Wave

Do's and don'ts poster should be pasted in each government offices in order to increase the awareness, immediately after receiving the Heat Wave warning from the concerned department. To mitigate the effects of Heat Stroke, the following measures are useful:

Do's

- i. Provide cool drinking water at the bus stand, railway stand and near workplace.
- ii. If you work outside, use a cap or an umbrella and use a damp cloth on your head, face, neck and limbs.
- iii. Drink sufficient water and make your body hydrated even if not thirsty.

- iv. Use fans, damp clothing and take a bath in cold water frequently.
- v. Listen to Radio, watch local TV for a news alert, read Newspaper for the local weather forecast to know if a heat wave is on the way.
- vi. Wear light-colored, lightweight, loose, and porous cotton clothes. Use protective genuine goggles, shoes or chappals while going out in sun.
- vii. Schedule strenuous jobs to cooler times of the day.
- viii. Pregnant workers and workers with a medical condition should be given additional attention.
- ix. Recognize the signs of heat stroke, heat rash or heat cramps such as weakness, dizziness, headache, nausea, sweating and seizures. If you feel faint or ill, see a doctor immediately.
- x. Increasing the frequency and length of rest breaks for outdoor activities.
- xi. Caution workers to avoid direct sunlight.
- xii. Keep animals in shake and give them plenty of water to drink.
- xiii. Keep your home cool, use curtains, shutters or sunshade and open windows at night.
- xiv. Use ORS, homemade drinks like lassi, lemon water, buttermilk, etc. which help to rehydrate the body
- xv. While traveling, carry a water bottle with you.

Don't

- i. Avoid high carbonated soft drinks, alcohol, tea and coffee, which dehydrates the body.
- ii. Avoid cooking during peak hours. Open doors and windows to ventilate cooking area adequately.
- iii. Avoid going out in the sun, especially between 12:00 noon and 3:00 PM
- iv. Do not leave children or pets in parked vehicles.
- v. Avoid wearing heavy, dark and tight clothing.
- vi. Avoid strenuous activities when the outside temperature is high.
- vii. Avoid high-protein food and do not eat stale food.

Annexure:45

Details of Chemicals Properties, Fire Fighting Agents, Antidotes, First Aid and Medical Treatment

Sr	Name Of	Hazard	Fire Fighting Agent	Antidote / First Aid / Medical Treatment
No	Chemical	Characteristics		11 cutilicité
1	Acetic Acid	Corrosive	Carbon Dioxide, Dry Chemical Powder, Water Spray and Alcohol Resistant Foam	Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. If heartbeats are absent, give external Cardiac compression. If substance has gone in eyes, wash with plenty of water for 15 minutes, holding eyes open and obtain medical treatment urgently.
2	Ammonia	Flammable, Toxic	Stop flow of gas, use water spray to cool fire exposed containers. Exposed fire fighter must wear positive pressure self-contained breathing-apparatus and full protective clothing.	Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. Inhalation of steam or vinegar vapor is recommended. If substance has gone in eyes, wash with plenty of water for 15 minutes To relieve restlessness, ingestion morphine 15mg to relieve Dypspnoea, Oxygen inhalation.
3	Ammo-niam Carbonate	Corrosive	Non-flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. If substance has gone in eyes, wash with plenty of water for 15 minutes, holding eyes open.
4	Ammonia Nitrate (Melt)	-	Use plenty of water to cool fire exposed containers. Exposed fire fighter must wear positive pressure self- contained breathing apparatus and full protective clothing. Container may explode in fire.	In case of burns due to hot Ammonium Nitrate solution, part should be flushed with large quantity of water and treated according to usual burns.

5.	Carbon Dioxide	Asphyxiant	Non-flammable	It is simple asphyxiant and can cause oxygen deficiency in confined space / non ventilated areas. Respiratory protection is required.
6.	Carbon Monoxide	Flammable, Toxic	Carbon monoxide, dry chemical powder, wear self contained breathing apparatus. Let fire burn, shut off gas while using the chemicals.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If hearts beats are absent, give external cardiac compression. Do not use mouth to mouth ventilation. Administer 100% oxygen till carboxyhemoglobin level is measured. Cerebral edema and convulsions must be controlled. Ethylene blue must not be injected.
7.	Chlorine	Toxic	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give external cardiac compression. In case of eye exposure, wash with copious amount of water for 15 minutes, keeping eyelids apart
8.	Coal	Flammable	Dry chemical powder, water supply	Incomplete combustion may produce CO1, suphur dioxide, hence respiratory protection may be required to fight the fire.
9.	Formic Acid	Flammable, Corrosive	Carbon dioxide, dry chemical powder, water spray and alcohol resistant, foam all purpose foam.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If hearts beats are absent, give external cardiac compression. If substance has gone in eyes, wash with plenty of water for 15 minutes, holding eyes open and obtain medical treatment urgently.
10.	Fuel Oil	Flammable	Carbon dioxide, dry chemical powder, foam	Remove the contaminated clothes. Wash the affected parts of skin with plenty of soap and water and seek medical advice immediately for inhalation of vapors / fumes.
11.	High Speed	Flammable	Dry chemical powder,	- do -
	Diesel	~	foam	
12.	Hydro-chloric Acid	Corrosive	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing,

13.	Hydrogen	Flammable,	Dry chemical powder,	give artificial respiration. Do not give alkaline substances or carbonate preparation. Skin should be treated with 5% Trietanol amine. If substance has gone in eyes, wash with plenty of water for 15 minutes, holding eyes open and obtain medical treatment urgently. It is simple asphyxiate and can
		Explosive	halon. Let fire burn under control. Stop flow of gas.	cause oxygen deficiency in confined space / non ventilated areas. Move victim to the fresh air and apply resuscitation methods.
14.	Hydrogen Iodide	Toxic	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If hearts beats are absent, give external cardiac compression. Incase of eye exposure, wash with copious amount of water for 15 minutes, keeping eyelids apart.
15	Hydrogen Sulphide	Flammable, Toxic	Carbon dioxide, dry chemical powder. Wear self-contained breathing apparatus. Alcohol resistant foam is also advisable to be used to stop fire.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Patient with significant exposure should be hospitalized for 72 hours of medical observation for delayed pulmonary edema. The respiratory centre may be stimulated by injection of LOBGIN and nike thamide. Victamin C may be injected intravenously. Incase of eye exposure, it should be treated with boric acid solution.
16	Iodine	Toxic	Use water spray or carbon dioxide. Do not use foam or dry chemical. Wear full protective clothing and self contained breathing apparatus for fire fighting.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If hearts beats abosent, give external cardiac compression. Patient with significant exposure should be hospitalized for 72 hours of medical observation. Consider administration of multiple metered

				doses of topical steroid hormon or 30 mg/kg of methyl prednisolone IV.
17.	LPG	Flammable, Explosive	Carbon dioxide, dry chemical powder, water spray	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If substance has gone in eyes, wash with plenty of water for 15 minutes holding eyes open
18.	Methane	Flammable, Explosive	Carbon dioxide, dry chemical powder. Shut off gas.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If substance has gone in eyes wash with plenty of water.
19.	Methanol	Flammable, Toxic	Carbon dioxide, dry chemical powder, water spray and alcohol resistant foam.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Never administer anything by mouth if a victim is losing conciousness. Do not induce vomiting. Do not use mouth to mouth respiration. Massive alkalization in life saving and eye saving measures. Give small quantity of Ethyl alcohol every 4 hourly. If substance has gone in eyes, wash with plenty of water for 15 minutes holding eyes open.
20.	Methyl Acetate	Flammable, Toxic	Carbon dioxide, dry chemical powder and alcohol resistant foam. Water may be ineffective.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If substance heart beats are absent, give external cardiac compression. If substance has gone in eyes, wash with plenty of water for 15 minutes holding eyes open and obtain medical treatment urgently.
21	Methyl Formate	Flammable, Toxic	Carbon dioxide, dry chemical powder, water spray and alcohol resistant foam.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If substance heart beats are absent, give external cardiac compression. If substance has gone in eyes, wash with plenty of water for 15 minutes holding eyes open and obtain medical

				treatment.
22	Methyl Iodide	Toxic	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If substance heartbeats are absent, give external cardiac compression. Do not use mouth to mouth ventilation. Keep under medical sureillance for 48 hours. Consider administration of multiple metered doses of topical stercoid by inhalation and or upto 30 mg / kg of methyl prednisolone. Incase of eye, contact immediately, refer to opthalmologist.
23	Mono Ethylene Glycol	Flammable, Toxic	Carbon dioxide, dry chemical powder and alcohol resistant foam.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If heartbeats are absent, give external cardiac compression. If substance has gone in eyes, wash with plenty of water.
24	Naphtha	Flammable	Foam dry chemical powder, carbon dioxide. Apply water fog from as far distance as possible.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. The decision of whether to induce vomiting or not should be made by an attending physician. If heartbeats are absent, give external cardiac compression. If substance has gone in eyes, wash with plenty of water.
25	Natural Gas	Flammable	Stop flow of gas. Dry chemical powder, carbon dioxide.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If substance has gone in eyes, wash with plenty of water for 15 minutes, holding eyes open.
26	Nitric Acid	Corrosive, Toxic	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. Do not induce vomiting. If heartbeats are absent, give external Cardiac compression. If substance has gone in eyes, wash with plenty of water for 15 minutes, holding eyes open and obtain medical treatment urgently.

27	Nitrio Orida	Comercia	Non flommehle	Remove the victim to fresh air. If
27	Nitric Oxide	Corrosive,	Non flammable	
		Toxic		there is a difficulty in breathing,
				give oxygen. Do not allow to walk.
				Fatal symptoms may be delayed
				upto 48 hours even though victim
				may seem normal after exposure. If
				hearts beats are absent, give
				external cardiac compression. If
				substance has gone in eyes, wash
				with plenty of water for 15 minutes
				holding eyes open and obtain
				medical treatment urgently.
				Methemoglobinemia due to no
				resolve in hours with oxygen
				therapy.
28	Nitrogen	Asphyxiate	Non flammable	Remove the victim to fresh air. If
	C			there is a difficulty in breathing,
				give oxygen. If hearts beats are
				absent, give external cardia
				compression. Treat for frostbite
				with lukewarm water.
29	Oxygen	-	Non flammable	Inhalation of 100 % oxygen can
	50			cause nausea, dizziness, irritation
				of lungs, pulmonary edema,
				pneumonia and collapse. Liquid
				oxygen will cause frostbite.
30	Nitrogen	Corrosive,	Non flammable	Remove the victim to fresh air. If there
50	Dioxide	Toxic		is a difficulty in breathing, give
	DIOXIde	TOXIC		oxygen. Enforce complete rest for 24
				to 48 hours. Incase of high exposure
				keep patient under medical observation
				for at least 72 hours. Some individuals,
				who had symptoms of acute exposure
				with or without edema, develop in
				immune reaction 10 days or 6 weeks
				after exposure. Symptoms include
				severe cough, cyanbosis (tuning blue)
				fever hypoxemia and X ray may show
				fire scattered nodes in the lungs are
				vulnerable to virus.
31	Potassium	Corrosive	Non flammable	Remove the victim to fresh air. If
	Hydroxide	Toxic		there is a difficulty in breathing,
				give oxygen. If substance heart
				beats are absent, give external

				cardiac compression. Incase of eye contact immediately refer for opt homological opinion. Treat skin burns conventionally.
32	PotassiumMeth oxide	Flammable, Toxic	Only dry chemical powder is allowed to be used. In reacts with water and CO2.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Never administer anything by mouth if a victim is losing consciousness. Do not induce vomiting. Do not use mouth to mouth respiration. Backing soda in glass of water should be given.
33	Prop ionicAcid	Flammable, Toxic, Corrosive	Foam, dry chemical powder, carbon dioxide. Apply waster fog from as far distance as possible.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If heart beats are absent, give external cardiac compression. Incase of eye contact flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with water and soap.
34	Rhodium Trioxide	-	Non flammable	Remove the victim to fresh air. Material cause irritation of nose, throat and respiratory tract. Repeated exposure to skin can cause allergic sensitization. Incase of eye contact, flush with plenty of water for 15 minutes.

35	Sodium	Corrosive,	Non flammable	Remove the victim to fresh air. If
	Hydroxide	Toxic		there is a difficulty in breathing,
				give oxygen. Incase of eye contact
				flush with plenty of water for about
				15 minutes. Remove wet clothes
				and wash affected area with water
				and soap.
36	Sulphur	Corrosive,	Non flammable	Remove the victim to fresh air. If there
	Dioxide	Toxic		is a difficulty in breathing, give oxygen.
				If hearts beats are absent, give external
				cardiac compression. Atrophicrhinitis
				and phayngitis may be treated by
				inhalation of 5% solution of sodium
				chloride, followed by inhalation of 5%

37	Sulphuric Acid	Corrosive, Toxic	Non flammable, react with water to form large amount of heat and corrosive fumes. Do not use water to existing fire in	solution of sodium chloride, followed by inhalation of vitamin A. Incase of of eye contact, flush with 2% sodium bicarbonate solution, drops of 2 to 3 % phedrine should be instilled in the nose. Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. Incase eye contact flush with plenty of water for 15 minutes. Remove wet clothes and
			the nearby area.	wash affected area with plenty of water.
38	Tricolor Ethylene	Flammable, Toxic	Carbon dioxide, dry chemical powder, water spray and alcohol resistant foam.	Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. Do not induce vomiting If heart beats are absent, give external Cardiac compression. If substance has gone in eyes, wash with plenty of water for 15 minutes, holding eyes open and obtain medical treatment urgently.
39	Ortho Dichloride Benzene	Flameable, Toxic	Foam dry chemical powder, carbon dioxide. Apply water fog from as far distance as possible.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. In case of eye contact flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.

40	Trichloro	Corrosive,	Foam dry chemical	It is very corrosive liquid. Exposure
	Acetyl Chloride	Toxic	powder, carbon dioxide.	will produce tears in the eyes and severe chemical burns. Move the person to fresh air. If not breathing, perform artificial respiration. If required, give oxygen. Wash the affected skin thoroughly with soap and water. Flush and irrigate eyes with copious quantity of water for at least 15 minutes. Do not induce vomiting.
41	Acrylo-nitrile	Flammable, Toxic	Carbon dioxide, dry chemical powder	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If the unconscious, crush an amylnitrile ampoule in a cloth and hold it under the nose for 15 seconds in every minute. Do not interrupt artificial respiration during this process.
42	Copper Comp-ounds	_	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If heart beats are absent, give external cardiac compression. If substance has gone in eyes wash with plenty of water for about 15 minutes, holding eyes open and obtain medical treatment urgently.
43	Aniline	Flammable, Toxic	Foam, dry chemical powder, carbon dioxide	Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. Aniline is very toxic, if splashed on skin. It passes through the skin, causing methamoglobinemia. Antidotes areethylene blue. Incase of eye contact flush with plenty of water for 15 minutes. Remove wet clothes and wash affected area with plenty of water.
44	Benzene	Flammable, Toxic	Foam, dry chemical powder, carbon dioxide	Remove the victim to fresh air. If there is a difficulty in breathing, give Oxygen. Benzene is very toxic or if splashed on skin. Cronic

	exposure may lead to leuken	nia.
	Incase of eye contact flush w	vith
	plenty of water for 15 minut	tes.
	Remove wet clothes and w	vash
	affected area with plenty of water	r.

17	NU and	El	Dec. 1. 1. 1	Demonstration (1) 1 1 1
45	Nitro-benzene	Flammable, Toxic	Foam, dry chemical powder, carbon dioxide	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. NB is very toxic if splashed on skin. It passes through the skin causing methamoglobinemia. Antidote is methylene blue. In case of eye contact flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
46	Phosgene	Corrosive Toxic	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Phosgenen is very toxic incase of inhalation. It has very low $TLV - 0.1$ ppm. Keep the person under observation for 72 hours for possibility of delayed effect. In case of eye contact, flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
47	Toluene	Flammable, Toxic	Foam, dry chemical powder, carbon dioxide	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Toluene is very toxic if splashed on skin. Incase of eye contact flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
48	Di Nitro Toluenen	Flammable, Explosive	Use plenty of water to cool fire exposed containers. Exposed fire fighter must wear positive self contained breathing apparatus. Foam and dry chemical powder and	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Di Nitro Toluene is very toxic if splashed on skin. Incase of `eye contact flush with plenty of water for about 15 minutes. Remove wet clothes and

			carbon dioxide can be	wash affected area with plenty of
			used.	water.
49.	Metaol-uene Di Amine	Flammable, Toxic	Foam dry chemical powder, carbon dioxide. Apply water fog from as far distance as possible.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Metaoluene Di Amine is toxic, if splashed on skin. Incase of eye contact flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
50	Toluene Di Isocyanate	Corrosive, Toxic	Dry chemical powder, carbon dioxide. Do not apply water as it reacts violently with water at elevated temperature.	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Toluene Di Isocynate is very toxic if inhaled In cause pulmonary edema. TLV of TDI vapor is very low i.e. 0.0005 ppm. If splashed on skin, incases sensitization of skin tissue. Incase of eye contact, flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
51	Methyl Iodine	Toxic	Non Flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If heart beats are absent, give external cardiac compression. Do not use mouth to mouth ventilation. Keep under medical surveillance for 48 hours. Consider administration of multiple metered doses of topical stercoid aerosol by inhalation and or upto 30 mg / kg of methyl prednisolone. Incase of eye, contact immediately, refer to opthalmologist.
52	Chloro Sulphonic Acid	A poison to irritant, corrosive	Use DCP, foam if exposes to fire.	Remove victim to fresh air. If there is a difficulty breathing, give oxygen. Do not induce vomiting. Obtain medical treatment urgently.
53	Carbon Di Sulphide	Flammable, Explosive	Use DCP, CO2	Remove victim to fresh air. If there is a difficulty breathing, give oxygen. Do not induce vomiting. Obtain medical treatment urgently.

54	Etyhlene	Flammable,	Use DCP	Remove victim to fresh air. If there
51	Oxide	Carcinogen		is a difficulty breathing, give
	onice	Curennogen		oxygen. Do not induce vomiting.
				Obtain medical treatment urgently.
55	Acephate	Non	Use DCP, foam if exposed	Atropine sulphate in dose $2 - 4$ mg
55	Anilo-phose	flammable	to fire.	for adult, 2 pam $1000 - 2000 \text{ mg}$ /
	Ethion	mannable		im.
	Phorate			
	Quinal-phos			
56	Alachor	Non	Use DCP, foam is exposed	Inject 1 gm of Eralidioxime
	Carbenda-zim	flammable	to fire	chloride IV. Do not induce vomiting
	Thiophanate			if the injected poison is principally a
	- M			hydrocarbon solvent.
57	Mancozeb	Non	Use DCP, foam is exposed	Low toxicity, no specific treatment.
	Thiram	flammable	to fire	
58	Allethrin	Toxic	Use DCP, foam is exposed	The treatment is symptomic.
	Cyperm-		to fire	
	ethrin			
	Fevalrate			
59	Alumi-nium	Non flamm-	Use DCP, foam is exposed	Injection copper sulphate 0.25 gm.
	Phosphate	able	to fire	
60	Isopro-turon	Non flamm-	Use DCP, foam is exposed	Supportive treatment.
		able	to fire	
61	Hexa-	Non flamm-	Use DCP, foam is exposed	There is no specific antidotes and
		able	to fire	treats the victim symptomatically.
	conazole			
	Propi-			
	conazole			
62	Propane	Flamm-able,	DCP, Water	First aid.
		Explosive		
63	Butadine	Flamm-able,	DCP, Water	First aid.
		Explosive		
64	Propylene	Flamm-able,	DCP, Water	First aid.
		Explosive		
65	Styrene	Flamm-able	DCP, Foam compound	-
	Monomer			

<u>Annexure 46</u> Guidelines issued by NDMA on 12/05/2020



No.02/229/Ops/2018

Date: 12.05.2020

To,

Principal Secretary (DM) / Relief Commissioners of all State / UTs

Subject: Review of Preparedness for the Monsoon season

Sir / Madam,

 NDMA conducts a meeting annually to review preparedness for the Monsoon season before the onset of south west monsoon every year. However, in view of the prevailing COVID-19 pandemic, pre-occupation of the field officers and the lockdown measures, it would not be feasible to organise the annual meeting.

 Though it is well appreciated that all the resources at the disposal of States / UTs have been deployed for prevention, containment and management of COVID-19, it is imperative for the States / UTs to be concurrently prepared for possible floods during the ensuing South-West Monsoon Season (including urban floods).

3. The IMD has issued first stage Long Range Forecast (LRF) for South West Monsoon Season (June-September) rainfall for this year on 15 April 2020. As per the forecast, SW Monsoon rainfall over the country as a whole is likely to be normal (96 -104%). The IMD will issue the updated forecasts in the last week of May / First week of June 2020 as part of the second stage forecast. Along with the updated forecast, separate forecasts for the monthly rainfall (July and August) over the Country as a whole and seasonal rainfall (June-Sep) over the four broad geographical regions in India will also be issued. (For further, please refer IMD website -https://mausam.imd.gov.in/imd.latest/contents/seasonal.forecast.php#)

4. Over the past several years, the intensity and frequency of both riverine and urban floods have shown increasing trends. It is important that the States /UTs initiate requisite flood preparation and mitigation measures to address floods in the ensuing monsoon season well in time, while being prepared simultaneously for Covid-19, with the personnel equipped with necessary PPE and while ensuing necessary physical distancing norms. In particular, the following steps may please be taken by the States / UTs:

 States / UTs to review preparations for floods as per their State Disaster Management Plans (SDMPs) and District Disaster Management Plans (DDMPs). The Incident Response System (IRS) may be notified/ activated at the earliest. The Plans may appropriately be modified in the light of Covid-19 measures.

2

b. Relief commissioners / Secretary (DM) of all States / UTs should convene Monsoon Preparation Meetings / video conferences with all stakeholders including Armed Forces, NDRF, CAPFs, SDRF, State Police and Civil Defence, home guards and civil society organisations for coordination and preparedness.

c. All States/ UTs should nominate Nodal Officers for coordination with Central Government for both preparatory activities as well as response. Nodal officers may also be designated from various line departments for coordination with respective Central Government Ministries.

d. States / UTs to plan training, equipment and prepositioning of their SDRF and mobilization of volunteer organizations like Civil Defence, Home Guards, Aapda Mitra, other institutional and community volunteers.

e. Llaison and coordination should be done with the Armed Forces and other stake holders in the States / UTs both at the State and District level.

f. All States / UTs should rely on the designated Government Early Warning Agencies for early warning and information

g. Take stock of the DM inventory / equipment like boats, saws, life jackets, sandbags etc and procure the required items in advance. Emphasis should be given on prepositioning of boats, essential items like medicine, Food grain, fuel, etc.

h. The IMD Nowcast is an important tool for initiating timely preventive measures. All States / UTs must encourage their officers at all levels to follow Nowcast and other forecasts by the National Early Warning agencies.

 Some States / UTs also have their hydrological stations to record the river and rainfall data. States / UTs should share their hydrological data with CWC and IMD for better monitoring and forecasting. There is also a need to review Warning, Danger and Highest Flood Levels of the rivers.

j. NRSC carries out near real time monitoring and damage assessment through satellite mapping. Mapping of vulnerable areas must be done by State / Distt. Authorities in coordination with NRSC for better planning and response. Arrangements must be made to share inundation Maps in real time in compatible formats.

k. NDRF should preposition its teams in States / UTs based on the previous experience and weather forecasts in consultation with State / District Authorities. States / Districts are advised to be in regular touch with NDRF.

 States / UTs may constitute a high level committee to take timely decision in respect of Reservoir Management and to coordinate with respective Dam Authorities. Information of water released from dams / reservoirs must be shared with the neighboring States on real time basis.

m. Some States and UTs who are affected by release of water from neighbouring countries must establish protocols and SOPs to receive real time information on the same.

n. Establishment of Urban Flood / Flood management cell in each vulnerable city with a dedicated technically qualified nodal officer. Such cities should put in place Standard Operating Procedure (SOP) for Urban Flood Management and Mitigation.

 Cleaning and desilting of drains and holding ponds to be completed well in time before the onset of monsoon.

 Installation of portable dewatering pumps at appropriate flooding location within the vulnerable cities.

q. Unusually heavy rainfalls over short periods, snow melting, potential locations of GLOFs, cloud bursts, and releases of water from reservoirs should be monitored regularly.

 States/ UTS just coordinate with regional IMD & CWC offices for regular forecasts.

 bo's and Don'ts along with other advisories must be disseminated in local language using diverse media.

 U-hocks to be used for securing the non RCC roofs of building / houses, particularly in coastal areas.

 Preemptive pruning of trees and removing/securing of billboards must be ensured.

v. Designated Shelters must be maintained and additional locations may be identified for shelters and relief camps

 Review emergency communication arrangements and ensure serviceability of NDMS satellite terminals and phones.

5. While all the above preparedness measures are undertaken, it is necessary to keep in mind that we will be preparing and responding to disasters amidst our fight against COVID-19 (containment, preparedness, treatment etc.). Hence, the following additional precautions/ measures should be taken while we prepare for cyclones/ floods/ urban floods:

a. Checking whether quarantine/ isolation facilities are located in the flood prone areas and if necessary, moving them to safe areas or taking measure to ensure that they are not affected by floods. 4

b. During mass evacuation in case of an impending cyclone/ flooding, necessary measures need to be taken to ensure physical distancing, avoiding over-crowding, wearing necessary face masks by all etc.

c. Due to the need to maintain physical distancing, there will considerable reduction in the capacity of the cyclone/ flood shelters to accommodate evacuated/ affected people. Keeping this in mind, the capacity of the cyclone/ flood shelters needs to be reworked and additional shelters need to be identified and prepared well in advance. Also, additional toilets and other arrangements also need to be made even in the existing shelters to ensure that COVID-19 spread does not happen in the cyclone/ flood shelters or relief camps. Adequate COVID-19 precautions will also be needed in activities related to cooking and feeding in the shelters.

d. Regular medical checkups are required in the camps/ shelters to ensure that people with symptoms are isolated and treated so that COVID-19 spread can be prevented.

e. The first responders and staff involved in disaster evacuation, rescue and relief activities (SDRF/ Fire Services/ Home Guards/ Civil Defense/ Apada Mitra or any other volunteer) should wear adequate personal protective equipment (PPE). Hence, the State Governments should assess the need for PPEs for disaster management purposes and make arrangements for the same.

f. Management of concurrent disasters of cyclone/ flood and COVID-19 will need additional infrastructure, human and material resources and revision of our preparedness and response plans. Hence the State Governments and the District Administrations should rework the requirement of resources for managing cyclone/ floods in the light of the existing COVID-19 pandemic situation.

 In addition to the above measures, all the States / UTs are requested to keep MHA and NDMA informed of any threatening or emerging cyclone/ flood situation on a real time basis.

Yours faithfully,

/ (Brig Ajay Gangwar) Advisor (Operations & Communications)

Copy to:

1. JS-DM, MHA 2. DCIDS (Ops), HQ IDS 3. Chairman, CWC. 4. DG, IMD 5. DG, NDRF 6. DG, Coast Guard 7. Director, NRSC

<u>Annexure:47</u> Information about District Rapid Response Team

Team 1

No.	Designation	Name	Contact No.
1.	Epidemic Medical Officer	Dr.Kesav kumar	90232 02627
		Singh	
2.	APM-IDSP	Dr. Sachin	78745 10543
3.	Lab Technician	Mr. Prakash	97277 34211
		Durgani	
4.	District Sanitary	Mr. Murubha	90999 31349
	Inspector	Jadeja	
5.	Pharmacist	Mr. Chetan Bhatt	97277 34456

Team 2

No.	Designation	Contact No.
1.	CDMO	98252 29007
2.	RMO(Adani)	99044 82475
3.	General Surgeon(Adani)	98252 98153
4.	Pediatrician(Adani)	94606 10202
5.	Community Medicine(Adani)	74053 47025
6.	Physician(Adani)	81600 73701
7.	Pathologist(Adani)	99252 07711

District Level Health Officer's Telephone Numbers:

No.	Name	Designation	Mobile
1.	Dr.R.R.FULMANI	CDHO	99099 49304
2.	Dr.R.R.FUMANI	ADHO	99099 49304
3.	Dr.J.A.KHATRI	RCHO	83471 31061
4.	Dr.KESHAVKUMARSINGH	DSO/EMO	90232 02627
5.	Dr.AMIN ARORA	DQAMO	99099 49333
6.	Dr.MANOJ DAVE	DTO	92650 56300
7.	Dr.KESHAVKUMARSINGH(I/C)	DMO	97277 34211
8.	Dr.V.D.THAKKAR	DIECO	94290 41707
9.	Dr.BHAVAR PRAJAPATI	DPC	99099 49308
10.	Dr.BHAVAR PRAJAPTI(I/C)	DUPC	99099 49308

Sr. no	Name Of DH/SDH	Name of Suderintendent	Contact No
1	Sub District Hospital, Anjar	Dr.Harish Matani	98253 80576
2	Rambaugh Hospital, Gandhidham (SDH Gandhidham)	Dr.Harish Matani	98253 80576
3	Sub District Hospital, Mandvi	Dr. K. K. Roy	95379 81308

List of Divisional Hospital/Sub Divisional Hospital:

List of Hospitals with contact details of officers:

List of PHC;

SN	Taluka	РНС	Name of MO	Mobile No
1		JAKHAU	Dr.Richa Bambhaniya	73596 11341
2		KOTHARA	Dr.Harshkumar Parmar	94290 77528
3		MOTHALA	Dr.Gajendra Kotval	93755 51158
4	ABDASA	TERA	Dr.Heenaba M Zala	99799 60076
5		VAYOR	Dr.Mahendra Das	97264 29250
6		DUMARA	Dr.Manoj Kapoor	99099 49385
7		BHIMASAR-C	Dr.Roshani Dama(Ayush Mo)	99240 00263
8		CHANDRANI	Dr.Priyanka Valand(Ayush Mo)	75730 08014
9		KHEDOI	Dr.Charul Patel(Ayush Mo)	99099 49328
10	ANJAR	MATHAK	Dr.Diptanshu Makwana	70167 68677
11		MEGHPAR B	Dr.Simpy Singh	97264 34809
12		RATANAL	Dr.N.K.Verma	99099 49361
13		SANGHAD	Dr.Priyanshiba Jadeja(Ayush Mo)	95869 14199
14		ADHOI	Dr.Priya Rathod	99099 49325
15		AMARDI	Dr.Nisha Thoriya(Ayush Mo)	94299 80803
16		DHORAVIRA	Dr.Vibhuti Kotadiya(Ayush Mo)	70169 89184
17	BHACHAU	JUNA KATARIYA	Dr.Ravi Bavarva	97122 09353
18		JUNGI	Dr.Swapni chaudhary	87805 56328
19		MANAFARA	Dr.Salini Techchandani	95106 03587
20		SAMAKHIYARI	Dr.Hiren Padvi	87584 61495

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21		BHIRANDIYARA	Dr.Jashrajsinh Barad(Ayush Mo)	70964 64373
22		DAHISARA	Dr.Yashmitaba Jadeja(Ayush Mo)	97267 43983
23		DESHALPAR-V	Dr.Sanjaykumar Singh	97264 34779
24		DHANETI	Dr.Hmangi Chadhary(Ayush Mo)	95122 70021
25		GOREVALI	Dr. Jitendra Noriya	97098 58804
26	BHUJ	KERA	Dr.Chand Patriya	99099 49334
27		KODKI	Dr.Muskan Sumra	99099 49333
28		KUKMA	Dr.Rajesh Suthar	99099 49335
29		MADHAPAR	Dr.Rag Hadpani	99099 49362
30		DINARA	Dr.Sabna Memon(Ayush Mo)	82000 57108
31		SUKHPAR	Dr.Rohit Bhil	85119 85157
32	GANDHIDHAM	KIDANA	Dr.Sanjay Sinha	94087 52630
33	GANDIIDIIAM	MITHI ROHAR	Dr. Krusha patel(Ayush Mo)	94091 54206
34		BARANDA	Dr.Rutvik Lakum(Ayush Mo)	91060 97384
35		GHADULI	Dr.Kalpesh Rathod(Ayush Mo)	95373 38228
36	LAKHPAT	MATANAMADH	Dr.Jankiben Vyas (I/C)	63559 16330
37		NARAYAN AROVAR	Dr. Nimishaben Makwana(I/C)	73835 93096
38		BHADAI MOTI	Dr.Harshsinh Jadeja	94292 51337
39		DARASADI	Dr.Vishal Hadiya	99241 55861
40		GODHARA	Dr.K.P.Paswan	99099 49340
41		GUNDIYARI	Dr.Pravin Chaudhary	95743 27145
42	MANDVI	KODAY	Dr.Birva Dave	99099 49373
43		LAYAJAMOTA	Dr.Priya Gupta	96162 29254
44		NANA AASAMBIYA	Dr.Jitendra Gohil	97124 26808
45		TALAVANA	Dr.Dinki Patel	96648 60564
46		BHADRESHWAR	Dr.Meet Patel	99099 49379
47		NANA KAPAYA	Dr.Suman Sama	99099 49342
48	MUNDRA	KANDAGARA MOTA	Dr.Jhanvi Chavda	99099 49376
49		RATADIYA	Dr.Muntzir Master	89806 67861
50		TUMBADI NANI	Dr.Diptiben Chaudhry	92659 39832
51		VANKI	Dr.Sohil Mugal	92650 68288
52		ZARPARA	Dr. Muntzir Master	97264 34634

53		DESHALPAR-G	Dr.Priyanka Gohil(Ayush Mo)	93134 17278
54		MANGVANA	Dr.Nirav Rasbhariya	94091 83342
55		NETRA	Dr.Bharati	78746 69740
56	NAKHATRANA	NIRONA	Dr.Rahulsinh Chauhan	95748 48409
57		VITHON	Dr. Mayuri Devnani	78746 46683
58		RAVAPAR	Dr.Yahpalsinh Gohil	90162 29254
59		ADESAR	Dr.Vivek Pitroda	91574 11298
60		BALASAR	Dr.Rinku Gadhavi	99781 90468
61		BELA	Dr.Dipika Vaghela	72288 82919
62		BHIMASAR(B)	Dr.Dharshna Shimali	90817 44071
63	RAPAR	CHITROD	Dr. Nita Goswami (I/C)	75730 08037
64		FATEHGADH	Dr. Kinjal Damor	99246 52922
65		GAGODAR	Dr.Manisha Prajapati	76003 20497
66		GEDI	Dr. Dhara Sarvaiya	70465 52693
67		SUVAI	Dr.R.K.Prajapati	99099 49357

List of UPHC:

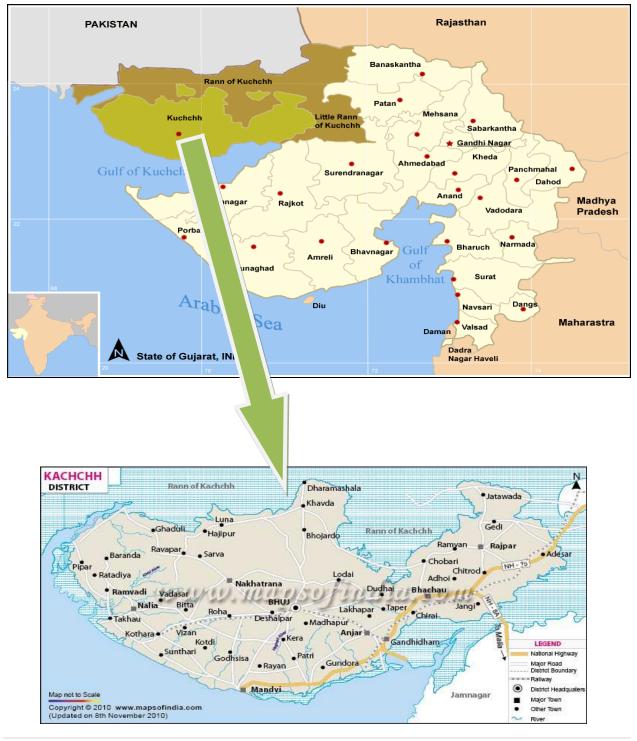
Sr.No	Name of Taluka	Name of UHC	Urban Health officer Mobile No.
1	Mandvi	Mandvi	99099 49315
2	Anjar	Anjar	99099 49329
3	Gandhidham	Gandhidham	99099 49330
4	Bhuj	Bhuj	99099 49362
5	Bhachau	Bhachau	99099 49312
6	Rapar	Rapar	99099 49311

Sr.	Name Of CHC	Name of Superintendent	Contact No. of Sup.
1	Dayapar	Dr. R.O. Lodhra(I/C)	75678 76188
2	Nakhatrana	Dr. H. M.Vesetiya	75678 76193
3	Mangvana	Dr.Jagdish Gamit(I/C)	87581 99288
4	Naliya	Dr.D.D.Dulera(I/C)	75678 76194
5	Gadhsisa	Dr. Madanji Prasad(I/C)	99983 51098
6	Mundra	Dr.S.K.Damani	7567876192
7	Bhujpur	Dr.M.L.Fafal(I/C)	99788 64388
8	Bharapar	Dr. Anila Goswami	75678 76187
9	Dhori	Dr.Dinesh Dharajiya(I/C)	91573 40740
10	Khavda	Dr. Rajesh Verma(I/C)	75678 76190
11	Anjar	Dr. T.M.Dhanani	9825293777
12	Dudhai	Dr.Rikitaben Virda	79907 28298
13	Bhachau	Dr.K.G.Kurmi(I/C)	94272 34231
14	Lakadiya	Dr. Sujit kumar(I/C)	7567876191
15	Janan	Dr.Narayan Singh(I/C)	99099 49395
16	Rapar	Dr.Motilal Roy(I/C)	99099 49311
17	Palasva	Dr.Motilal Roy(I/C)	75678 76191

List of CHC:

Maps of Kutch District:

Map showing Kutch District





District Map showing roads and Political Map

List of Abbreviation

Sr. No	Abbreviation	Full form of Abbreviation
1.	AIDS	Acquired Immune Deficiency Syndrome
2.	APMC	Agricultural Produce Market Committee
3.	AE	Assistant Engineer
4.	АН	Animal Husbandry
5.	ATI	Administrative Training Institute
6.	ATS	Anti Terrorist Squad
7.	ATVT	Apno Taluko Vibrant Taluko
8.	BPL	Below Poverty Line
9.	BRC	Block Resource Centre
10.	CBO	Community Based Organization
11.	CDHO	Chief District Health Officer
12.	CDMC	Circle Disaster Management Committee
13.	CDPO	Child Development Project Officer
14.	CHC	Community Health Center
15.	COR	Commissioner of Relief
16.	CRC	Community Resource Centre
17.	CRF	Calamity Relief Fund
18.	CRZ	Coastal Regulatory Zone
19.	CSO	Civil Society Organization
20.	DC	District Collector or Deputy Commissioner
21.	DCMG	District Crisis Management Group
22.	DDMA	District Disaster Management Authority
23.	DDMC	District Disaster Management Committee
24.	DDMP	District Disaster Management Plan
25.	DDO	District Development Officer
26.	DEOC	District Emergency Operation Centre
27.	DGVCL	Dakshin Gujarat Vij Company Limited
28.	DISH	Directorate of Industrial Safety and Health
29.	DM	Disaster Management
30.	DPO	District Project Officer
31.	DRM	Disaster Risk Management
32.	DRR	Disaster Risk Reduction
33.	DSO	District Sports Officer
34.	DSP	Deputy Superintendent of Police
35.	Dy. Eng.	Deputy Engineer
36.	DySP	Deputy Superintendent of Police
37.	EMRI	Emergency Management and Research Institute
38.	EQ	Earth Quake

39.	ESR	Elevated Surface Reservoir
40.	EWS	
40.		Early Warning System
41.	Ex. Eng. FCI	Executive Engineer
		Food Corporation of India
43.	FPS	Fair Price Shop
44.	FWP	Food for Work Program
45.	GDCR	General Development Control Regulation
46.	GEB	Gujarat Electricity Board
47.	GIDM	Gujarat Institute of Disaster Management
48.	GIS	Geographical Information System
49.	GLR	Ground Level Reservoir
50.	GMB	Gujarat Maritime Board
51.	GoI	Government of India
52.	GPs	Gram Panchayats
53.	GSDMA	Gujarat State Disaster Management Authority
54.	GWSSB	Gujarat Water Supply and Sewerage Board
55.	HFA	Hyogo Framework for Action
56.	HHs	Households
57.	HPC	High Powered Committee
58.	HQ	Head Quarter
59.	HRVA	Hazard Risk Vulnerability Analysis
60.	HRVC	Hazard, Risk, Vulnerability and Capacity
61.	IAY	Indira Aawas Yojana
62.	IMA	Indian Medical Association
63.	IC	Incident Commander
64.	ICS	Incident Command System
65.	ICZMP	Integrated Coastal Zone Management Project
66.	IDNDR	International Decade for Natural Disaster Reduction
67.	IDRN	India Disaster Resource Network
68.	IEC	Information Education Communication
69.	IMD	Indian Meteorological Department
70.	ISDR	International Strategy for Disaster Reduction
71.	ISR	Institute for Seismic Research
72.	ITI	Industrial Training Institute
73.	IWMP	Integrated Watershed Management Program
74.	LCMG	Local Crisis Management Group
75.	LO	Liaison Officer
76.	МАН	Major Accident Hazard
77.	MGNREGA	Mahatma Gandhi National Rural Employment Guarantee Act
78.	MGNREGS	Mahatma Gandhi National Rural Employment Guarantee Scheme
79.	MHA	Ministry of Home Affairs
80.	MLA	Member of Legislative Assembly
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81.	mm	Mili Meter
82.	MP	Member of Parliament
83.	NAPCC	National Action Plan on Climate Change
84.	NCC	National Cadets Corps
85.	NCCF	National Calamity Contingency Fund
86.	NCRMP	National Cyclone Risk Mitigation Project
87.	NDM	National Disaster Management
88.	NDMA	National Disaster Management Authority
89.	NDRF	National Disaster Response Force
90.	NDRF	National Disaster Response Force
91.	NEC	National Executive Committee
92.	NFSM	National Food Security Mission
93.	NGO	Non Government Organization
94.	NIDM	National Institute of Disaster Management
95.	NRDWP	National Rural Drinking Water Program
96.	NRHM	National Rural Health Mission
97.	NSS	National Service Scheme
98.	NYK	National Yuva Kendra
99.	PCPIR	Petroleum Chemical and Petrochemical Special Investment Region
100.	PDS	Public Distribution System
101.	PHC	Primary Health Center
102.	PI	Police Inspector
103.	PMAY	Pradhan Mantri Awas Yojna
104.	PMGY	Pradhan Mantri Gramodya Yojna
105.	PPP	Public Private Partnership
106.	PRIs	Panchayati Raj Institutions
107.	R&R	Recovery and Reconstruction
108.	R&B	Roads and Buildings
109.	RTO	Regional Transport Office
110.	SC	Scheduled Caste
111.	SDM	Sub District Magistrate
112.	SDMA	State Disaster Management Authority
113.	SDRF	State Disaster Response Fund
114.	SDRN	State Disaster Response Network
115.	SE	Superintending Engineer
116.	SEOC	State Emergency Operation Centre
117.	SFO	Sub Focal Officer
118.	SEZ	Special Economic Zone
119.	SHGs	Self Help Groups
120.	SMC	School Management Committee
121.	SMS	Short Message Service
122.	SOP	Standard Operating Procedure

123.	SRPF	State Reserve Police Force
124.	SRT	Special Response Team
125.	SSA	Sarva Shiksha Abhiyan
126.	ST	Scheduled Tribe
127.	S&R	Search and Rescue
128.	Supt. Eng.	Superintendent Engineer
129.	SWO	Social Welfare Officer
130.	TDMA	Taluka Disaster Management Authority
131.	TDMC	Taluka Disaster Management Committee
132.	TDMP	Taluka Disaster Management Plan
133.	TDO	Taluka Development Officer
134.	TEOC	Taluka Emergency Operation Centre
135.	TFOR	Task Force Operation Room
136.	ТНО	Taluka Health Officer
137.	TNA	Training Needs Assessment
138.	TSC	Total Sanitation Campaign
139.	TSO	Taluka Supply Officer
140.	ULB	Urban Local Body
141.	UNDP	United Nations Development Programme
142.	UNFCC	United Nations Framework Convention on Climate Change
143.	VDMC	Village Disaster Management Committee
144.	VDMP	Village Disaster Management Plan
145.	WASMO	Water and Sanitation Management Organization

