

DISTRICT DISASTER MANAGEMENT PLAN SURAT



Surat District Disaster Management Authority

&

Gujarat State Disaster Management Authority

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Published by

Shree Tejas Parmar (IAS)

Collector, Surat

Shree Vijay Rabari (GAS)

Resident Additional Collector

DEOC, Surat

District Project Officer

DRM Program, Surat

Collector Office

Disaster Management Branch

**1st Floor of Nagrik Suvidha Kendra, Opp. New Court Building,
Near Police Headquarters,
Athwalines, Surat-395 001, Gujarat**

Email ID: (dismgmt-sur@gujarat.gov.in) (66.disastersurat@gmail.com)

Phone No.: (0261) 2663200 Fax: (0261) 2664800 Toll free No.: 1077

Preface

The establishment of the Disaster Management Authority and the Disaster Management Act has created a new direction for disaster management in the country by creating a scientific structure for it. It has always been about learning something from facing natural and man-made disasters coming in Gujarat in functional form.

It is necessary to have timely and constructive planning to reduce the impact of disaster. The Gujarat State Disaster Management Authority in Surat district has implemented the Disaster Risk Management program. Under which, preparation of plans at various levels, first aid, search & rescue, housing construction, alert and communication skills, etc., have been undertaken by the Disaster Management Cell in the district in order to increase public awareness and capacity building.

The emergency Operation Center at Surat and additional facilities provided by the state government can be useful for immediate response during a disaster. The complete information of the district, resources, and resource inventory that are integrated into this district disaster management plan will be useful to the administration for responding at the time of disaster. This plan will be helpful and give guidance on the district level for information regarding disasters. As a result, the damage caused by disaster can be properly reduced or removed.

In order to prepare the plan, timely information is taken, thanks to the active efforts of the District executives and Disaster Management Committee Authorities, Surat, for cooperation.

To check the proposed district disaster response plan and make the plan more effective, yearly a few mock drills are conducted. Also, the plan is updated periodically. This integrated booklet will be helpful to all affiliates, and your cooperation and suggestions are welcome to provide more efficient services.

Tejas Parmar (IAS)
Collector & District Magistrate
Surat

CHECK LIST

Given below is the general list of important actions / items required in a Disaster. Please check out the items pertaining to your area / function.

- District Collector is the chief custodian of this plan document and also ensure that this plan document is reviewed and updated regularly.
- The Collector shall submit a copy of district disaster management plan and of any amendment thereto to the GSDMA and the state Relief Commissioner as well.
- Each govt. department shall prepare a disaster management plan for the district and Collector shall ensure that such plans are integrated into the district disaster management plan.
- The departmental heads of the district shall ensure that all employees have gone through this document and aware of their roles and responsibilities.
- Each department shall identify a disaster coordinator who will be responsible to coordinate with different taskforces.
- Each taskforce leader shall ensure, their SOPs are prepared and all the members have gone through the Plan/SOPs and clear about their roles and responsibilities.
- During your absence/leave period, please keep key members informed.
- Make sure that you have identified an Alternate Member from your department who would function in your place in case of emergency.
- Each taskforce shall identify a Communication Coordinator from the taskforce members.
- Make sure, the facilities available at District Control Room (DCR) and Taluka control rooms are intact and are in good condition.
- Check that all Communication facilities like Telephones, Cell Phones, Radios, Base Stations etc. under your control are in good operating condition and fully charged.
- Ensure that you have the latest revised list of Emergency Contact Numbers and addresses.
- Ensure availability and operability of all resources under your control and at identified resource locations in neighboring districts for quick mobilization to emergency site.
- Maintain the records of area-wise population, shelter centers in your area for effective emergency evacuation.
- Check that the updated list of blood donors is available.
- Ensure adequate inventory of critical equipment/spares/medicines is available
- Make sure that all Fire Protection systems, rescue equipment, PPEs and other emergency equipment are in a good state of repair.

List of Abbreviations

ICS:	INCIDENT COMAND SYSTEM
EOC:	EMERGENCY OPERATION CENTER
DCR:	DISTRICT CONTROL ROOM
TCR:	TASKFORCE CONTROL ROOM
TLCR:	TALUKA LEVEL CONTROL ROOM
DC;	DISTRICT COLLECTOR
RAC:	RESIDENT ADDITIONAL COLLECTOR
RDC:	RESIDENT DISTRICT COLLECTOR
DDO:	DISTRICT DEVELOPMENT OFFICER
DSP:	DISTRICT SUPERINTENDENT OF POLICE
MC:	MUNICIPAL COMMISSIONER
SDM:	SUB DIVISIONAL MAGISTRATE
TDO:	TALUKA DEVELOPMENT OFFICER
SMC:	SURAT MUNICIPAL CORPORATION
ULB:	URBAN LOCAL BODIES
NAC:	NOTIFIED AREA COUNCIL
NCC:	NATIONAL CADET CROPS
NGOs:	NON-GOVERNMENTAL ORGANISATIONS
CD:	CIVIL DEFENCE
GSDMA:	GUJARAT STATE DISASTER MANAGEMENT AUTHORITY
SOP:	STANDARD OPERATING PROCEDURE

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1 Introduction

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

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

In India, 199 districts have been identified to be multi – hazard prone. 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/ Magistrate/ Deputy Commissioner.

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

The previous disaster management plans of the Surat district are mainly disaster specific contingency plans. Those plans reveal the following facts:

- i) Plan documents are too voluminous to be easily understood by users.
- ii) The command and control of relief efforts is not optimal
- iii) Integration of response is not effective
- iv) The mitigation, prevention and preparedness aspects are not addressed.

Secondly, 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 **Surat** district administration has used a **multi-disaster approach** (all disasters covered by one plan) while developing disaster management plan for the district.

1.1 Aims and Objectives

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

1.2 Evolution of the plan

Gujarat Act No. 20 of 2003, THE GUJARAT STATE DISASTER MANAGEMENT ACT, 2003 states mandatory provision of the Disaster Management plan as per the following clause & sections

Clause 15 of Chapter VI

1. The authority shall develop or cause to be developed guidelines for the preparation of disaster 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) Communities and property at risk;
 - (c) Provision for appropriate prevention and mitigation strategies;
 - (d) Inability to deal with disasters and promote capacity building;
 - (e) The integration of strategies for prevention of disaster and mitigation of its effects with development plans, programme and such other activities in the State;
 - (f) Provision for assessment of the nature and magnitude of the effects of a disaster;
 - (g) Contingency plans including plans for relief, rehabilitation and reconstruction in the event of a disaster, providing for-
 - (i) Allocation of responsibilities to the various stakeholders and coordination in carrying out their responsibilities,
 - (ii) Procurement of essential goods and providing essential services,
 - (iii) Establishment of strategic communication links,
 - (iv) Dissemination of information, and
 - (v) Other matters as may be provided for in the regulations.

(h) Any other matter required by the Authority.

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

1.3 How to use the plan

The present plan is not intended to provide comprehensive explanations and background information about a disaster or serve as a training manual on how to respond to a disaster or conduct a disaster-related task. The approach taken is that plans and SOPs should be limited to the minimum information 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.

1.4 Authority for the plan

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

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

1.5 Sendai framework of Disaster Risk Reduction

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.

1.5.1 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, nonbinding agreement that recognizes that the State has the primary role in reducing disaster risk, but that responsibility should be shared with other stakeholders including local government, the private sector and other stakeholders.

The Four priorities of action are:-

- (i) Understanding Disaster Risk
- (ii) Strengthening Disaster Risk Governance to Manage Disaster Risk
- (iii) Investing in Disaster Risk Reduction for Resilience
- (iv) Enhancing Disaster Preparedness for Effective Response and to 'Build Back Better' in Recovery, Rehabilitation and Reconstruction

The seven global targets are:

- i) 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
- ii) 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
- iii) Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030
- iv) 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
- v) Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020
- vi) Substantially enhance international cooperation to developing countries through adequate and sustainable support to complement their national actions for implementation of this Framework by 2030
- vii) Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030

Sustainable Developmental Goals

The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by all United Nations Member States in September 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. The 17 SDGs are integrated; they recognise that action in one area will affect outcomes in others and that development must balance social, economic and environmental sustainability. They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change

and working to preserve our oceans and forests. To make the 2030 Agenda a reality, broad ownership of the SDGs must translate into a strong commitment by all stakeholders to implement the global goals.

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

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

The State Disaster Management Plan (SDMP) has tried to envisage state coherence. 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:

- i. All development sectors to imbibe principles of Disaster Risk Management
- ii. Work towards risk coverage for all, starting from poor households to small and medium enterprises to multi-national corporations to nation states.
- iii. Encourage greater involvement and leadership of women in disaster risk management.
- iv. Invest in risk mapping globally related to hazards such as earthquakes based on widely accepted standards and parameters.
- v. Leverage technology to enhance the efficiency of disaster risk management efforts.
- vi. Develop a network of universities to work on disaster issues.
- vii. Utilize the opportunities provided by social media and mobile technologies.
- viii. 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.
- ix. Ensuring that disaster learning is well documented.
- x. Bring about greater cohesion in international response to disasters

1.6 Stakeholders and their responsibilities

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

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

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

District Collector:

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

The District Collector may-

1. Make arrangements for release and use of available resources
2. Control and restrict traffic to, from and within the area affected by a disaster
3. Control and restrict the entry into, movement within and departure from any disaster area or part of it
4. Remove debris
5. Conduct search and rescue operations
6. Make arrangements for the disposal of the unclaimed dead body, by appropriate means
7. Provide alternative shelter
8. Provide food, medicines and other essentials
9. Require experts and consultants in the matters relevant to the disaster to provide relief under his direction and supervision
10. To take possession and make use of any property, vehicles, equipment, buildings and means of communication on such terms and conditions as may be prescribe
11. Procure exclusive or preferential use of amenities as and when required
12. Construct temporary bridges or other structures
13. Demolish unsafe structures which may endanger the public
14. Coordinate with non-governmental organizations and ensure that such entities carry out their activities in an equitable manner
15. Disseminate information to the public to deal with the disaster
16. Direct and compel evacuation, of all or part of the population from any affected area for the purpose of preservation of life and for such evacuation, and for such evacuation use such force as may be necessary
17. authorize any person, to make any entry into any place, to open or cause to be opened, any door, gate or other barrier, if he considers such an action is necessary for preservation of life and property, if the owner or occupier is absent, or being present, refuses to open such door, gate or barrier

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

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

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

1.7 Roles and responsibilities

The Collector

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

Local Authority

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

Private Sector

- The private sector should ensure their active participation in the pre-disaster activities in alignment with the overall plan developed by the GSDMA or the Collector.
- They should also adhere to the relevant building codes and other specifications, as may be stipulated by relevant local authorities.

Community Groups and Voluntary agencies

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

Citizens

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.

1.8 Scope of the Plan

The District Disaster Management and Response Plan for Surat 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.

1.9 Approach to Disaster Management

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

Warning, Relief and Recovery

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

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

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

Mitigation, Preparedness and Prevention

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

- Long term planning for mitigation, preparedness and prevention investments in the district,
- Enforcement of regulations, particularly building and safety codes and land use plans,
- Review and evaluation of development plans and activities to identify ways to reduce risks and vulnerability, and,

- Capacity building including warning, the provision of relief and recovery assistance and community-level identification of risk and vulnerability

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

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

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

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

1.10 Finance

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

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

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

1.11 Plan review and updation

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

Plan maintenance is a dynamic process of updating the plan on a periodic basis. The backbone of maintaining the plan is carrying out mock drills and updating the plan based on the lesson learnt as an outcome of the mock exercise, which consists of identifying the gaps and putting in place a system to fill the same. The District Disaster Management Plan shall be reviewed and updated regularly by annually/half yearly and updated

- When significant changes in the nature of any hazards
- Lessons learnt following any major disaster or
- When there is any significant change to organization or responsibility of primary members of the task forces defined in the plan.

- DDMC shall compile its learning and proposed new mechanisms for improvement of the capacity to deal with disasters
- Drills and Rehearsals
- Recommendations from all line Depts. in their Report
- Lessons learnt from any disaster event in other district and state
- Directions from National Disaster Management Authority, GSDMA, Government of Gujarat, Revenue Department etc.

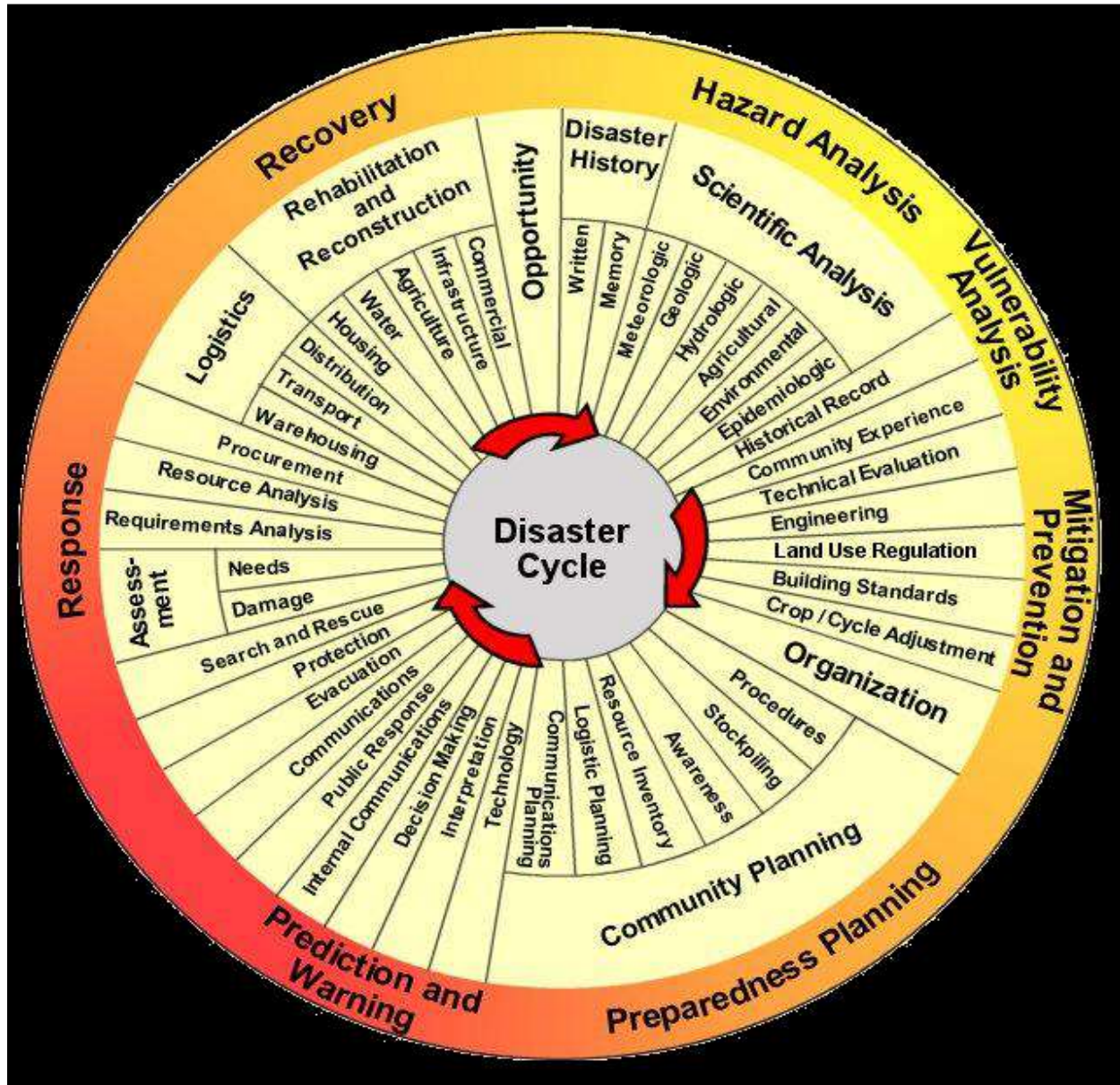


Figure 1-1 Disaster management cycle

2 Hazard Vulnerability and Risk Assessment

For the assessment of disasters an inclusive analysis by Hazard, Vulnerability and Risk assessment is to be done.

2.1 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.

Matrix of past Disaster

Table 2-1 Matrix of past disasters

Disaster	Year	Magnitude /extent	Talukas & no. of villages affected	Life & cattle loss	Damage to property	Economic losses
Earthquake	2001	-	-	-	-	-
Cyclone	2021	Severe	10	1 Human 11 Animal	-	-
Flood	2006 2013	Heavy rain		-	-	-
Heat wave	--	--	--	--	--	--
Cold wave	--	--	--	--	--	--
Industrial disaster	2013	--	IOCL Hazira Choryasi taluka	--	--	--
Epidemic	2020 2021 2022	-	All	Life Loss	--	--

- Surat District is in Seismic zone III so the 2001 Earthquake has not caused much devastating effect, but as it has many coastal areas so the vulnerability from Tsunami or Cyclone is of considerable amount.

2.2 Hazard Risk Vulnerability Assessment (HRVA)

Complete the hazards column for the following table. Typical hazards have already been identified, but these should be confirmed at this step and additional hazards added as appropriate with latest experiences.

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

Probability

Table 2-2Probability assignment

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

Assign the Impact Ratings

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

Impact Ratings

Table 2-3 Impact rating

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

Assign the "Vulnerability" Ranking

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

Vulnerability" Ranking

Table 2-4Vulnerability Ranking

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

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

Table 2-5Vulnerability analysis table

Hazard	Probability	Impact	Vulnerability Rating (Probability times Impact)	Specific Locations and populations of concern
Earthquake (resulting in damage)	3	4	Moderate-12	Bardoli, Mahuva, Palsana, Mandvi, Mangrol, Umarpada, Kamrej, Choryasi, Olpad, Surat City
High Wind (Cyclone)	2 3	2 3	Low - 4 Moderate- 9	Bardoli, Mahuva, Palsana, Mandvi, Mangrol, Umarpada, Kamrej, Surat City Choryasi, Olpad, Majura
Sea Surge (Cyclone)	2	2	Low – 4	Olpad, Choryasi, Surat City
Flood	4	4	High – 16	Bardoli, Mahuva, Palsana, Mandvi, Mangrol, Kamrej, Choryasi, Olpad Surat City

Industrial Accident	2	1	Low-2	Olpad Choryasi, Mandvi (KAPS Plant)
Drought	2	2	Low-4	
Heat wave	3	2	Low-6	Bardoli, Mahuva, Palsana, Mandvi, Mangrol, Umarpada, Kamrej, Choryasi, Olpad, Surat City
Cold wave				
Landslides Mudflows	1	1	Low-1	
Dam Failure	1	1	Low-1	Ukai
Mine fires/collapse	2	1	Low-2	
Road/rail/air accident	5	3	High-25	Bardoli, Palsana, Mandvi, Mangrol, , Kamrej, Choryasi, Olpad, Surat City
Oil spill & Road (marine)	2	5	Low-2	Choryasi
Boat sinking	-	-	-	-
Building collapse	1	2	Low-2	All Taluka
Communal Disease (epidemics)	1	1	Low-1	
Food poisoning	1	1	Low-1	Bardoli, Mahuva, Palsana, Mandvi, Mangrol, Umarpada, Kamrej, Choryasi, Olpad, Surat City
Animal disease (epidemics)	1	1	Low-1	Bardoli, Mahuva, Palsana, Mandvi, Mangrol, Umarpada, Kamrej, Choryasi, Olpad
Terrorism (consequences)	-	-	-	-
Critical Infrastructure Failure (e.g. extended power outage)	1	3	Low-3	Ukai Dam
Civil Unrest	1	1	Low-1	
WAR	-	-	-	-
Tsunami	-	-	-	-
Nuclear Emergency	5	5	16 high	Bardoli Mandvi (101 Villages)

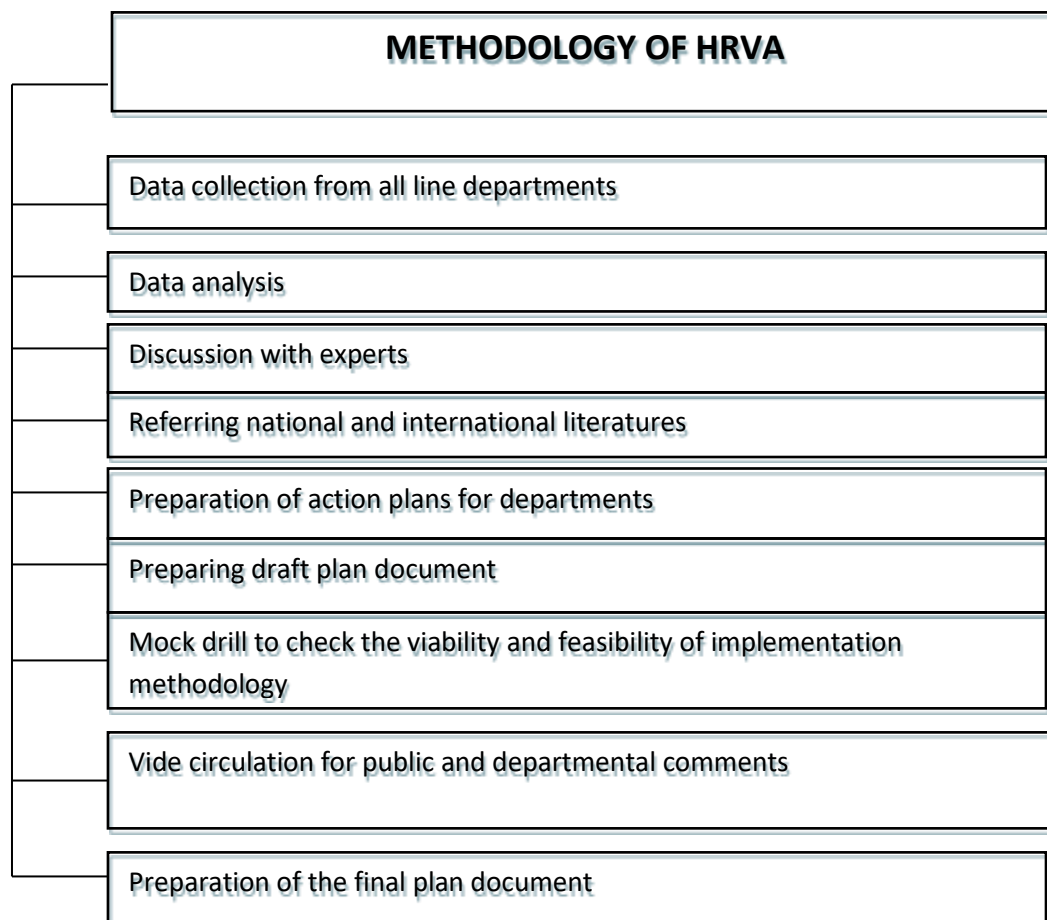
Assess the probability-or "livelihood" of each hazard by reaching a consensus on probability and then assign each hazard a "Probability Level," as indicated in the following table. Enter the score for each hazard in the probability column of the table in.

Note that the rating process presumes that:

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

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

Tool and methodology used for HRVA



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

Table 2-6 Probability of occurrence of disaster

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

Identify Areas with Highest Vulnerability

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

Outcome

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

2.4 Hazard analysis:

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

1. Earthquake

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

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

2. Flood

Flood is a major disaster in Surat District. There are many small and big rivers in Surat District like, Tapi, Purna, Mindhola, Ambika, kim , etc. Ukai Dam is situated in Surat District and due to the heavy rainfall in catchment area of Ukai Dam Site leads to released high amount of water and which affects the Many Villages of surat District and tapi District as well.

Regulations would include.

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

To meet these requirements, local governments will have to adopt specific flood 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 fast they flowed and how much debris they left behind and
- Find out how often flooding has happened, over at least the past 20 years.

3. Cyclone

In meteorology, a cyclone is an area of closed, circular fluid motion rotating in the same direction as the Earth. This is usually characterized by inward spiraling winds that rotate counter

clockwise and clockwise of the Earth. Most large-scale cyclonic circulations are centered on areas of low atmospheric pressure. The largest low-pressure systems are cold-core polar cyclones and extra tropical cyclones which lie on the synoptic scale.

As Surat district's border is directly connected to sea shore so the effects possibilities of Cyclone emerged from Arabian Sea in Surat district is more.

4. Industries & Chemical Hazards:

Choryasi taluka is highly vulnerable for Industries & Chemical Hazards because of Hazira Notied Area and MAH units under the area. As per the district offsite plan, it affects the 11 villages the detail is mention below.

Sr. No	Name of Vllage	Population	Sr. No	Name of Vllage	Population
1	Limla	5675	7	Dumas	7266
2	Mora	7416	8	Sunvali	2573
3	Kawas	2215	9	Rajgari	1009
4	Bhatpor	2327	10	Damka	4039
5	Ichchapor	5144	11	Bhatlai	1303
6	Vanta	472			

Cities pandesara, Udhana, Limbayat & athwa zone is vulnerable for chemical disaster. In pandesara, Udhna the powerlooms, Dying-Printing Mills & Embroidery factories creates the chemical disaster. Some of them storage the chemical which created the chemical disaster probability. Athwa & Rander zone is near the Hazira Notifies Area, & also near having Magdalla port. Resident near the area vulnerable for chemical & Industrial Hazard. The detail of affected villages and evacuation centers which is linked from Offsite Plan Surat-2010.

Gas pipelines, Chemical plants & industrial units in olpad taluka. The cyanide chemical company which produce potassium cyanide, Potassium pharos cyanide, Sodium cyanide, Sodium Pharos cyanide & other chemicals, If any hazard occurs in the company the processing chemical ammonia gas & other dangerous gases creates the disaster in nearby area.

5. Tsunami

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

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

6. Epidemics

The Public Health Department is the nodal agency responsible for monitoring and control of epidemics. Local governments and municipal authorities also have a responsibility for taking appropriate steps in this context. Therefore, success of mitigation strategy for control of epidemics

is depending on the type of coordination that exists between the Health Department and local authorities. Mitigation efforts for control of epidemics would include

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

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

7. Drought:

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

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

8. Nuclear Power Radiation:

Mandvi taluka have a Kakrapar Atomic Power Station. Atomic radiation creates the disaster. The KAPS have prepared their confidential disaster plan. Any emergency in KAPS, the focal officer is Station Director. As per KAPS plan, in Surat district 82 villages of Mandvi and 19 villages of Bardoli taluka are affected. List of villages falling under Emergency Planning Zone (EPZ) is shown below.

Mandvi Taluka				Bardoli Taluka				
Wareth	Kevadi	Tarasadabar	Nandapur	Kalamkuwa	Ladkuva	Salaiya	Balda	Orgam
Badtal	Ambapor	Jakhla	Kasal	Zari Dadhwada	Choramba	Tarsada Khurd	Wanskui	Bamani
Sathvav	Karanjvan	Birma	Rupen	Jetpur	Kakrapar	Umarkhadi	Bhensudala	Haripura
Makanzar	Rajwad (M)	Uskedkhurda	Kakadava	Rakshakhadi	Batkhai	Gamtalao Khurd	Nanibhatalv	Uchhrel
Lakhgam	Wankla	Godawadi	Valargadh	Nanicher	Dadhwada	Regama	Madhi	Samthan
Katkuva	Beddha	Un	Moritha	Ratania	Sarkui	Gordha	Surali	Miyawadi
Fulwadi	Pipalwada	Umarsadi	Amba	Sadadi	Balaltirtha	Kimdungra	Rajvad	Kadod

Kharda	Amalchuni	Kamlapor	Titoi	Jamankuva	Magtara	Dadakui	Masad	Singod
Maldha	Chandpur	Kosadi	Kalbel	Amalsadi	Mahudi	Gamtalav Bujgranj	Nasura	Junwani
Visdalia	Haripura	Kharoli	Unteva	Pardi	Moticher	Godsamba	Wadhvania	
Junvana	Karuda	Mandvi	Khodamba	Karvali	Kherdpur			
Tarapur	Gangapur Harsad	Vaghnera	Ghantoli	Bori	Puna			

3 Institutional Arrangements

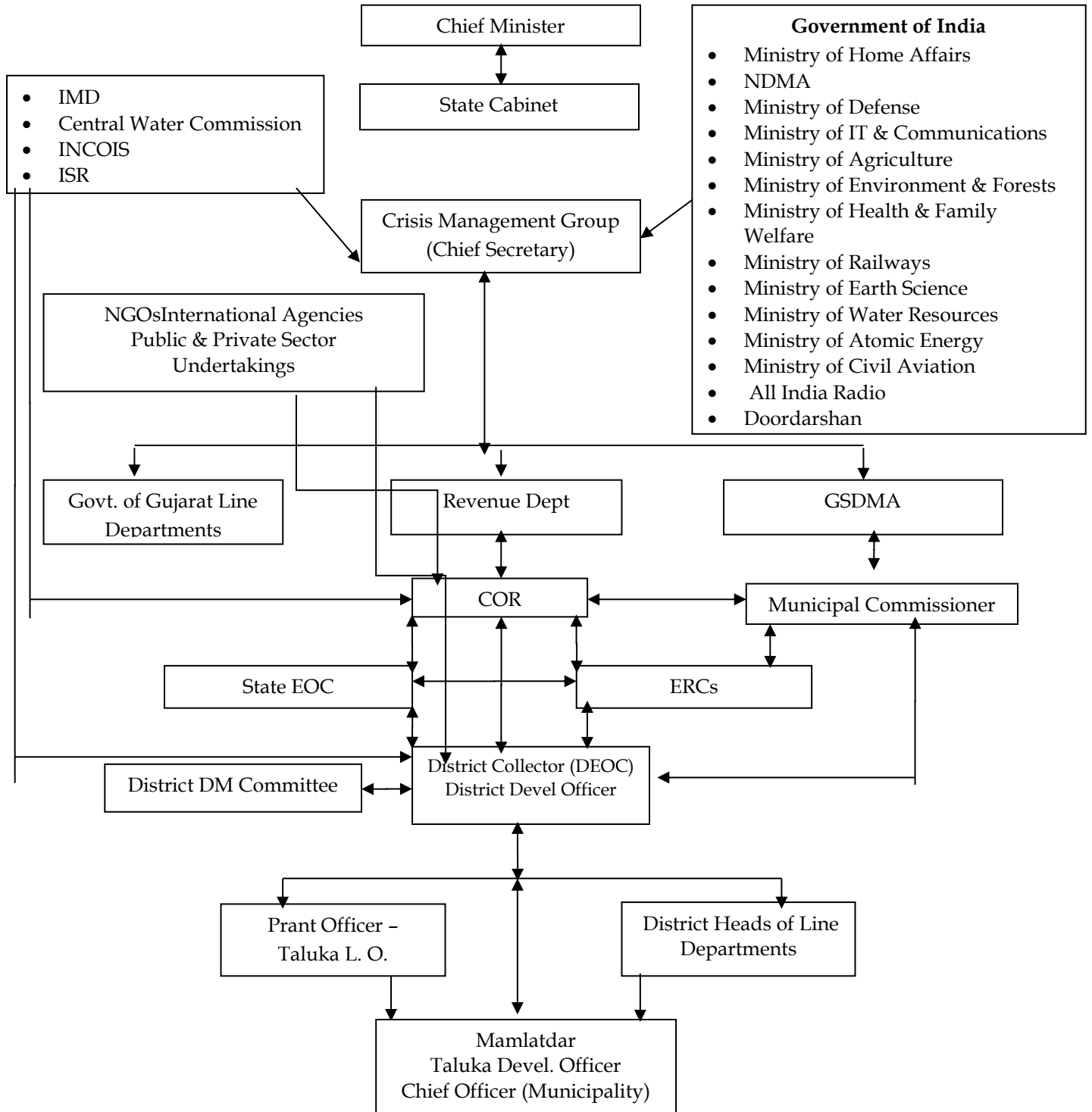
The plan incorporate multi level institutional as well as response planning mechanism at district level.

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

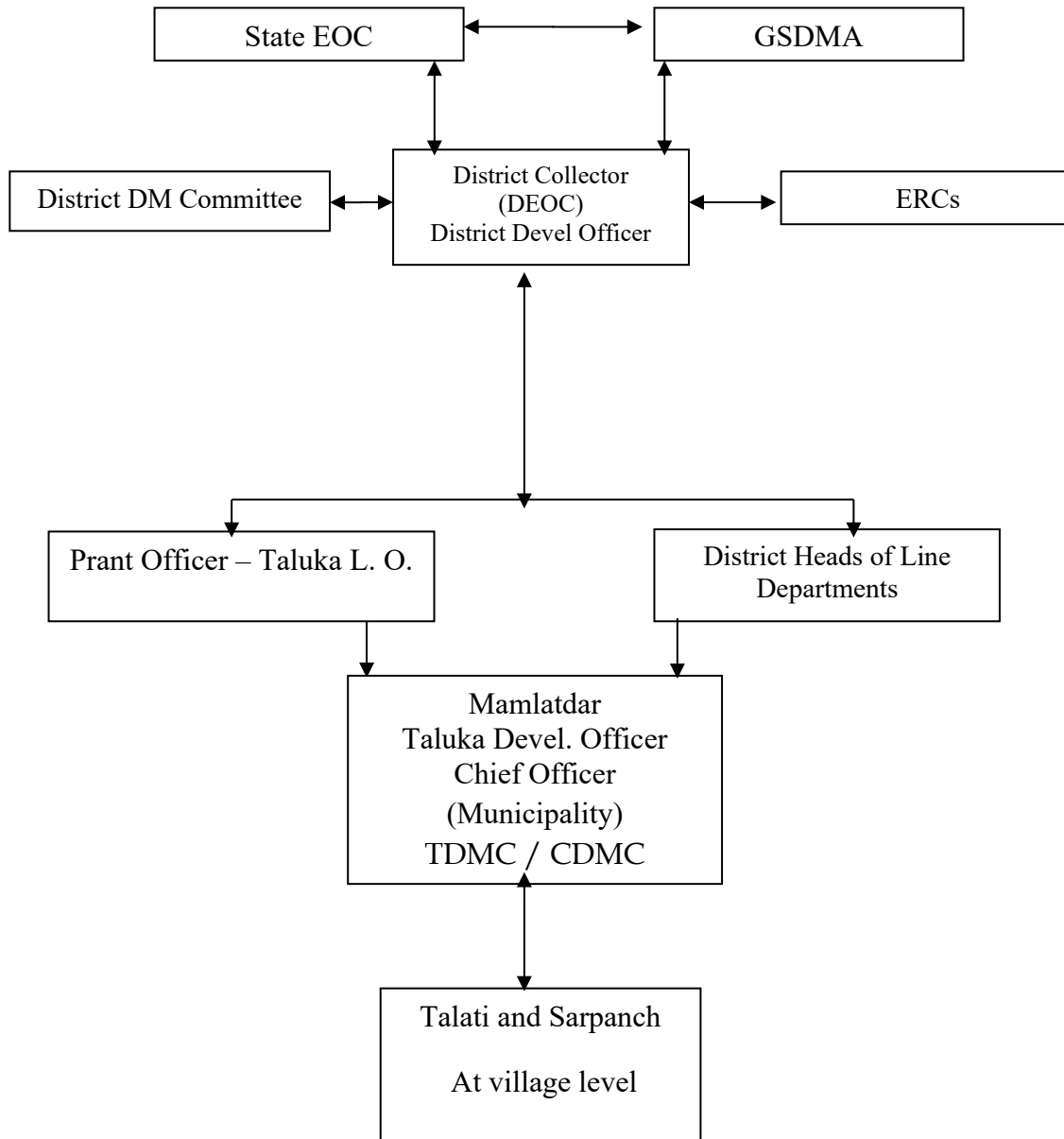
The Revenue Department of the State is the Nodal Department for controlling, monitoring and directing measures for organizing rescue, relief and rehabilitation. All other concerned line departments should extend full cooperation in all matters pertaining to the response management of the disaster whenever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

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

3.1 D.M. Organizational Structure In The State



3.2 D.M. Organizational Structure In The District



3.3 District Disaster Management Committee

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

Sr. No.	Designation	Position in DCMG
1	Collector/ District Magistrate	Chairmen
2	District Development officer	Member
3	District Superintend Police	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	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

3.4 Incident Response System in the Surat District

1. Disaster Response and District Incident Command System

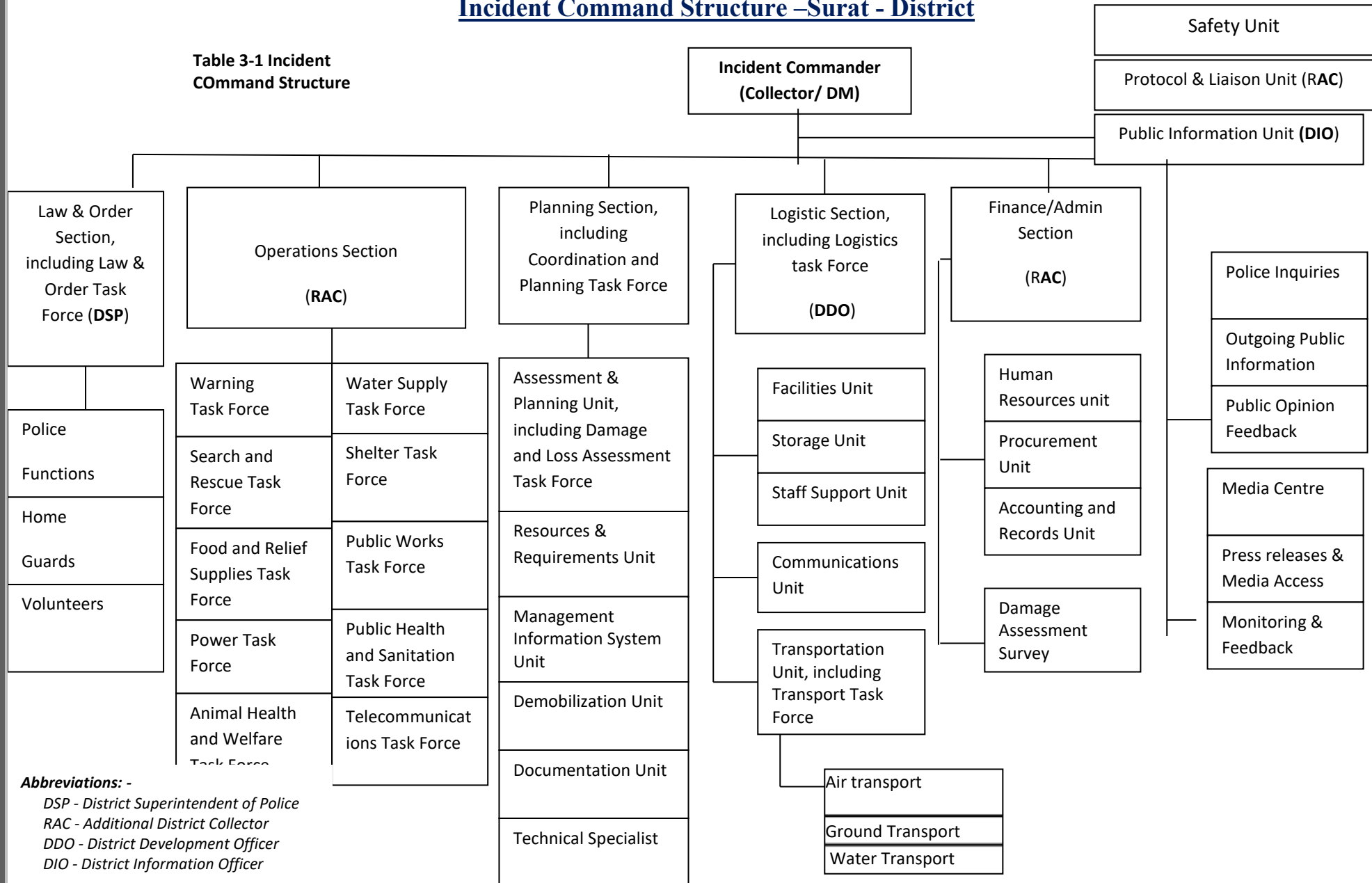
The response to disasters in the district will be organized according to the Incident Command System as adopted to conditions in Gujarat State (ICS/GS). The argument for the ICS is that its fundamental elements –unity of command, clarity of objectives and efficient resource use are common to the effective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

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

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

Incident Command Structure –Surat - District

**Table 3-1 Incident
Command Structure**



3.4.1 ICS-Basic Functions

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

I. Incident Commander :

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

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

II. Command Staff Units

A) Safety unit:

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

B) Protocol and Liaison unit:

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

C) Public Information Unit:

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

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

III. Law and Order Section

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

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

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

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

IV. Operation Section

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

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

Emergency Operation Taskforce Functions

Table 3-2 Emergency operation taskforce functions

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

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

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

V. Planning Section

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

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

VI. Logistic section

Responsible for all task and functions related to provision of material and other resources needed for operations and the physical and material support and operation of the incident

management team. This section include transportation taskforce established to support disaster operations. Logistics tasks are through the following units:

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

VII. Finance and Administration

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

2. Procurement
3. Accounting and records

3.5 Cross-Task Force Action Matrix

(Gray areas indicate where cooperation between task forces was noted as needed during action plan development.)

Table 3-3 Cross-Task Force Action Matrix

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

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

Table 3-4 Task force, supporting organizations vis-a vis ICS/GS section matrix

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

DISTRICT INCIDENT COMMAND STRUCTURE-KEY OFFICERS

Incident Commander -District Collector: - 9978406222

Alternate Incident Commander- Resident Additional Collector: -9978405220

Sr. No.	Taskforce	Taskforce Operation Room/Contact Number	Taskforce leader/Contact Number	TASKFORCE-Alternate LEADER /Contact Number
1	Warning and Communications	RAC Office	RAC	Mam. Disaster Management 026-2663200 F-0261-2664800
2	Law & Order	Police Control Room (CR)	DSP:-	Dy. SP/
3	Search & Rescue	Dy. Collector or Chief Fire Officer	Chief fire Officer	Chief Officer
4	Public Works	R&B-CR	Ex. Engr, R&B/	Dy. Engr.
5	Shelter	Education . Office-CR	District Primary Edu. Officer/	Dy. District Primary Edu. Officer
6	Water Supply	GWSDB-CR	Ex. Engr. GWSDB/	Ex. Engr. Water orks, /
7	Food & Relief supplies	DSO-CR &DDO office	District Supply Officer/	Dy. DDO office
8	Public Health & Sanitation	District Health Centre,	CDHO/	Add. CDHO
9	Power	GEB-CR	Supt. Engr. GEB/	Ex. Egg. GEB
10	Logistics	DDO office	DDO	Dy. DDO/
11	Animal Health & Welfare	A & H Office	Dy. Director, A&H/	Ass. Director A&H
12	Damage Assessment/Survey	RAC office	RAC	Mam. Disaster Management
13	Media/public Information	Information Dept. CR	District Info Officer/	Dy. DIO/
14	Planning and coordination	Collector's office	Collector/	RAC
15	Finance/ Administration/ Protocol	RAC office	RAC	Mam. Disaster Management

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

3.6 EOC setup and facilities available with the location

District Emergency Operation Centers/Control Rooms (DEOC)

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

The District Control Room is located near the Collector office District Surat. It is also the central point for information gathering, processing, and decision making, more specifically, to combat the disaster. Most of the strategic decisions about the management of disasters are made in this control room based on the information gathered and processed. The Incident Commander takes charge of the District Control Room and commands the emergency operations as per the Incident Command System organizational chart.

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

- **Facilities at District Emergency Operation Centers**

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

Sr. No.	Item/ Facility	Unit/ Number of item
1.	Telephones	3
2.	Satellite Telephone	3
3.	PC with GSWAN Internet facilities	3
4.	Marker board	4
5.	Conference table	1
6.	A copy of Disaster Management Plan	5
7.	Drawings showing Disaster information	As Needed
8.	Other relevant documents of district information	As Needed
9.	Chairs	20
10.	Fax machine	1
11.	Printer	4
12.	EERR Kit	1

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

The Taluka Emergency Operation Centers are located at the Office of Mamlatdar. The Liaison Officers of the respective Talukas shall take charge of the Control Room without any orders at the time of any incident. The respective Liaison Officers shall coordinate between the task group members working at disaster sites and TFOR to mobilise resources and disseminate instructions received from TFOR/DEOC.

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

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

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

The following facilities are maintained inside TFCR:

- Telephones

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

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

The following facilities are maintained inside TFCR:

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

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

DCR (DEOC) : District Collector or any person nominated

TFCR : Respective Task Force Leader

TLCR (TEOC) : Respective Taluka Liaison Officer

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

Emergency Communication Systems

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

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

Synthesized Radio Communication

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

Sr. No.	Task Force / Functional Area	Channel
1.	DCR	1
2.	Law & Order & its TFOR	2
3.	Search & Rescue & its TFOR	3
4.	Public Works & its TFOR	4
5.	Shelter & its TFOR	5
6.	Water Supply & its TFOR	6

7.	Food & Social Service & its TFOR	7
8.	Power & its TFOR	8
9.	Public Health & Sanitation & its TFOR	9
10.	Logistics & its TFOR	10
11.	Animal Health & Welfare & its TFOR	11
12.	Relief Supplies & its TFOR	12
13.	Communication & its TFOR	13
14.	Survey & its TFOR	14
15	Taluka Level Control Room (TLCR)	15

At present, “Hand held 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 TEOC Control Rooms.

3.7 Alternate EOC available and its location

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

Alternate Communication System

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

Satellite Communication System

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

Messengers

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

Right use of Communication facility

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

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

3.8 Public and private emergency service facilities available in the district

Surat district has One fire station in surat Mun, Corporation and Three Fire stations in Respective three nagarpalika.(Bardoli, Mandvi and Tarsadi Nagarpalika). These emergency services are fully equipped with various equipment and trained personal which are used in search and rescue operation during disaster situation.

3.9 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 & Family Welfare Department
7	Industrial & Chemical Accidents	Industry, Labor& Employment Department, DISH
8	Fire	Fire & Emergency Services

4 Prevention and Mitigation Measures

4.1 Prevention measures in development plans and programs

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

Mitigation measures can be divided in two categories:

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

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

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

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

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

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

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

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

4.2 Hazard wise structural and non- structural mitigation measures

Hazard: Flood

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

Table 4-1 Structural Mitigation Measures for Flood

Probable Mitigation Measures	Implementing Departments	Convergence with Scheme/ Program	Time Frame
Desilting and deepening of water channel (khans)	Irrigation and Rural Development, GLDC	Departmental program & MGNREGS,	Regularly
Construction of embankments/ protection wall	Rural Development, Forest	Departmental program & MGNREGS, watershed	Regularly
Repair of embankments/ protection wall	Rural Development, R&B department	Departmental program & MGNREGS	Regularly
Repair and maintenance of Flood Channels, canals, natural drainage, storm water lines	Irrigation department Concern Municipality	Departmental or special plan	Regularly
Construction of Safe Shelters (new construction through Indira Awas, Sardar Awas and Ambedkar Awas)	Collector and R&B District Panchayat		Regularly
Protection wall and mangroves and vegetative cover against sea level intrusion and land erosion	Forest and Rural development department GEC	Department schemes, MGNREGS, IWMP	Regularly
Desalting of water bodies like river and ponds	Irrigation DDORural Development	MGNREGA and Land Development	2014-15

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

Table 4-2 Non-Structural Mitigation Measures for Flood

Non-Structural measures	Implementing Departments	Convergence with agency/program	Time Frame
Safety audit of existing and proposed housing stock in risk prone areas	DDO, Rural development	IAY, Sardar Awas and other rural housing schemes	Regularly
Promotion of Traditional, local and innovative 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

Hazard: Cyclone

Structural Mitigation Measures for Cyclone

Table 4-3 Structural Mitigation Measures for Cyclone

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

Non-Structural Mitigation Measures for Cyclone
Table 4-4 Non-Structural Mitigation Measures for Cyclone

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

Hazard: Earthquake

Structural Mitigation Measures for Earthquake
Table 4-5 Structural Mitigation Measures for Earthquake

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

Non Structural Mitigation Measures for Earthquake
Table 4-6 Non Structural Mitigation Measures for Earthquake

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

Hazard: Drought

Structural Mitigation Measures for Drought
Table 4-7 Structural Mitigation Measures for Drought

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

Non-Structural Mitigation Measures for Drought
Table 4-8 Non-Structural Mitigation Measures for Drought

Non-Structural measures	Locations / coverage area	Implementing Departments	Convergence with agency/ program	Time Frame
Listing/developing shelf of work for drought proofing/scarcity works including Identification of potential sites of water bodies		Rural Development	MGNREGS	Regularly
Farmer education to practice drought resistant crops and efficient water use		Agriculture & horticulture department	Departmental schemes	Regularly
Set up control mechanism for regulated water use (ponds, small dams, check dams) on the early onset.		Panchayats		Regularly

Hazard : Industrial (Chemical)

Industrial (Chemical) Structural Measures
(in coordination with LCG, DCG district and state level authorities)
Table 4-9 Industrial (Chemical) Structural Measures

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

Industrial (Chemical) Non-Structural Measures
(in coordination with LCG, DCG, district and state level authorities)

Table 4-10 Industrial (Chemical) Non-Structural Measures

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

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

Hazard: Tsunami

Structural Mitigation Measures for Tsunami

Table 4-11 Structural Mitigation Measures for Tsunami

Structural measures	Identified Locations and Villages	Implementing Departments	Convergence with Scheme/ Program	Time Frame
Constructing shelter belts in coastal areas	No coastal area	Rural Development	Departmental programs , MGNREGA	Long term planning
Contraction Sea water brake structure		R & B State and panchayat	Departmental programs , MGNREGA	Long term planning

Non-Structural Mitigation Measures for Tsunami

Table 4-12 Non-Structural Mitigation Measures for Tsunami

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

4.3 Structural: Structural Mitigation Measures

- a. **Retrofitting of Buildings:** Surat district come in Zone III in Earthquake. In Tapi region maximum buildings are engineered or, having good 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 & 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 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, hostels, 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 in 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 & seismic strengthening of buildings

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

4.4 Non-structural

Land use planning: Damage to a building depends primarily upon the soil conditions and topology of the area. Surat district comes under Moderate risk zone in terms of earthquake (Zone 3)

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 public.

Mitigation strategies

The mitigation strategy for Surat district involves the following elements:

- Further growth of human settlements in the low-lying areas should be checked 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 & non-engineered constructions, and should be strictly enforced by 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.

4.5 Special Projects for Vulnerable Groups

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, afforestation, 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 employers 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. Building of Roads for places which are not connected to other parts of the district.
3. Leveling of low lying areas during 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.

Awash Yojanas :

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:

This scheme can be used to facilitate for voluntary first aid during 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 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.

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

In order to achieve the objectives, rollout workshop was held for sensitization of education department officials, district level administrators (District Education Officers & District Primary Education Officers), teachers and students. Eighty six master trainers were trained in 4 regional workshops, 593 teachers were trained throughout the State in 3 day

workshops. Twenty five model schools were selected where 25,543 students and 861 teachers have been trained. One model school developed for each district. Methodology for School Safety program has been developed and tested, including templates for developing a School Disaster Management Plan. Training and awareness material has been developed. Also, draft text books for class VII, VIII IX were prepared incorporating the basics of Disaster Management.

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 31336 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 show to all government primary schools through the satellite network.

5 Preparedness Measures

5.1 Formation of Persons and trainings

5.1.1 Search & rescue

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

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

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

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

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

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

- A Class IV Officer (Health Dept.)

Early Warning:

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

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

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

Evacuation:

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

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

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

- Identification of appropriate shelter areas based on safety, availability of facilities, capacity and number of victims

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

Types of evacuation

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

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

Principles of Evacuation Planning

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

Stages of Evacuation

There are five stages of evacuation as under:

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

- Safe return of personnel on return of normalcy

Decision to Evacuate

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

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

Basic consideration for Evacuation

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

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

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

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

Evacuation Warning

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

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

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

5.1.2 Damage & Loss Assessment

Immediately after the disaster, there is an urgent need of damage assessment in terms of loss of life, injury and loss of property. The objectives of damage assessment are to mobilize

resources for better rescue and relief, to have detailed information of damage extent and severity of disaster and to develop strategies for reconstruction and restoration facilities.

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

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

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

5.3 Training, capacity building and other proactive measures Training:

Table No. 5.3
Table 5-1 Training

Sr. No.	Task / Activity	Responsibility
1	Training to civil defense personal in various aspect of disaster management	Home Department
2	Training to home Guards personal in various aspect of disaster management including search and rescue	Dy. Controller Civil Defense District Home Guards Commandant
3	Training to NCC and NSS personal in various aspect of disaster management	Education Department NCC Collector Office
4	Training to educational and training institutions personal in various aspect of disaster management	DDMC
5	Training to civil society, CBOs and corporate entities in various aspect of disaster management	DDMC
6	Training to fire and emergency service personal in various aspect of disaster management	Fire Dept, CDMC DDMC
7	Training to police and traffic personal in various aspect of disaster management	DDMC Police Dept.

8	Training to media in various aspect of disaster management	DDMC Information Dept.
9	Training to govt. officials in various aspect of disaster management	DDMC
10	Training to engineers, architects, structural engineers, builders and masons in various aspect of disaster management	DDMC, R & B

Awareness

Table 5-2 Awareness activities

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

5.4 Activation of Incident Response System in the District and identification of quick response team

Command:

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

- Public Information Officer – the single media point of contact
 - Safety Officer – Responsible for identifying safety issues and fixing them, he has the authority to halt an operation if needed.
 - Liaison Officer – Point of contact for agency to agency issues.
1. **Operations:** this section carries out the response activities described in the Incident Action Plan (IAP) along with coordinating and managing the activities taken the responding agencies and officials that are directed at reducing the immediate hazard, protecting lives and properties. This section manages the tactical fieldwork and assigns most of the resources used to respond to the incident. Within operations, separate sections are established to perform different functions, such as emergency services, law enforcement, public works...etc.

2. **Planning:** this section supports the disaster management effort by collecting, evaluating, disseminating, and uses information about the development of the emergency and status of all available resources. This section creates the action plan, often called “Incident Action Plan” (IAP), which shall guide emergency operations/response by objectives.

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

- Collecting, evaluating, and displaying incident intelligence and information
 - Preparing and documenting IAPs
 - Conducting long-range and contingency planning
 - Developing plans for demobilization
 - Maintaining incident documentation
 - Tracking resources documentation
3. **Logistics:** the process of response includes personnel, equipments, vehicles, facilities...etc, all of which will depend upon the acquisition, transport, and distribution of resources, the provision of food and water, and proper medical attention. The Logistic section is responsible for the mentioned process.
 4. **Finance and Administration:** this section is responsible for tracking all costs associated with the response and beginning the process for reimbursement. The finance and administration section becomes very important when the national government provides emergency funds in place that guarantee local and regional response agencies that their activities, supply use, and expenditures will be covered.

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

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

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

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

5.5 Checking and certification of logistics, equipments and stores

Surat district has various types of logistics and equipment. It should be check and certified by concern officer periodically. Disaster Management cell is regularly monitoring this

activity and got certification of this equipment. (Detail information of Equipment is given in Annexure)

5.6 Operational check-up of Warning System

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

5.7 Operational check-up for Emergency Operation Centre

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

5.8 NGOs and other Stakeholders Coordination – Identify their Strengths and allocation of responsibilities in area/sector/duty/activities – Activate NGO coordination cell

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

Awareness Generation: -

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

5.9 Seasonal preparedness for Seasonal Disaster like Flood and Cyclone

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

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

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 are 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.

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.

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 adjustors,

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.

5.10 SDRN/IDRN data updation

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

India Disaster Resource Network (IDRN) :-

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

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

5.11 Community Warning System, Education, Preparedness

DRM Programme:

GSDMA DRM activities:

Disaster Risk Management Programme (DRM) has taken strong roots at various levels of administration in Gujarat. The Department of Revenue & Disaster Management is the nodal Department in Government of Gujarat that handles the subject with GSDMA. Disaster Management Committees are form at various levels and are assigned the task of implementing the programme. Representation for these committees are drawn from elected representatives, officials of line departments, professional bodies, Civil Defense, NGO and CBO representatives and local opinion leaders. Major Activities are being carried out under DRM program are Plan Development at Various Levels, Emergency Resources Database maintain

through SDRN / IDRN, CapacityBuilding through Trainings & Resource Mobilization, Disaster Awareness through Orientations, Campaigning, Media Management and IEC distribution. Coordinate District Administration for all Disaster Management Activities with expertise knowledge, logistics and fund allocation.

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

For the Prepared level specific plan following process will followed.

District Level Process

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

Taluka level process

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

City-ULB level process

1. Orientation of City level officers, elected members & leaders.
2. Formation of CDMP
3. Capacity building of municipal official and concerned organizations at city level
4. Development of the CDMP.
5. Use of IEC material for create awareness at city level
6. CDMP updation on SDRN

Village Level Process

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

7. Developed Village Disaster Management Plan (VDMP)
8. Conduct mock drills for test the VDMP
9. Update VDMP twice in a year (by VDMC)

Surat district had taken the preparedness measures from village level to District level. At the villages village Task forces was formed and trained about 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 lodging, 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. These are...

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 concerted effort.

Complementary 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 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.

District-level Approaches to Mitigation, Prevention and Preparedness

Preventive measures (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 health care facilities, schools and roads
- Vulnerability reduction in flood-prone areas
- Vulnerability reduction to high winds
- Improvement of off-site Preparedness near Industrial sites.

Mitigation measure (for all disasters)

Town and Country Planning Acts and their related provisions:

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

Zoning Regulations and their related provisions:

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

Development Control regulations:

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

Government-sponsored programmers and schemes:

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

5.12 Community Warning system-Early Warning System (EWS)

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

Early Warning Action Plan

Table 5-3 Early warning action plan

Type of Action	Flood	Cyclone	Chemical and industrial accidents	Tsunami
Existing EWS	Irrigation department /dam authority/ IMD ↓ Collector ↓ Mamlatdar/TDO ↓ Villages	IMD ↓ Collector ↓ Mamlatdar/TDO ↓ Villages	Industrial Association/industries ↓ DCG ↓ LCG ↓ Mamlatdar ↓ Villages	IMD ↓ Collector ↓ Mamlatdar/TDO ↓ Villages
Responsible Agency for warning dissemination	DDMC Mamlatdar office/TDO VDMC	DDMC Mamlatdar office/TDO VDMC	DDMC Mamlatdar office/TDO VDMC	DDMC Mamlatdar office/TDO VDMC
Trained personnel	Yes	Yes	No	No

and operators available (Y/N)			(Team to be formed and trained)	(Team to be formed and trained)
Villages covered	All risk prone villages			
Villages/habitation not covered or difficult to access	Communities in remote locations (fisher folk, salt pan workers, maldharis etc) VDMC			
Measures required to improve timeliness and outreach (For example, voice enabled SMS)	Contact of communities in remote locations (fisher folk, saltpan workers, Maldharis etc)			

During and Post Disaster Advisory Action Plan

Table 5-4 During and Post disaster advisory action plan

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

5.13 Procurement various Resource

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

5.14 Protocol and arrangement for VIP Visit

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

5.15 Media Management

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

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

5.16 Documentation

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

6 Capacity Building and Training Measures

6.1 Special projects proposed and ongoing programmers for preventing the disasters

1. Disaster Risk Management Programme (DRM)

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

2. Gujarat Initiative School Safety Programme

Initiative (GSSI) – I & II. The pilot programs were designed for promoting a culture of disaster safety in schools and reduce risk through structural and non-structural measures in the schools. One hundred and fifty schools were selected from the cities of Ahmadabad (100), Jamnagar (15) and Vadodara (35) cities on basis of the school's disaster vulnerability, number of students and willingness to implement the suggested measures. The following activities were conducted in each of the project schools:

- School management was first approached and a presentation was made about why and how the concerned school can work on school safety.
- A School Safety Committee was formed with the help of school administration.
- A three-day programme on orientation of the school disaster management committee on school disaster management planning.
- Orientation about basic disaster awareness to coordinators and members of the school task forces.
- Detail training of the task force members on task force skills such as activities to be done for search and rescue, first aid, etc.
- Imparting lessons on emergency response in each classroom.
- Conducting mock drill and holding a debriefing meeting to evaluate the mock drill.

Gujarat School Safety Initiative – I is completed in all the schools, covering training of 1,00,000 students (primary and secondary standards) and 1,500 teachers in the basics of disaster management. School based DM plans were prepared for all the 152 schools. Earthquake drills were conducted in 100 schools attended by around 40,000 students and 640 teachers. As part

of the long-term sustainability of the program, an assessment of non-structural mitigation measures was completed and school safety clubs have been opened in all the project schools. A short play on disaster awareness was also organized in 68 schools.

Gujarat School Safety Initiative – II

This initiative was designed for creation of cadre of master trainers and a pool of trained teachers at district level in disaster risk reduction across all the 25 districts of the State. It was designed for creating a pool of 100 Master Trainers (4 from each district). These master trainers would provide training to 625 teachers (25 from each district). Twenty five model schools were selected & School DM Plans were prepared involving the trained teachers. It was planned that trainings will be conducted for 1,000 teachers and 7,500 students in model schools.

3. 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 cyclone and minimize the loss to property and lives in the coastal regions of the State through 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 activity will carry out like Construction of cyclone shelter for selected area.

As Surat district is vulnerable to Cyclone so projects like cyclone shelter, EWDS VSAT & siren installation are ongoing in Surat District.

7 Response and Relief Measures (Multi-Hazard)

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

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

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

7.1 Response flow chart

Response flow chart on next page

7.2 District CMG meeting

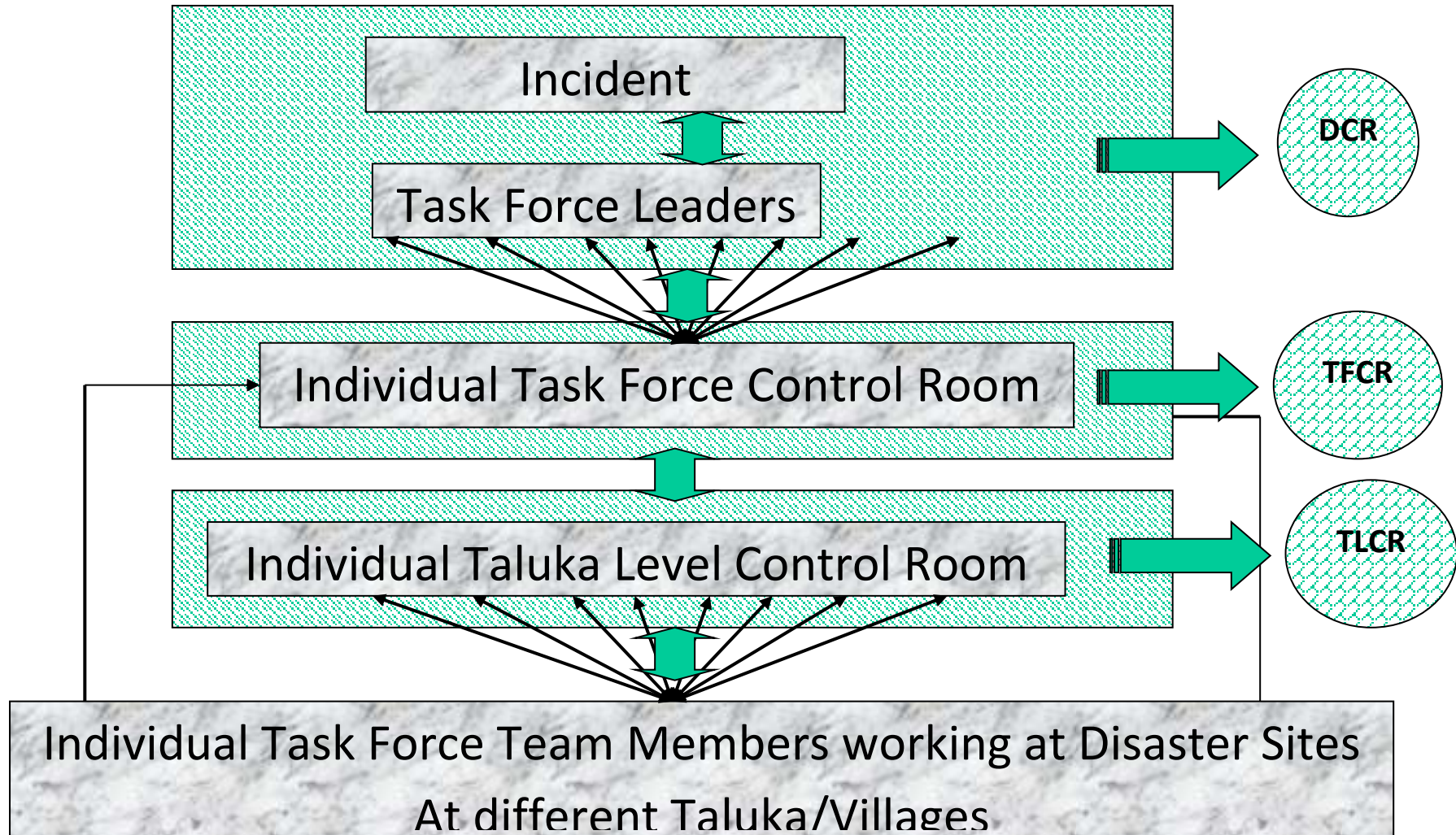
At the District level, the District Crisis Management Group (DCG) is an apex body to deal with major chemical accidents, disaster and to provide expert guidance for handling them. DCG has a strength of 34 members which includes District Collector, SDM and Dy. Collector, DDO, Dy. Director – Industrial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

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

Response flow chart and Communication Flow Chart during Disaster Management



7.4 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:

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.

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

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

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

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

7.5 Resource Mobilization

Any disaster happens in district so resources are very important for response disaster. Resource mobilization is one of most important crucial activity. As mention above about IDRN and SDRN portal are have information regarding which kind of resource are available and

location of its. IDRN and SDRN should use for resource mobilization. DDMC, TDMC, CDMC and VDMC should be update regularly.

7.6 Media Management

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

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

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

7.7 Emergency Response Functions

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

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

Emergency Operation Taskforce Functions

Table 7-1 Emergency Operation Taskforce Functions

Sr. No.	Emergency Operation Taskforce	Functions
1	Coordination and Planning	Coordinate early warning, Response & Recovery Operations
2	Administration and Protocol	Support Disaster Operations by efficiently completing the paper work and other Administrative tasks needed to ensure effective and timely relief assistance
3	Warning	Collection and dissemination of warnings of potential disasters

4	Law and Order	Assure the execution of all laws and maintenance of order in the area affected by the incident.
5	Search and Rescue (including Evacuation)	Provide human and material resources needed to support local evacuation, search and rescue efforts.
6	Public Works	Provide the personnel and resources needed to support local efforts to reestablish normally operating infrastructure.
7	Water	Assure the provision of sufficient potable water for human and animal consumption (priority), and water for industrial and agricultural uses as appropriate.
8	Food and Relief Supplies	Assure the provision of basic food and other relief needs in the affected communities.
9	Power	Provide the resources to reestablish normal power supplies and systems in affected communities.

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

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

Each Department and Govt. agency involved in Disaster Management and Mitigation will

- Designate a Nodal officer for emergency response and will act as the contact person for that department/agency □
- Ensure establishment of fail-safe two-way communication with the state, district and other emergency control rooms and within the organization.
- Emphasis on communication systems used regularly during LO with more focus on the use of VHF's with automatic repeaters, mobile phones with publicized numbers, VHF

radio sets etc. It should be remembered that SAT phones fail during prolonged emergencies and electric failure if the phones cannot be re-charged.

- Work under the overall supervision of the IC / the District Collectors during emergencies.

Other Departmental plan incorporated in DRMP

Agriculture

Prevention Activities:

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

Preparedness Activities before disaster seasons

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

Response Activities:

- 1 Management of control activities following crop damage, pest infestation and crop disease to minimize losses
- b. Collection, laboratory testing and analysis of viruses to ensure their control and eradication

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

Recovery Activities

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

Health Department

Disaster Events

Prevention Activities:

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

- Listing of vehicles, repair of departmental vehicles that will be requisitioned during emergencies for transport of injured

Preparedness Activities before Disaster Seasons

For heat wave :

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

For flood and cyclone:

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

Response activities:

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

Sanitation

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

Recovery Activities

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

Epidemics

Preventive Activities:

- Supply of safe drinking water, water quality monitoring and improved sanitation
- Vector Control programme as a part of overall community sanitation activities
- Promotion of personal and community latrines
- Sanitation of sewage and drainage systems
- Development of proper solid waste management systems
- Surveillance and spraying of water bodies for control of malaria
- Promoting and strengthening Primary Health Centers with network of para-professionals to improve the capacity of surveillance and control of epidemics

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

Preparedness activities before disaster seasons

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

Response Activities:

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

Recovery Activities:

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

Water Supplies and Sanitation (GWSSB)

Prevention Activities:

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

Preparedness Activities for disaster seasons

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

Response Activities:

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

Recovery Activities:

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

- Sharing of experiences and lessons learnt.
- Training of staff.
- Development of checklists and contingency plans.

Police:

Prevention Activities:

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

Response Plan:

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

Civil Defense:

Prevention Activities

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

Response Activities

- Act as Support agency for provision of first aid, search and rescue services to other emergency service agencies and the public.
- Act as support agency for movement of relief.

- Triage of casualties and provision of first aid and treatment.
- Work in co-ordination with medical assistance team.
- Help the Police for traffic management and law and order.

Fire Services:

Prevention Activities:

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

Response Activities:

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

Civil Supplies:

Preventive Activities

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

Response Activities

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

Recovery Activities

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

Public Works/ Rural Development Departments:

Prevention Activities :

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

Response Activities

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

Recovery Activities:

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

Energy: DGVCL

Prevention Activities:

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

Response Activities:

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

Doordarshan, hospitals, medical colleges, Collector Control Rooms and other vital emergency response agencies.

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

Fisheries:

Prevention Activities

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

Response Activities

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

Recovery Activities

Provide compensations and advice to affected individuals, community.

Forest Department:

Prevention activities

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

Transport Department:

Prevention Activities

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

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

Recovery Activities

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

Panchayati Raj Institutions:

Preventive Activities

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

Response Activities

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

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

Recovery Activities:

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

Information & Public Relations Department:

Prevention Activities

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

Response Activities

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

Revenue Department

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

Home Department:

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

Gujarat Disaster Rapid Action Force

Response

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

7.8 Reporting

Media & information Management:

7.8.1 Taskforce Leader: District Information Officer

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

➤ Activation of the Plan

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

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

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

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

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

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

End of Emergency

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

7.9 Humanitarian Relief and Assistance

Response defines provision for assistance/ intervention during and after emergency. Response plan includes clear Incident Command System (ICS) operated through emergency operation centers (EOCs) with effective 3C (Command, Control and Communication)

mechanism. ICS covers early warning, search and rescue, humanitarian assistance, medical response, relief, temporary shelter, water and sanitation, law and order, animal care, public grievance, recovery and rehabilitation.

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

Helpline

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

7.10 Arrangement of VIP Visit

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

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

Responsibility matrix for response functions

TASKFORCE ACTION PLANS

Coordination and Planning:

Coordinate early warning, response and recovery operations.

Task Force Leader: Collector

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

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

Warning:

Collection and dissemination of warnings of potential disasters

Task Force Leader: Resident Additional Collector

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

Law and Order:

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

Task Force Leader: District Superintendent of Police

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

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

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

Search and Rescue (including evacuation):

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

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

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

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

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

Public Works:

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

Task Force Leader: Executive Engineer, Roads and Buildings

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

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

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

Water Supply:

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

Task Force Leader: Executive Engineer, Gujarat Water Supply Board

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

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

Food and Relief Supplies:

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

Task Force Leader: District Supply Officer

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

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

Electric Power Supply:

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

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 and Warning Phases		
Develop inventory of current status of power system and resources. (Gujarat Electricity Board – GEB)		

Establish minimum stock levels and procure necessary additional stocks. (GEB)		
Conduct monthly meetings. (GEB)		On-going
Develop contact lists. (GEB)		
Conduct informal hazard and risk assessment. (GEB)		Completed.
Develop disaster plan. (GEB)		
Disaster		
Assess impact according to SOP. (GEB)	Coordinate with Control Room and Damage Assessment Task Force.	
Prioritize response actions. (GEB)	Need to establish priorities.	
Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Collect more information. (GEB)		
Mobilize additional resources. (GEB)	Coordination with Control Room and other Task Forces.	
Check for unforeseen contingencies.		
12 Hours		
Revise plans based on feedback and assessments. (GEB)		Continuous
Monitor status of actions. (GEB)		Continuous
Begin staff rotation plan. (GEB)		At beginning of period.
Disseminate public information. (Media Task Force)		At beginning of period.
Secure support for staff (food, lodging) from NGOs. (GEB)		
Assure security as needed. (Law and Order Task Force)	Coordinate with Control Room.	
Establish constant communications on needs, requirements and resources with Control Room and GEB/HQ.		
48 Hours		
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 return to normal, including additional security if needed. (GEB)	Involvement of Law and Order Task Force.	

Public Health and Sanitation

(Including first aid and all medical care):

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

Task Force Leader: Chief District Health Officer

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

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

Animal Health and Welfare:

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

Task Force Leader: Deputy Director, Veterinary and Animal Husbandry

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

Shelter:

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

Task Force Leader: District Primary Education Officer

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

Develop shelter operating procedures. (Task Force)		
Develop inventory of shelters (location, capacity,). (Task Force)	SDRN updating, project inventory.	On going
Provide information to other Task Forces on location of shelters. (Task Force)	Logistics, Water, Power, SAR, Food/Relief Supplies Task Forces and Control Room	
Training for shelter managers. (Task Force)	Need training module.	
Warning		
Mobilize shelter managers. (Task Force)		Within 6 hours of warning.
Review shelter locations for operating status. (Task Force)	Communications needed.	Within 6 hours of warning.
Open shelters as instructed.	Coordination with Control Room.	Within 6 hours of warning.
Mobilize additional resources for shelters and camps. (Task Force)	Cooperation with Logistics, Food and Relief Supplies, Water and Power Task Forces.	Within 6 hours of warning.
Provide public announcements on locations and status of shelters. (Media Task Force)		Within 6 hours of warning.
Disaster		
Beginning logging-in of occupants. (Shelter managers).		Immediately.
Report on status of shelters. (Task Force)	To Control Room.	As needed.
Plan for prioritization of shelter use. (Task Force)	Coordination with evacuation operations and Control Room.	Immediately.
Coordinate with other Task Forces on water, power, food, health, security. (Task Forces)		Immediately.
Action and (Who Should Take It)	Requirements or Conditions to be met for the action can occur.	Timeframe
Provide support and assistance to occupants. (Task Force)	Liaise with Animal Task Force on management of animal and with Health Task Force on health care.	
12 Hours		
Continue operations. (Task Force)		Continuously
Monitor shelter status and movement of people. (Task Force)		Continuously
Mobilize additional resources. (Task Force)	Coordinate with Control Room and Logistics Task Force.	Continuous.
48 Hours and Beyond		
Begin Demobilization as appropriate. (Task Force)		

Begin reconditioning/repairs to shelters. (Task Force)	In cooperation with Public Works Task Force.	As needed.
Lessons Learned session. (Task Force)	Involvement of other Task Forces and evacuees.	14 days after completion of operations.
Final Report. (Task Force)		1 month after completion of activities.

Logistics:

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

Task Force Leader: District Development Officer

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

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

Damage Assessment and Survey:

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

Task Force Leader: Resident Additional Collector

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

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

Telecommunications:

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

Task Force Leader: Resident Additional Collector

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

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

8 Reconstruction, Rehabilitation and Recovery Measures

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

Strategies for restoring physical infrastructure and lifeline services may be:

Build Back Better:

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

Participatory Planning:

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

Coordination:

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

Various Sectors for recovery process may be

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

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

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

8.1 Damage Loss Assessment

Restoration of Essential Services and Infrastructure
Following tables are to be filled after an event of disaster

Power

Item/ Services	No. of unit damage d	No of villages affecte d	Populat ion affected	Recover y measure s	Implement ing agency	Tentativ e Duration (Months)	Budge t
Feeder							
Transformers							
HT Lines							
LT Lines							
Electric Poles							

Note: To be planned after initial damage assessment by departments

Health

Item/ Services	PHC (village name)	CHC	Sub Centre	Drug Store	Recover y Measure s	Implementi ng agency	Tentativ e Duration (Months)	Budge t
No of buildings damaged								
No of health centres inaccessibl e								
Refrigerati on and other vital equipment for storage								
Drugs and medicines perished	(Locatio n and qty)							
No of Ambulance damaged								

Note: To be planned after initial damage assessment by departments

Social

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

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

Water Supply

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

Road and Transport

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

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

Communication

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

Food Supply

List of village affected by disruption in food supply

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

Other								
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Housing

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

Public Utilities

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

Restoration of Livelihood

Provisioning of Employment

Occupational category	No. of workers	Implementing Agency	Tentative Duration (Months)	Budget
Skilled laborers				
Unskilled and Agricultural laborers				

Small and marginal farmers				
Construction workers				
Salt pan workers				
Fisher folk				
Weavers				
Other artisans				

Land Improvement

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

Agricultural

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

Nonfarm livelihood

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

Shops and establishment

Extent of damage/disruption			Recover y Measure s	Implementin g Agency	Tentativ e Duratio n (Months)	Budge t
Buildin g (No. and location)	Tools and equipment s (Specify no. and type)	Goods and materials (Speci fy type and qty)				

8.2 Long-term recovery program

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

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

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

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

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

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

Grievances Redressal System

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

Grievance Redressed System

No.	Key Person/ Establishment	Contact No	Address
1	DEOC/ RAC	0261-2663200	Collector Office-District Emergency Operation centre
2	DDO	0261-2422160	District Panchayat
3	Police	0261- 2651831/32/33	S.P.Office, Surat

Matrix form of Sort term and long-term recovery programme

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

7.3: SHORT TERM AND LONG TERM RECOVERY TIME TABLE

Recovery and Reconstruction

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
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
Long-term reconstruction	100 days to 5 years	5 to 10 years

9 Financial Resources for Implementation of DDMP

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 & 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 departmentally arrangement.

9.4 Partnerships

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

9.5 Centrally Sponsored scheme

Name	Purpose	Finance Arrangements	Activities that can be take under scheme	Nodal Agency
NDRF (NCCF)	Relief Assistance	100% Central Govt	Cash and kind relief	Revenue Department
SDRF (CRF)	Relief Assistance	75% Centre, 25% State	Cash and kind relief	Revenue Department

Planning Commission (13 Finance commission) Year 2011- 15	Capacity Building	100% Centre	Trainings Awareness Generation IEC material Mock drills	Revenue Department
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9.6 Risk Transfer / Risk Distribution

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

10 Procedure and Methodology for Monitoring, Evaluation, Updation and Maintenance of Plan

10.1 Annual Plan Maintenance

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

Schedule for updation of plan

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

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

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

Prepared By DDMC Members, Surat

Certified/ Approved By _____ Collector Surat

11 Coordination Mechanism for Implementation of DDMP

Sr. No.	Sub No.	Sr.	EOCs/ Control rooms	Contact Numbers
1			State EOC	079-23251914 079-23251900 079-23251900 Dy.Col. 079-23251907 Mam.
2			Relief Commissioner	9978406109 (M) 23251509
3			Director of Relief	9978406087 (M) 23251612
4.			CEO, GSDMA	9978405600 (M) 23259502
			Jt. CEO, GSDMA	9978407003 (M) 23259451
5			SURAT District EOC	0261- 2663200 (fax-2664800)
6			TASKFORCE Operation Room	
	6.1		Warning and Communications	9978405220
	6.2		Law & Order	0261-2463976 0261-2463978
	6.3		Search & Rescue	2414195/962423751 101, 102, 972434508
	6.4		Public Works	R&B-1 02612474162 9824107339 R&B-2 02612471097
	6.5		Shelter	0261-2667007
	6.6		Water Supply	0261-2782088
	6.7		Food & Relief supplies	0261-2465114, 8758401001
	6.8		Public Health & Sanitation	0261-2425751,2425751-55
	6.9		Power	0261-2804491/99
	6.10		Logistics	2422160-2425751-55
	6.11		Animal Health & Welfare	0261-2425751
	6.12		Damage assessment/Survey	0261-2472211,2463819 9978405220
	6.13		Media/public Information	0261-2465541,2474423
	6.14		Planning and coordination	0261-2472471, 2471121
	6.15		Finance/ Administration/ protocol	0261-2472211,2463819 9978405220
	6.16		madadnish niyamakshree matstoudhyog	0261 2463946 9879335412
	6.17		Transport and migration management	9426560574
7			Taluka EOC/ERC/Control Room	
	7.1		TEOC Umarpada	02629-253392
	7.2		TEOC Olpad	02621-222444
	7.3		TEOC Kamrej	02621-202578

7.4	TEOC Chauryashi	0261-2663800
7.5	TEOC Palsana	02622-264228
7.6	TEOC Bardoli	02622-220024
7.7	TEOC Mahuwa	0265-255721
7.8	TEOC Mangrol	02629-220227
7.9	TEOC Mandvi	02623-221023
7.10	TEOC ARETH	
7.11	TEOC AMBIKA	
7.12	Surat City Control Room	2414195/96 2451756

11.1 Annexure: 7 List of NGOs

Sr. No	NGO NAME,	NGO NAME, ADDRESS	phone /fax
	Olpad		
1	RAMA NEWSPRINT AND PAPERS LTD.	RAMA NEWSPRINT AND PAPERS LTD. BARBODHAN OLPAD	02621-224203, 224205, 224207
2	THE JAHANGIR PURA GROUP CO. OP. COTTON SALE SOCIETY LTD.	THE JAHANGIR PURA GROUP CO. OP. COTTON SALE SOCIETY LTD. OLPAD JIN, PO. OLPAD	2762062
	Bardoli		
3	MANAV KALYAN RACHNATMAK TRUST	MANAV KALYANRACHNATMAK TRUST BARDOLI	
4	RURAL LABOUR ASSOCIATION	RURAL LABOUR ASSOCIATION HALPATI SEVA SANGH, KAMDAR HOUSE, SARDAR BAUG BARDOLI	02622-20134, 02622-220478
5	SARVAJANIK MAHILA MANDAL, BARDOLI	SARVAJANIK MAHILA MANDAL, BARDOLI OPPOSITE PRAKASH CINEMA BARDOLI	(02622)227201, 222522
6	SWARAJ ASHRAM	SWARAJ ASHRAM SARDARBAUG BARDOLI	02622 220034
	Choryasi		
7	HAZIRA AREA EDUCATIONAL AND MEDICAL CHARITABLE TRUST	HAZIRA AREA EDUCATIONAL AND MEDICAL CHARITABLE TRUST INDUSTRIAL TRAINING CENTER 1/160, GIDC ESTATE, BHATPOR CHORYASI	
8	SHREE AMBICA NIKETAN TRUST	SHREE AMBICA NIKETAN TRUST VESU ROAD, VESU CHORYASI	2226600, 2252971
	Kamrej		
9	KATHOR VIBHAG NAGARIK SAHKARI DHIRAN MANDAL LTD	KATHOR VIBHAG NAGARIK SAHKARI DHIRAN MANDAL LTD KATHOR KAMREJ	256516 257131, 256351
	Mahuva		

10	JANTA KALYAN RACHANATMAK TRUST	JANTA KALYAN ACHANATMAK TRUST VADIYA KARACHELIYA MAHUVA	02625-256101, 256516 257131, 256351
Mandvi			
11	ADARSH MAHILA MANDAL	ADARSH MAHILA MANDAL PUNA MANDVI	
12	NAVRANG MAHILA MANDAL	NAVRANG MAHILA MANDAL FALI MANDVI	
Mangrol			
13	CATHOLIC CHURCH	JHANKHVAV MANGAROL	
14	SAMAJ SEVA SANGH ZANKHVAV	SAMAJ SEVA SANGH ZANKHVAV MANGAROL	02629-256028 2629-256339
15	M.L.P CHARITABLE TRUST.	M.L.P CHARITABLE TRUST. OFFICE, 9, PATEL SHOPPING CENTRE OPP GODREJ ADHARKIM CROSS ROAD, MANGROL	0261-324927
16	THE KOSAMBA KHEDUT SEVA SAHAKARI MANDL LTD	THE KOSAMBA KHEDUT SEVA SAHAKARI MANDL LTD JUNAGAM, KOSAMBA MANGROL	02629-235279
Palsana			
17	SANJIVNI HOSPITAL	SANJIVNI HOSPITAL N.H.NO 8, NR, KADODARA CHARRASTA PALSANA	02622-281184, 281253, 281083
18	SHREE SWAMINARAYAN GAUSEVA TRUST	SHREE SWAMINARAYAN GAUSEVA TRUST SHREE SWAMINARAYAN VISHVA VIDHYAPITH (GURUKUL) NATIONAL HIGHWAY NO 8, KADADARA CHARRASTA PALSANA	02622--72322
Surat city			
19	<u>Federation Of Surat Textile Traders Association</u>	5046 JJ A/C Textile Market, RingRoad , Surat -395002	0261 300 6709
20	<u>Navsarjan</u>	NAVSARJAN NR. RTO., RING ROAD,	0261-2475683
21	Nature club	sarjan society parle point	098250 57678

List of different unorganized/working groups included separately in annexure.

11.2 Annexure:11 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

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

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

3. Response

External-on air

- Broadcast pre-prepared announcements
- Broadcast emergency public meetings
- Broadcast emergency evacuation announcements
- All announcements broadcast in a reassuring and calm manner
- Dispel myths and rumors and provide timely and accurate updates
- Broadcast updates on damage situation
- Produce programs in which victims can express themselves
- Establish contact with the meteorological office and broadcast weather information

Internal-behind the scenes

- Ensure safety of all station personnel
- Call station briefing meeting
- Notify CR networks of status
- Monitor all official announcements and activities of national government, local government and aid agencies(NGOs)
- Enact station evacuation plan if needed
- Log all communications for reference
- Stay calm
- 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

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

Broadcast positive entertainment programming

Annexure: 12 Contacts Directory

District Incident Command Structure-Key Officers

Incident Commander -District Collector:- 9978406222

Alternate Incident Commander- Resident Additional Collector:- 9978405220

Sr. No	Task-force	Task-force Operation room	Task-force leader/contact Number	Alternate task-force leader -- contact Number
1	Warning and Communications	RAC Office	RAC/9978405220 0261-2660011/2669200	
2	Law & Order	Police control room	DSP/0261 2651831-2 CP/ 9978406275 2241301-3	Dy.SP/ 2479150 ACP/9978408288
3	Search & Rescue	Fire brigade CR-	Chief fire Officer- 9724345508, Control room-9724346022, 0261-2414139, 2423751	
4	Public Works	Road & Building	Ex. Engr, R&B/ Division-1 0261-2474162 Division-2 0261-2471097	Div. 9427107041
5	Shelter	Education Office-CR	District Education Officer/ 9909970218, 0261-2662903	
6	Water Supply	GWSDB-CR	Ex. Engr. GWSDB/ 9978406722,0261-2782088	Ex. EngrWater works, VMSS/
7	Food & Relief supplies	District Supply Officer -CR	DSO-9978405223 2655751, 0261-2465114	
8	Public Health & Sanitation	District Health Centre	CDHO-9727716689 0261-2425752-55/	
9	Power	GEB-CR	Supt. Engr. GEB/ 0261-2804491, 2804499	
10	Logistics	DDO office	DDO- 0261-2422160	DDO- 9978406247
11	Animal Health & Welfare	A & H Office	Dy. Director, A&H 0261-2425751-55	
12	Damage Assessment-Survey	Res. Add. Coll. office	Res.Addl. Collector/ 9978405220	
13	Media/public Information	Information Dept. CR	District Info Officer/ 0261-2465541	9913006598
14	Planning and coordination	Collector's office-	Collector-0261-2471121 9978406222	Res. Add. Coll. 9978405220
15	Finance/Administration /protocol	Res. Add. Coll. office-	Res. Add. Coll. 9978405220	

11.3 State Control Rooms- Contact Numbers

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 Mamlatdars in their respective Taluka control rooms.

State Control Rooms- Contact Numbers

Sr.No.	EOCs/ Control rooms	STD C0de	Contact Numbers
1	State EOC	079	23251902, 23251914, 23251900, 23251916- F 079-23251907 Mam.
2	Relief Commissioner	079	9978406109 (M) 23251509/68
3	Director of Relief	079	9978406087 (M) 23251611/2
4.	CEO,GSDMA Jt. CEO, GSDMA	079	9978405600 (M) 23259220, 9978407003 (M) 23259451
5	Pri. Secretary Revenue Department	079	23251591 23251591
6	Dy. Collector (SEOC)	079	23251990 23251916-12
7	India Meteorology Department , Ahmedabad	079	22865012 , 22865449 22865165 , 22861413
8	Institute of seismological Gandhinagar	079	66739000, 23257641 23252703
9	NDRF team Gandhinagar	079	23201551, F- 23202540
10	Commandant of NDRF team Gandhinagar	079	23202540 094288 26445
11	District EOC Help line	0261	1077
12	Stats EOC Help line	079	1070
13	NDMA	011	26701728, 26701729(F)
14	VTs, Hajira(GMB)	0261	2977007(F) mob. 9909903748/7405036788

TASK FORCE OPERATION ROOM		
Sr. No	TASK FORCE	Phone Number
1	Warning and Communications	9978405220
2	Law & Order	0261-2651831
3	Search & Rescue	972434508 0261-2414195/ 962423751
4	Public Works	R&B-1 mob. 9427107041 0261-2474162 R&B-2 mob. 9825164701 0261-2471097
5	Shelter	0261-2662903
6	Water Supply	0261-2782088
7	Food & Relief supplies	0261-2465114, 8758401001
8	Public Health & Sanitation	0261-2425751, 2425751-55
9	Power	0261-2804491/99
10	Logistics	0261-2422160 -2425751-55
11	Animal Health & Welfare	0261-2425751
12	Damage assessment/Survey	0261-2660011, 2669200 9978405220
13	Media/public Information	0261-2465541, 2474423
14	Planning and coordination	0261-2472471, 2471121
15	Finance/ Administration/ protocol	0261-2472211, 2463819 9978405220
16	EOC Surat	0261-2663200 0261-2664800-F

11.4 List of area wise Liaison Officers

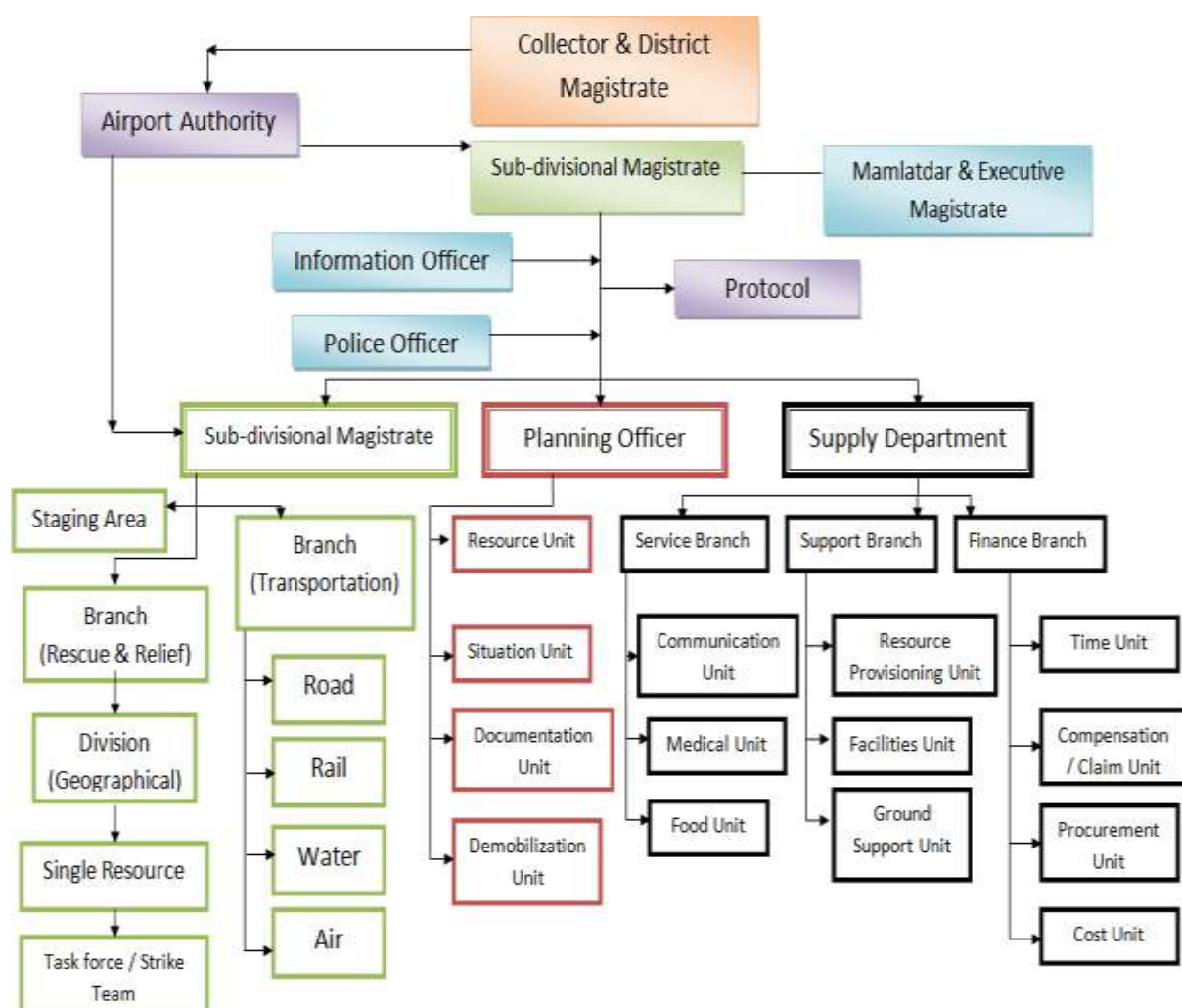
ક્રમ.	તાલુકાનું નામ	લાયઝન અધિકારીશ્રી નું નામ	હોદ્દો	ફોન નં.
૧	ચોર્યાસી	શ્રી પાર્થ તલસાણીયા	પ્રાંત અધિકારીશ્રી ઓલપાડ પ્રાંત, જિલ્લો સુરત	ફોન.નં. ૦૨૬૧-૨૨૧૨૪૪ મો.નં. ૯૦૩૩૪-૬૩૭૩૬ ઈ-મેઈલ: 16.prantolpad@gmail.com
૨	ઓલપાડ			
૩	બારડોલી	સુ.શ્રી જે.એન.પરમાર	પ્રાંત અધિકારીશ્રી બારડોલી પ્રાંત, જિલ્લો સુરત	ફોન. નં.૦૨૬૨૨-૨૨૧૧૨૪ મો.નં. ૮૩૪૭૦-૮૪૨૭૨ ઈ-મેઈલ: 19.prantbardoli@gmail.com
૪	મહુવા			
૫	અંબિકા			
૬	કામરેજ	શ્રી વી.કે.પીપળીયા	પ્રાંત અધિકારીશ્રી કામરેજ પ્રાંત, જિલ્લો સુરત	ફોન. નં. ૦૨૬૧-૨૫૩૪૦૦ મો.નં. ૯૯૦૪૮-૫૩૨૫૨ ઈ-મેઈલ: 17.prantkamrej@gmail.com
૭	પલસાણા			
૮	માંડવી	શ્રી કૌશિક જાદવ	પ્રાંત અધિકારીશ્રી માંડવી પ્રાંત, જિલ્લો સુરત	ફોન. નં.૦૨૬૨૩-૨૨૧૧૭૮ મો.નં. ૭૫૬૭૦-૧૧૪૭૦ ઈ-મેઈલ: 18.prantmandvi@gmail.com
૯	અરેઠ			
૧૦	માંગરોળ			
૧૧	ઉમરપાડા			

ક્રમ.	તાલુકાનું નામ	લાયઝન અધિકારીશ્રી નું નામ	હોદ્દો	ફોન નં.
૧	ઉધના	શ્રી વી.જે.ભંડારી	નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત, (દક્ષીણ) મજુરા જિલ્લા.સુરત	ફોન. નં.૦૨૬૧-૨૬૫૮૦૦ ફેક્સ નં.૦૨૬૧-૨૬૬૫૭૦૦ મો.નં. ૯૭૨૫૬-૭૬૭૬૭ ઈ-મેઈલ: 15.prantcity@gmail.com
૨	મજુરા			
૩	પુણા			

૪	કતારગામ	સુશ્રી એન.એસ.સવાણી	નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત, (ઉત્તર) અડાજણ જિલ્લા.સુરત	ફોન. નં.૦૨૬૧-૨૬૫૮૦૦ ફેક્સ નં.૦૨૬૧-૨૬૬૫૭૦૦ મો.નં. ૯૭૨૪૯-૯૨૯૭૮ ઈ-મેઈલ: 15.prantcity@gmail.com
૫	અબ્રામા			
૬	અડાજણ			

12 District Level Response Structure (IRS)

All the agencies must work in coordination with the District Authority as mentioned in Chapter 3.



12.1 SOP (Roles and Responsibilities)

The Present plan document identifies the roles and Responsibilities of the organization, in key identified sector. Taskforces have constituted for taking response measures in sectors. Action plan has been prepared for each taskforce which covers their roles & responsibilities in development of incident / emergency. It is expected that each taskforce shall develop the standard operating procedures for specific disaster / emergency. District collector has to ensure that all the members acquire knowledge and skills to perform their assigned roles.

A) District Magistrate & Collector

Being chairperson and Incident commander of the district for Disaster Management, he will be in overall command & emergency action to control a kind of emergency effectively for the district.

The Chair person has to perform the role as follows:

- Preparation and updating of District Disaster Management Plan for the District.

- To ensure that everyone is able to perform the role involved in emergency service effectively.
- To activate and maintain the District Control Room round the clock. To provide essential facilities with the District control room.
- To access emergency situation and have to declare the emergency, call and direct the emergency services to respond the emergency by providing reinforcement and support by pooling the resources from the District and if required from the State.
- The arrangement for rescue, evacuation, shelter, food, water, clothing, and transportation to affected area, announcement to the public.
- To keep inform to the higher authority time to time to declare the withdrawal or termination of emergency.
- Rehabilitation, Restoration, Cleaning, etc. on post emergency actions.
- To submit the reports on emergency. To conduct the meetings.
- To conduct the mock drill.

B) Municipal Commissioner

On receiving the information from the Collector, the Surat Municipal Corporation will help by making arrangements like:

- To receive casualties during an emergency in the corporation run Hospitals.
- To mobilize the firefighting equipments for Civil Hospital.
- To check for expected effected effects to the citizens of Surat and to take actions accordingly.
- To make schools available for shelters.
- To blow the city sirens for alarming the public.
- To inform the concerned department heads such as water and sewage supply, electricity section, hospitals, education department etc. about their DCPC plans and their functions and preparedness during emergencies. To rehabilitate evacuated city population after the emergency.

C) District Development Officer

Being a responsible person of Taluka / District the following actions are to be given prime importance for emergency purpose.

- To ensure the different authorities, agencies, organization persons, as specified their role, should participate immediately during emergency in district pocket area.
- To advice and guide different panchayat department and local representatives for mitigate and preventives aspects of disaster management and coordinative approach at the time of emergency.
- To participate in the meeting, mock drill & training.
- To prepare own detailed action plan to ensure effective control on emergency.
- To liaison & co-ordination with chair person, Central Control Room, emergency services, organization, agencies, agencies person etc.

- To support all other duties as specified by District Collector.

D) Police Department

Another authority who gets the first information on incident / accident is police department. The following actions are to be carried out by police department.

- To access the situation and report immediately.
- To maintain the law and order during the emergency to control the traffic and control the affected area.
- To protect the life of people, inside, outside as well as road movers.
- To protect the property & environment & public announcement.
- Evacuation, rehabilitation, shelter & transportation work during the emergency as per prevailing situation.
- To help & assist to make area clean, removing of any structure and other similar work as required during actual emergency.
- To participate the meetings & Mock Drill / Rehearsal & Training.
- To liaison with Central Control Room and other emergency services / organization / agencies.
- To prepare their own details action plan & to ensure the provisions to handle the emergency.

E) Responsibilities of City Liason Officers

- Take action against the precautionary statement regarding the flood clearance in connection with the police officers fixed in their Liaison officer, municipal zonal officer and zonal area in all zones of Bardoli, Mandvi, Kanakpur, Kansad and Tarsadi municipality. Every area is timely informed.

F) Police Department

Another authority who gets the first information on incident / accident is police department. The following actions are to be carried out by police department.

- To access the situation and report immediately.
- To maintain the law and order during the emergency to control the traffic and control the affected area.
- To protect the life of people, inside, outside as well as road movers.
- To protect the property & environment & public announcement.
- Evacuation, rehabilitation, shelter & transportation work during the emergency as per prevailing situation.
- To help & assist to make area clean, removing of any structure and other similar work as required during actual emergency.
- To participate the meetings & Mock Drill / Rehearsal & Training.

- To liaison with Central Control Room and other emergency services / organization /agencies.
- To prepare their own details action plan & to ensure the provisions to handle the emergency.

G) Fire Services

Most probably, the first information regarding any incidence / event is received by the fire services. Thus, fire service being first informant has to play the major role during the emergency.

- Inspection, survey & assess the situation where incident occur & give the report.
- To decide the proper & effective actions and immediate response actions to control the emergency, under intimation to Central Control Room or Chair Person.
- Proper training to fight against different hazards
- Rescue, Evacuation, Remove of debris, and other emergency work as directed or instructed.
- To maintain the proper and adequate firefighting, equipments, neutralizing media, selfbreathing apparatus, emergency equipments, personnel protective equipments with keeping in working order.
- The knowledge & information on different type of alternative resources, various types of extinguishing media, neutralizing media, chemical properties and their hazards with safe handling procedure.
- To participate the meetings Mock Drill / Rehearsal & training.
- To liaison with Central Control Room and other emergency services.
- To prepare their own details action plan & to ensure the provisions to handle the emergency.
- Other duties as required during actual emergency.

H) Health Department

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

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

- Ambulance, primary health center, Para-medical staff, vehicle to meet the emergency situation.
- Arrangement to inform the up to-date status time to time to DEOC, Chair Person, and Relatives of injured or admitted patients, emergency services etc.
- Arrangement to safe guard the public health in case of development of epidemic situation & announcement on safety measure to be taken by public at the time of emergency situation.
- To advice & guide the different stake holders in respect of medical & health part time to time.
- Provision for proper and adequate medicines, lifesaving drugs, equipments, antidotes etc. related to different hazards.
- To participate meetings, mock drills / examine and training.
- To prepare own detailed action plan to ensure the effective handling of different kinds of emergencies.
- To liaison with DEOC, Chairperson, emergency services organization, agency and other related person.
- Other duties as required during actual emergency.

I) RTO

- To respond to collector and police instructions in different kinds of emergency
- To provide adequate requirements for both persons and material.
- To arrange for deployment of vehicles with full fuel levels.
- To streamline traffic flow and parking yard movement.
- To co-ordinate in deployment of vehicles, if required.
- To participated meeting, mock drills & training.
- To prepare own detailed action plan to ensure effective handing at the time of actual emergency.

J) Civil Supplies Department

- To arrange to provide cooked food and clothing to evacuees and others involved in emergency controlling operation.
- To ensure availability of sufficient cooked food, water ready for distributaries at various locations.
- To participate in the meeting, mock drills & training.
- To prepare own detailed action plan to ensure effective handling of emergency.

K) Joint Director - Information

The proper and correct news should be reach to the public to avoid rumours and panicky. The role of District information officer is to create awareness and preparedness amongst the public for different hazards because of wide & fast spreading news.

- To participate in the meeting, mock drill / exercises and training.

- To assist the public in case of rescue operation and authentic news.
- To liaison & Co-ordination with Chair person, Central Control Room and emergency services.
- Ensure to safe guard the public at large during actual emergency by providing correct reliable authentic guideline and news.

L) Dy. Controller (Civil Defence)

- To participate in meeting, mock drills & training.
- To prepare own detailed action plan to ensure effective handling of emergency
- To assist police in rescue and evacuation work during emergency.
- To provide security, cordoning the area, and other Services.

M) Electricity Board (DGVCL & Torrent)

- To arrange for un-interrupted power supply, if needed.
- To arrange for lighting at temporary medical camps, rallying points and parking yards.
- To take care of electrical equipment within affected zone.
- Arrange for switching off power supply if requested by authority.
- To participate in the meeting, mock drills & training
- To prepare own detailed action plan to ensure effective handling of emergency

N) Regional Officer (GPCB)

- To participate in the meetings, mock drill / exercises and training.
- To prepare own detailed action plan to ensure the effective control of industrial emergency & subsequent action.
- Liaison with central control Room, chairperson, Emergency Services, Organization agencies & other related persons.
- Advice & Guidance to the District Crisis Group in Respect of environment protection in the industrial pocket.
- To provide the technical input regarding environment and evaluate the contamination or adverse effect during industrial emergency.
- To provide the details & information on development of emergency situation regarding in safe level to the life and suggest area to be evacuated and other safety measures.
- To suggest the safe level for restoration & restarting of work on termination of emergency services & expert persons etc.
- Other duties or work as directed by District crisis group or chair person.

O) Representative Form MAH Units

The management of major accident hazardous unit has to maintain updated onsite emergency plan with necessary details with accurate information and a correct assessment of the situation. The site main controller is responsible to provide immediately on occurrence of crisis at his unit with specific details, development and needed help from local crisis group &

district crisis group. He will arrange & provide all the resources, equipments, manpower, and communication network from his own unit and co-ordinate with local crisis group & district crisis Group to combat the industrial emergency.

P) Role of other members of District Crisis Group

The other members like controller of explosives, trade union representative, agriculture department, municipal commissioner and other government agencies, etc. have to perform the various duties. However, the following are the suggested duties as required during the emergency:

- To participate in the meeting, mock drill / exercise and training.
- To assist the public in proper way in case of rescue and evacuation during actual emergency.
- To advice and guidance to the District crisis group & Chair person.
- To arrange and help the supporting actions and duties in respect of industrial emergency
- To provide more and adequate resources & various requirement to tackle the industrial emergency immediately.
- Liaison & co-ordination with Central Control Room and emergency services.

Q) Volunteer Organizations (N.G.O.)

The voluntary organization / services can play vital role in relief & rescue operations like arrangement of food packets & packing up of the same, distribution of the food packets and water pouches, arrangements of life saving drugs & distribution of the same, can play a major role in awareness generation, to convince the person / public to evacuate the residence / place and to shift to safe shelter timely during emergency. Otherwise it may result more serious effect. To save the life of public is more important factor, which will be successfully carried out by the voluntary organization. The list of such organization with address, telephone no. organization etc. will be prepared and up-dated time to time.

R) Railway Authority

On getting information at the time of disaster from Central Control Room, the Divisional Manager, western Railway, Surat will take following actions:

- To issue the standing instruction to all railway gates to take actions on receiving the message from the Station Master.
- To decide authority level of railway staff to take actions.
- To carry out evacuation by railway, if required.
- To take care of floating population at railway stations and on board travelers.
- To issue the standing instruction to station Masters on up and down railway stations to stop the train as soon as emergency message is received from DEOC and CCR.

S) Irrigation Department

- Play vital role in pre, during and post form of emergencies particularly in floods.
- Proper management of dams, irrigation canals, ponds and timely maintenance of the

same.

- Inform DEOC and respective stake holders in case of water release from the dams.
- Start their control room at the time of monsoon.
- Follow the instructions mentioned with the Flood memorandum.
- To participate in the meetings, mock drill / exercises and training.
- To prepare own detailed action plan to ensure the effective handling of different kinds of emergencies.
- Liaison with DEOC, Chairperson, emergency services organization, agency and other related person.
- Other duties as required during actual emergency.

T) R&B Department

- To play vital role in pre, during and post form of emergencies.
- Proper management of roads and buildings and timely maintenance of the same.
- Inform DEOC and respective stake holders' diversion of routes, closing status of the roads etc.
- Ensure safety terms while establishing or developing of bridges, dams, roads, buildings etc.
- To participate in the meetings, mock drill / exercises and training.
- To prepare own detailed action plan to ensure the effective handling of different kinds of emergencies.
- Liaison with DEOC, Chairperson, emergency services organization, agency and other related person.
- Other duties as required during actual emergency.

U) Citizen:

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

Disaster Specific Action Plan

12.2 Flood Action Plan

Surat district is situated on the banks of the Arabian Sea. After that water is synchronized to the Gulf of Khambhat. Geographically, Surat is located in the west of the Dakden peninsula and the west is Kharland area. Sahayadri's direct slope is found in the lower part of the district, which is safe. The main nallahs of Surat district are found in the Tapi, Kim, Mindhola, and Ambika river. Length of Tapi river is approximately 725 km. The main branches of the Tapi river are Purna, Vagur, Girer Bori, Anar, Panjar, Gumar and Gomai. The last 51 km of the river is under the influence of the sea. On Tapi river, there are two major dams Kakrapar Weir and Ukai Dam built.

In the monsoon season, there is heavy rainfall recorded in Surat district over time. In the study of meteorological data, due to heavy winds of Tapi river water, the rainfall in the catchment area of Tapi river is likely to cause heavy flood even in low rainfall. Due to heavy rainfall, it is also flooded.

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

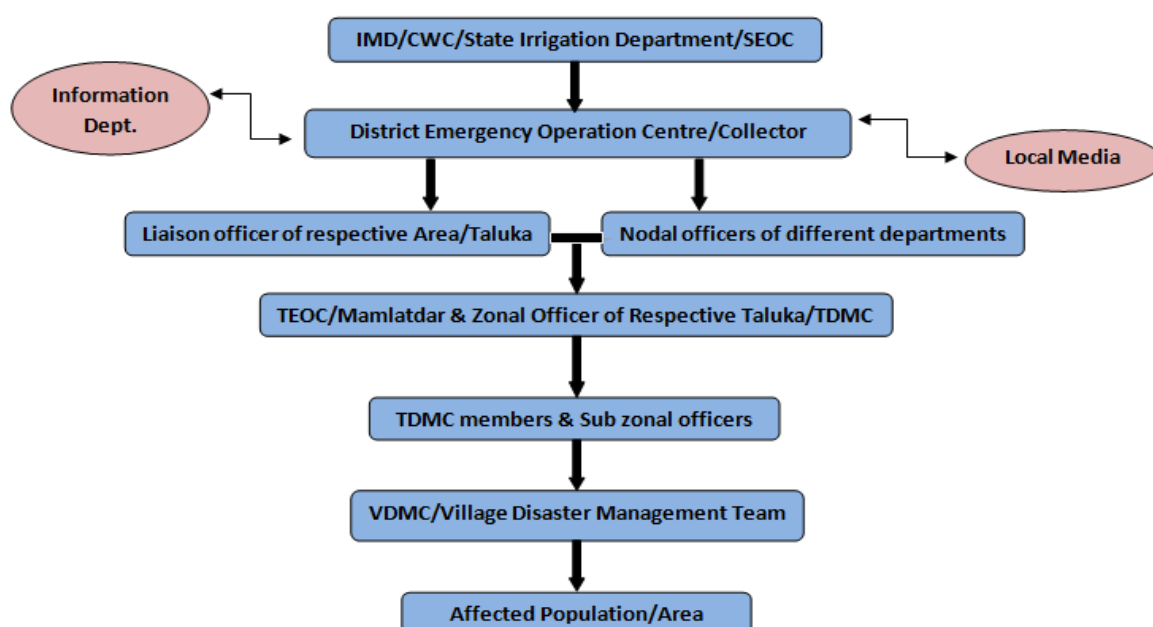
(C) Emergency Situation

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

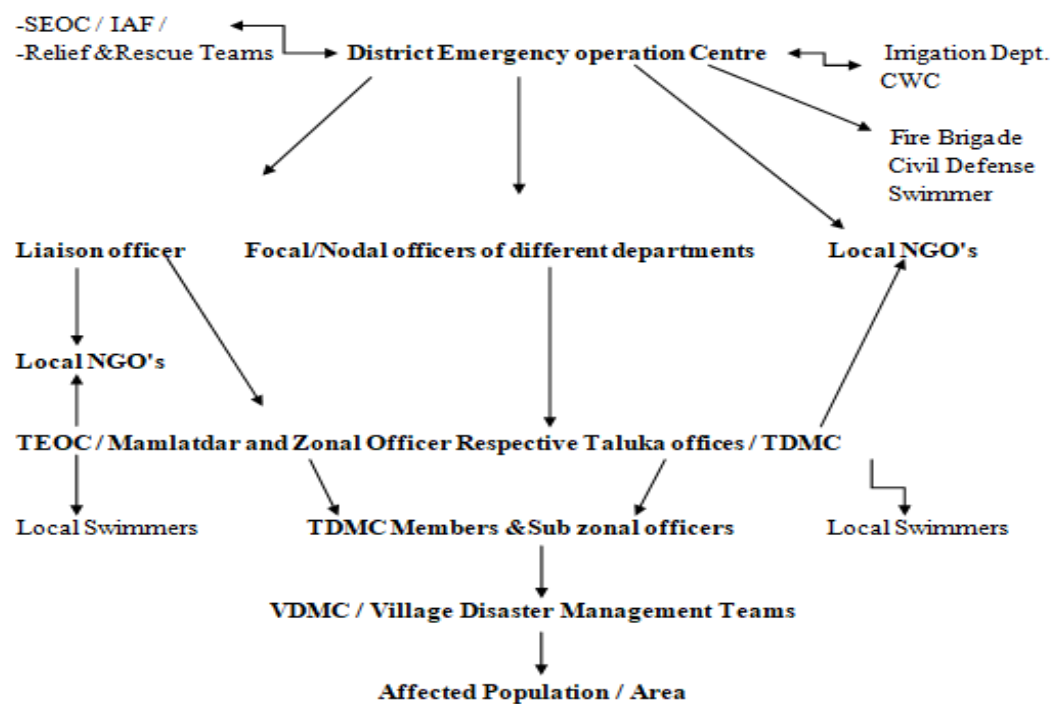
12.2.1 Early Warning & Communication Flow



12.2.2 Response

- ❖ As disaster declares the response managed and monitored through DEOC,
- ❖ All the concerned DDMC members along with the Liaison officers and response group members are intimated to respond to the situation as described in the below chart.
- ❖ As per the impact of disaster it will manage through DEOC / TEOC and if needed support of State or Central departments will be requested to deal with the situation.
- ❖ DM Plan of Irrigation Department, Flood memorandum, TDMP, CDMP and other DM Plan will be referred as an when it is required to respond in case of floods.
- ❖ The list of trained swimmers is incorporated with Annexures.
- ❖ Equipments for flood rescue like boats Life rings, Life buoys, Dewatering pumps etc. details are incorporated in Annexures.
- ❖ Database of SDRN and IDRN (Manually and Electronic) will be referred for flood response.

12.2.3 Response Chart



12.2.4 Details of Tapi Basin

Sr No	Name of Gauge Station	Danger Level)		Warning Level	
		In Meter	In Feet	In Meter	In Feet
1	Ukai	105.15	345.00	103.32	339.00
2	Kakrapar	53.66	176.05	53.15	174.33
3	Surat Nehru Bridge	9.50	31.16	8.50	27.88

12.2.5 Danger levels of different rivers

Sr. No.	Name Of River	Danger Level (in m)
1.	Ambika (Sonavadi)	9.45
2.	Mindhola (Bardoli Bridge)	10.10
3.	Kim (Moti Naroli)	13
4.	Purna (Veravala)	7

12.2.6 List of Dams at Surat District and their Danger Level

Sr. No.	Name Of Dam	Danger Level
1.	Ukai Dam	345.00 (Feet)
2.	Kakrapar weir	176.00 (Feet)
3.	Aamli Dam	115.80 (Meters)
4.	Laakhi Dam	74.10 (Meters)
5.	Hop Pool	9.50 (Meters)
6.	Cause Way	6.00 (Meters)
7.	Hathnur Dam	213.00 (Meters)

12.2.7 List of villages likely to be affected by following rivers

Sr. No.	River	Taluka	Affected Villages	Population
1	Tapi	Olpad	Pinjarat	5173
			Tena	1119
			Barbodhan	2496
			Tunda	595
			Dabhaari	535
			Aadmor	1076
			Lawaachha	2218
			Bhandut	1191
			Kudiyana	1740
		Bardoli	Kadod	13398
			Haripura	1714
			Waaghecha Kadod	897
		Choryasi	Kawas	6500
			Limla	3683
			Malgama	960
			Bharthana Kosad	7171

			Bhensaan	2195
			Bhatha	5122
			Bhatpor	3449
			Ichchhapor	12097
			Saniya Hemad	3964
			Kumbhariya	5850
			Saroli	3268
		Kamrej	Kamrej	11329
			Bhairav	1004
			Derod	1666
			Kholwad	10687
			Kathor	13258
			Choryasi	1143
			Aamboli	4186
			Ghala	4713
			Karjan	2529
			Dhoran Pardi	2803
			Navipardi	3961
			Kholeswar	1474
			Dungra	2744
			Dhatwa	1382
			Machhi	462
			Timba	2418
			Antroli	1088

			Tharoli	186
			Velanja	2804
			Abrama	3041
			Bhada	1842
			Walak	1644
			Laskana	8452
			Aakhakhol	541
			Jiyor	204
			Shaampura	3560
			Dethli	267
2	Mindhola	Palsana	Kanaav	1609
			Malekpor	2531
			Amalsadi	1610
			Maakhinga	874
			Vanjhodiya	1176
		Bardoli	Madhi	7650
			Surali	9286
			Karchaka	1033
			Ten	6251
		Choryasi	Saamrod	1060
			Kachholi	2149
			Lajpor	7920
			Popda	1017

			Kapthela	3312
3	Kim	Mangrol	Luwara	2322
			Kantwa	2246
			Wansoli	839
			Sava	774
			Velachha	2138
			Kathwada	1040
			Hathoda	3735
			Mota Borsara	1871
			Walesa	568
			Moti Naroli	1060
			Palod	2558
			Kothwa	1478
			Shenthi	791
			Panetha	584
			Siyalaj	1711
			Kosadi	3328
			Simodara	1676
			Vadoli	732
			Aasarma	941
			Ranakpor	1004
			Limbada	2434
			Mangrol	5354

			Aamandera	900
			Gijram	1814
			Aankdod	1355
		Olpad	Kadrama	1695
			Umrachhi	991
			Vadoli	1862
			Kim	18638
			Kimamali	1067
			Kathodara	3628
			Anita	1110
Bolav	1223			
4	Bhukhi	Mangrol	Vaankal	5629
5	Purna	Mahuva	Mahuva	5775
			Ranat	1209
			Ondach	2728
			Amroli	539
			Shekhpur	4689
			Vadiya	1372
			Miyapur	1220
			Budhleshwar	664
			Kavitha	1201
			Sewasan	270

			Aamchak	1423
		Bardoli	Chhitra	603
			Kharad	81
6	Ambika	Mahuva	Valvada	5233
			Haladwa	3242
			Mahuvariya	5567
			Umraa	5641
			Vaheval	7595
			Kaankariya	1332
7	Sena Creek (Khadi)	Olpad	Gothan	3035
			Umraa	2233
			Delad	4028
			Sayan	15324
			Saadhiyer	3207
			Achharan	1025
			Gola	832
			Olpad	15898
			Haathisa	597
8	Low Lying Areas	Olpad	Siwaan	2134
			Vaswaari	949
			Atodara	1755

			Karmala	957
			Kosam	1412
			Sonsak	1128
			Balkas	846
			Saroli	1946
			Kudsad	9407
			Dihen	2636
			Ariyana	1419
			Kunkani	856
			Obhala	430
			Kaachhab	385
			Bhaadol	1373
			Takrama	1687
			Maadhar	607
			Morthan	948

12.2.8 Kim river flooding analysis

For the long time Kim river flooding issue is getting bigger to tackle with especially in monsoon. Therefore, below analysis is done to come-up with quick solution during any adverse situation.

These are some data from previous year. This shows how does level of Kim river affects following villages. The rainfall of the date 02/08/2019 was recorded as 269 mm in Mangrol and 91 mm in Umarpada. That shown effect on Kim river as follows.

Table 2 Kim river analysis

Sr.	Date	Rain of 24 hrs in mm	Max. Level of Kim River (in m)	Evacuation	
				Village	Number
1	03/08/2019	Mangrol-278mm Umarpada-416mm	12 m	Mangrol Taluka Kathvada Kunvarda	194 104

				Sava Kothva	26 27
2	04/08/2019	Mangrol-451mm Umarpada-587mm	12.65 m	Olpad Taluka Kathodara Mangrol Taluka Sethi Kosadi Simodara Pansara Hathoda Limbada Kunvarda Mota Borsara Ranakpor Moti Naroli Panetha	178 80 35 257 495 33 148 48 106 225 29 103
3	05/08/2019	Mangrol- 00 mm Umarpada-23 mm	14 m	Olpad Taluka Kim Bolaav Umrachhi Vadoli Kimamali	360 400 120 80 12
4	06/08/2019	Mangrol-03mm Umarpada-06mm	12 m	Olpad Taluka Umrachhi	500

As the consequences of rising water level there were also some incidents of transportation failure as follows.

There was an incident of road closure from Vadoli to Kim in Olpad Taluka on the date of 04/08/2019.

Bombay-Baroda railway line was also affected due to rising water level. Railway line was closed on 4th August evening due to bank slip and was again closed due to water level reached danger level on most of the bridges on Kim river.

Umarpada and Mangrol are in the catchment area of the Kim river. It is estimated that it reaches to the Kim river in around 6 hours. Thus, it can be concluded that heavy rainfall in short time that occurs in these two talukas affects majorly the level of Kim river.

Necessary precautions need to be taken as soon as heavy rainfall is recorded in these two talukas.

12.3 Industrial/Chemical Action Plan

Manufacture, storage and use of hazardous substances pose a serious risk to industry, people in the neighbourhood and the environment. Accidental release of hazardous chemicals, which are flammable, explosive or toxic, may lead to emergencies. Depending upon the nature of the substance and magnitude of the release, emergency could either be confined within the industry (On-site Emergency) or could transgress the boundary of the industry and affect the public in the neighbourhood in which case it would be an Off-site Emergency. The Off-site emergency Plan is a document detailing how emergencies relating to a possible major accident involving a hazardous chemical in an industry, which may have ramifications outside the boundary walls of that industry will be dealt with.

Under the chairmanship of DM & Collector the response will be managed and monitored from DEOC and Off site control room, department wise response mechanism and response structure lie with Offsite emergency plan prepared by Director Industrial Health and Safety and will be referred to the same at the time of chemical disasters which includes industrial fire, oil spill etc.

Response Activities

- ❖ As Chemical disaster declares the response will be managed and monitored through DEOC / OCR
- ❖ All concerned DCG members with Liaison officers and response group members are intimated to respond to the situation as described in the below chart.
- ❖ As per the impact of disaster it will manage through DEOC / OCR / TEOC and if needed support of State or Central departments will be requested to deal with the situation.
- ❖ Offsite Emergency Plan, TDMP, CDMP and other Industries DM Plan will be referred as and when required to respond in case of chemical disaster.
- ❖ The list of Expert persons, indicative list of medicines and equipments, trained first responders for Search; Rescue & Medicare etc. are available with offsite emergency plan.
- ❖ Database of SDRN and IDRN (Manually and Electronic) will be referred if needed in response.

12.4 Earthquake Action Plan

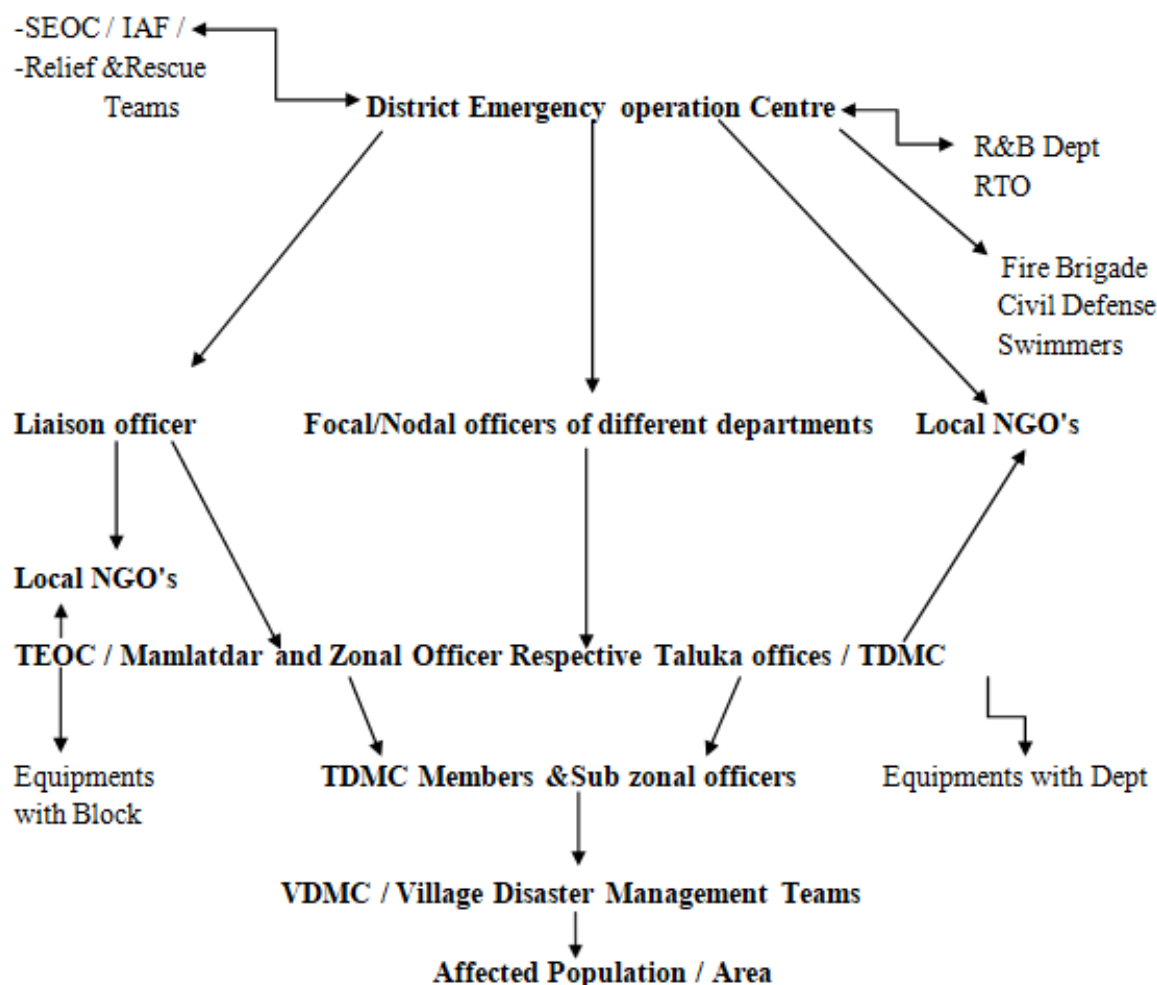
According to the Bureau of Indian Standards, the town falls under seismic zone-III, in a scale of I to V (in order of increasing vulnerability to earthquakes).

The response mechanism would be the same as describes with the general response mechanism chapter, here the focus will be on well-populated areas in particular city areas and the District disaster response group.

- ❖ As disaster declares the response managed and monitored through DEOC.
- ❖ All concerned DDMC members with Liaison officers and response group members are intimated to respond the situation as described in the below chart.
- ❖ As per the impact of disaster it will manage through DEOC / TEOC and if needed support of State or Central departments will be requested to deal with the situation.
- ❖ Departmental DM Plan of all concerned departments, TDMP, CDMP and other DM Plan will be referred as an when it is required to respond in case of Earth quake.
- ❖ Database of SDRN and IDRN (Manually and Electronic) will be referred for flood response.

ZONES	MAGNITUDE
Zone - V	Greater than 7
Zone - IV	Greater than 5, Less than or equal to 7
Zone - III	Greater than 4, Less than or equal to 5
Zone - II	Greater than 3, Less than or equal to 4
Zone - I	Less than 3

12.4.1 Response Chart



Temporary Shelter

- ❖ For temporary shifting of affected persons, temporary shelter is used during the effect of earth quake.
- ❖ In city area, in case of devastating earth quake the temporary shelters available with DEOC (Tarpaulin sheet with iron blades) can be used, tents with forest and other department and caterers can also be used as temporary shelter.
- ❖ None damaged / safe government establishments can also be used as per the directions of chairperson.

12.5 Cyclone Action Plan

Surat district has a coastal length of 83.00 km. There are 26 villages in this marine area. Surat district has experienced heavy rains over a period of time. But there was no effect of hurricanes in the near future. Based on the historical record, there was a major storm in 1782. And a large number of human casualties were casualties. The Tapi bat sank in the hurricane at that time,

resulting in the death of 2000 people who died on the bat and lost in the sea. Another hurricane struck Surat in 1800 and 1872. The impact of hurricanes is low in Surat. But precautions are necessary.

All the talukas of the district with major wards of the city are the possible site which can be affected during the heavy wind flow. Majorly the flood action plan will be referred at the time of cyclone.

Table 12-3 Expected damage of cyclone at different speeds

Sr no.	Speed (mph)	Expected Damage
1	60-90	Breaking down of branches of tree & damage to katchcha house
2	90-120	Tree may fall, Pakka house may get damaged, some communication & transportation maybe disturbed
3	>120	Big trees may fall down, houses may set severe by damaged, communication/transport stops, the glasses of doors & windows of house might get broken etc.

12.6 Oil Spills Action Plan

State level action plan / department specific action plan / Industries specific action plan will be referred at the time of the above stated Disasters. The response mechanism would be the same as describes with the general response mechanism chapter.

- ❖ As disaster declares the response managed and monitored through DEOC.
- ❖ All concerned DDMC members with Liaison officers and response group members are intimated to respond the situation.
- ❖ As per the impact of disaster it will manage through DEOC / TEOC and if needed support of State or Central departments will be requested to deal with the situation.
- ❖ Database of SDRN and IDRN (Manually and Electronic) will be referred for response.

12.7 Tsunami Action Plan

The possibility of the above stated disaster is very less with respect to Surat District, but if the effect of it is felt by the nearby district / state, will accordingly respond as per the State directions.

12.8 Heat Wave Action Plan

The seasons of Surat district is broadly divided into summer, winter and monsoon with fluctuation in temperature. Due to proximity to sea, it is predominately humid and hot and represents as sub-humid of tropical climate. Summer months (March, April, and May) are relatively hot with temperatures ranging from 37.78 to 44.44°C. The maximum humidity is around

80%. Winters are not very cold and the climate is pleasant during the monsoon.

Criteria for Heat Wave

(As defined by Indian Meteorological Department)

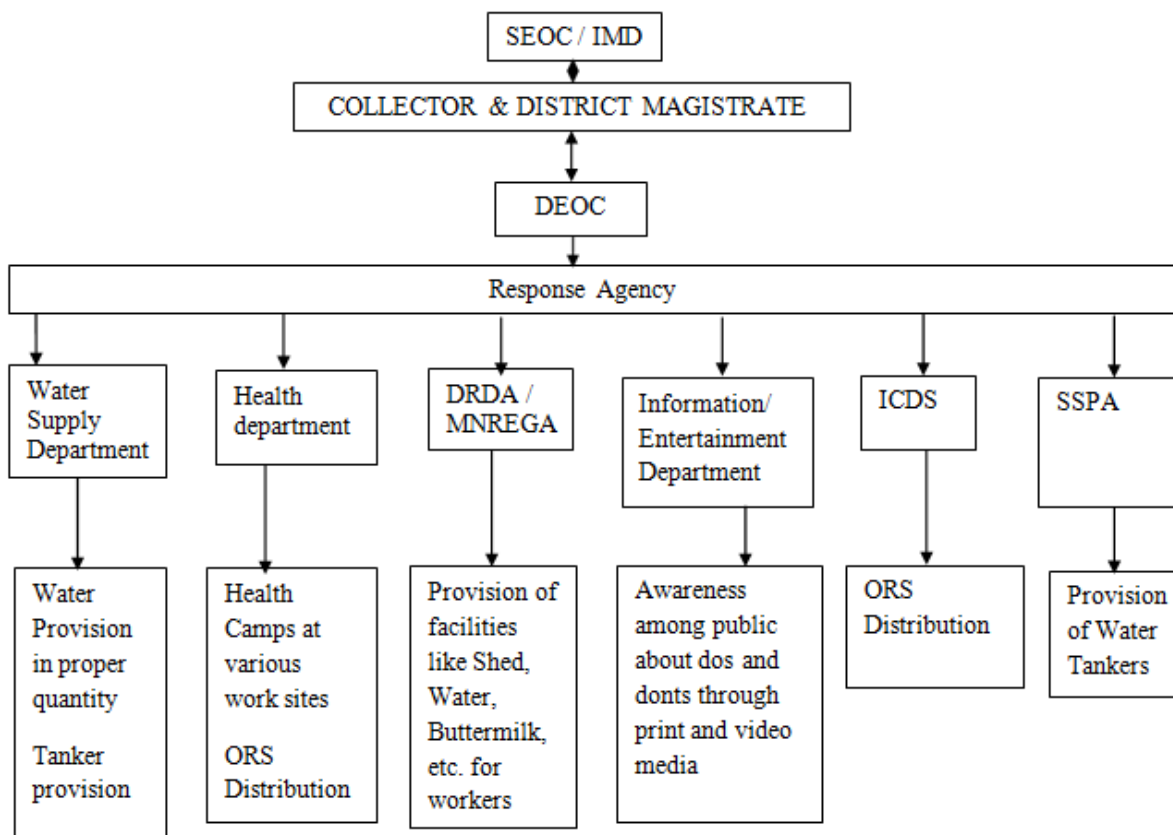
Heat wave need not be considered till maximum temperature of a station reaches at least 40° C for Plains and atleast 30° C for Hilly regions.

- A. 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° C or more
- B. 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° C or more
- C. When actual maximum temperature remains 45° C or more irrespective of normal maximum temperature
 - Heat wave should be declared.

Colour Signals for Heat Alert

The DDMA will issue heat alerts, based on thresholds determined, as an additional means of communication by using the following colour signal system:

Yellow Alert	Hot Day Advisory	41.1°C - 43°C
Orange Alert	Heat Alert Day	43.1°C – 44.9 °C
Red Alert	Extreme Heat Alert Day	≥ 45°C



The above table represents the responsibilities of different Departments for various provisions that will help public reduce the impact on their health. In addition to that, DO's and DONT's for reducing the impact of Heat Wave, has been issued by Gujarat State Disaster Management Authority, Govt. of Gujarat.

12.9 Pandemic Management Plan

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

The following actions are suggested for health & medical services.

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

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

12.10 Coastal Mass Rescue Plan

Policy

1. It is the policy of the signatory agencies to provide a national plan for coordinating Maritime Search and Rescue services to meet the national needs as well as regional and international commitments. Guidance for implementing this plan is amplified in the National Maritime Search and Rescue manual, International Aeronautical and Maritime Search and Rescue (IAMMAR) manual and other relevant directives of the agencies to this plan.

Purpose

2. This plan construes by inter-agency agreement, the effective use of all available resources and facilities to assist persons and property in potential or actual distress at sea within the Indian Search and Rescue Region (ISRR) regardless of the nationality or circumstances in which that person is found.

Terms and Definitions

3. Following are the terms and definitions based on International Maritime Organization usage for M-MAR:-

- (a) **MAR Coordinator**. A person or agency with overall responsibility for establishing and providing MAR services within the SRR and ensuring that planning for those services

is properly co-ordinated for which India is obliged under Maritime MAR Convention 1979.

(b) **Search and Rescue Region (SRR)**. An area of defined dimensions recognized by International Maritime Organisation (IMO) and International Civil Aviation Organisation (ICAO) or other cognizant international body and associated with a Rescue Co-ordination Centre, within which MAR services are provided.

(c) **Search and Rescue Sub-region (SRS)**. A specified area within a SRR associated with a rescue sub-centre.

(d) **MAR Services**. The performance of distress monitoring, communication, coordination and MAR functions, including provision of medical advice, initial medical assistance or medical evacuation, through the use of public and private resources including co-operating aircraft, vessels and other craft and installations.

(e) **Maritime Rescue Co-ordination Centre (MRCC)**. A unit responsible for promoting efficient organisation of MAR services at sea and coordinating the conduct of maritime - MAR operations within a SRR.

(f) **Maritime Rescue Sub-Centre (MRSC)**. A unit subordinate to a MRCC established to complement the latter according to particular provisions of the responsible authorities.

(g) **Search and Rescue Unit (SRU)**. A unit composed of trained personnel and provided with equipment suitable for the expeditious conduct of search and rescue operations.

(h) **On-scene Co-ordinator (OSC)**. A person designated to co-ordinate MAR operations within a specified area.

(i) **MAR Mission Co-ordinator (SMC)**. An official temporarily assigned to co-ordinate response to an actual or apparent distress situation.

(k) **Search and Rescue Point of Contact (SPOC)**. Rescue Co-ordination Centres and other established and recognized national points of contact which can accept responsibility to receive COSPAS-MARSAT alert data to enable the rescue of persons in distress.

(l) **Mission Control Centre (MCC)**. Part of the COSPAS-MARSAT System that accepts alert messages from the local user terminal(s) and other mission control centres to distribute to the appropriate Rescue Co-ordination Centres or other search and rescue points of contact.

- (m) **Search and Rescue Data Provider (SDP)**. A source for a Rescue Co-ordination Centre to contact for obtaining data to support search and rescue operations, including emergency information from communications equipment registration databases, ship reporting systems and environmental data systems (e.g. weather or sea current).

Objectives

4. Having known the obligations under several international conventions, agreements and instruments to render assistance to persons in distress at sea and to the establishment of effective MAR services, the participating agencies to this plan recognise the need for co-operation and co-ordination of activities regarding safety on and over the sea and desire to :-

- (a) Provide a national plan for co-ordinating MAR services, effective use of all available resources, mutual assistance and efforts to improve such co-operation and services for greater protection of life and property with economy of effort.
- (b) Support in implementing the provisions of International Maritime MAR Convention 1979 of IMO and other conventions to which India is or may become a party.

Scope

5. This plan is solely intended to provide internal guidance to all signatory agencies. No provisions of this plan or any supporting plan are to be construed in any way to contravene responsibilities and authorities of any participant as defined by statute, executive orders or international agreements or of established responsibilities of other agencies and organisations, which regularly assist persons and property in distress resulting from incidents. The participating members by signing this National Maritime MAR Plan, are obliged to fully extend all possible support and co-operation for effective conduct of MAR operations at sea.

Participating Agencies

6. The participating agencies to this plan are:-
- (a) **Ministry of Shipping**. Ministry of Shipping carries out broad responsibility w.r.t. Navigation and Port State Control of vessels and transportation safety. The Director General of Shipping, implementing agency for international conventions on maritime matters, shall promulgate all MAR preventive programmes on advise from the National Maritime MAR Board for commercial vessels operating in the Indian waters. They also maintain database of Maritime Mobile Service Identity (MMSI) numbers of all vessels registered with them.
 - (b) **Indian Coast Guard**. Indian Coast Guard has been designated as the national coordinator for the conduct of maritime MAR operations on and over the sea areas of

the Indian SRR. Towards this, the Indian Coast Guard develops, establishes, maintains and operates MAR facilities for maritime MAR operations. The operation is coordinated through Maritime Rescue Co-ordination Centres (MRCCs) and Maritime Rescue Sub Centres (MRSCs) located in maritime states of India.

(c) **Indian Navy**. Indian Navy has facilities and resources that are used to support their own operations. These facilities may be used for maritime MAR needs on a ‘not-to-interfere’ basis with military missions.

(d) **Indian Air Force**. Indian Air Force has MAR facilities for their own operation over land and sea. These facilities may be used for maritime MAR needs on a ‘not-to-interfere’ basis with military missions.

(e) **Shipping Industry**. Shipping industry operates a fleet of merchant ships for national use and promotes a safe merchant marine, which should assist and support when called upon in maritime MAR operations, in accordance with the national and international conventions and provisions.

(f) **Airports Authority**. Airports Authority of India undertakes air traffic control and maintains flight service facilities and shall provide information to assist in maritime MAR operations.

(g) **Meteorological Department**. Meteorological Department shall support MAR operations through timely input of weather messages, marine environment forecasts and warnings for the coastal and high seas and provide weather information on demand to co-ordinator and coordinating agency.

(h) **Department of Space (DoS)**. Department of Space (DoS) shall provide satellite “alert” services as per the guidelines of COSPAS-MARSAT, for detection and location of aircraft, ships and individuals in potential distress situation that carry recommended distress beacons. DoS also maintains beacon registration data base, through web based access, containing unique identity of the beacon, vessel/aircraft type, owner and emergency contact details as provided by the users and also distributes the same to concerned rescue co-ordination centre for MAR mission planning.

(j) **Chief Hydrographer**. Chief Hydrographer to Govt of India shall assist the maritime MAR agencies by timely promulgation of navigational warnings through NAVAREA and other measures.

(k) **Customs and Excise**. Customs and Excise provide rescue facility assistance, and equipment clearance during MAR operation involving foreign crew / passengers.

- (l) **Major Ports.** Major Ports provide rescue facility assistance to the MAR agencies during MAR operations occurring near ports and offshore areas. The major ports shall also provide berthing, towing, tug assistance to MAR agencies, when requested.
- (m) **Department of Telecommunication (DoT).** Department of Telecommunication (DoT) on advice from the coordinating agency, promulgates rules and regulations for non-government use of wireless and radio facilities for promoting safety of life and property and co-operation in MAR operations by relaying inputs obtained from Coast Radio Stations.
- (n) **Coastal State Government.** Coastal State Government shall provide assets, emergency medical and other facilities that would contribute to the effective MAR operations when requested by the coordinating agencies.
- (p) **Fishing Community.** Fishing Community representing fisher- folk and operating around our coasts shall provide assets to the coordinating agencies, when requested to augment MAR effort.
- (q) **Sailing Vessel Operators.** Sailing vessels operating around our coasts for commercial purposes shall provide assistance to the coordinating agencies, when requested to augment MAR effort.
- (r) **Director General of Civil Aviation (DGCA).** Director General of Civil Aviation (DGCA) is to provide an updated list of civil aircraft registered in India, coordinate flexi-use of air space by civil and military air traffic and issue air safety notices during a particular MAR operation involving various air units.
- (s) **Bureau of Immigration.** Bureau of Immigration to provide rescue facility by expediting immigration clearance during MAR operation involving foreign crew / passengers and also provide Regional and Foreign Language Experts whenever requisitioned by MAR agencies.
- (t) **Minor Ports.** Minor Ports to provide rescue facility assistance to the MAR agencies during MAR operations occurring near ports and offshore areas. The minor ports shall also provide priority berthing, towing, tug assistance to MAR agencies when requested.
- (u) **Private Ports.** Private Ports to provide rescue facility assistance to the MAR agencies during MAR operations occurring near ports and offshore areas. The private ports shall also provide priority berthing, towing, tug assistance to MAR agencies when requisitioned by MAR agencies.
- (v) **Oil Exploration Agencies.** Oil Exploration agencies (Government, PSUs and

Private) to provide offshore Supply Vessels, Tugs, helicopters, extend helipad of oil platforms/drill ships, medical facility whenever requisitioned by MAR agencies.

(w) **Airlines**. Airlines (Government, PSUs and Private) are to extend facilities to maritime MAR agencies whenever requisitioned. The airlines to provide passenger list of the aircraft in distress at sea and diversion of other aircraft, if feasible, to locate vessel/aircraft in distress.

(x) **Marine Police/Coastal Security Police (CSP)**. Marine Police/ Coastal Security Police (CSP) shall provide boats and other assistance to the coordinating agencies, when requested to augment MAR effort.

Indian Search and Rescue Region (ISRR)

7. SRR is established by a country solely to ensure the primary responsibility for coordinating or providing effective MAR services, communication network and routing of distress alerts to MRCC responsible for that geographic area. SRR should, as far as possible, be contiguous and not overlap.

8. India's maritime and aeronautical SRR will be harmonised with each other to the extent practicable, recognising that the lines separating SRR must be agreed by the countries having neighbouring SRRs. The delimitation of SRR is not related to and shall not prejudice the delimitation of any maritime boundary between neighbouring countries. The Indian SRR limits need to be resolved with the neighbouring countries for publishing in the documents of the IMO and ICAO.

9. SRR may be sub-divided into sub-regions as long as delimitation coincides with relevant SRR limits. Where this is not practicable, changes to the international limits should be taken up with the appropriate international organisation through proper channel by the maritime MAR Co-ordinator.

10. Each SRR is to be associated with a MRCC. The MRCC is responsible for coordinating the conduct of MAR operations within a SRR. The standards and guidance for the MRCCs has been developed by the IMO and can be found in international conventions and IAMMAR manual. They are to be kept in the MRCCs for reference.

Participant Responsibilities

Primary Responsibility

11. MAR coordinator is responsible for arranging MAR services and establishing the MRCCs within the SRR. The system established should meet International standards and to facilitate integration into the global maritime MAR system support outside Indian Search and Rescue Region.

12. MAR co-ordinator may support maritime MAR operations outside the Indian SRR

when requested, consistent with the expertise, capabilities and legal authority. This is in keeping with India's concern for safety of life at sea and the humanitarian nature of MAR and the advantages of national and international co-operation.

13. The Rescue Co-ordination Centre compatible with their capabilities and expertise will support maritime MAR operations in the neighbouring States territorial and international waters beyond Indian SRR when requested, in accordance with the international laws. In such cases, MAR operations shall, as far as practicable, be co-ordinated by the MRCC, which has authorised entry, or such other authority designated by the State concerned.

14. In carrying out Maritime MAR support functions with other nations, such as training, exercises, and liaison, each Participant will co-ordinate its activities with other Participants having maritime MAR expertise with respect to the support concerned.

15. While it is appropriate, that the Participants have the authority to do so, to co-operate and maintain liaison with maritime MAR authorities of other nations, such support should be dealt in co-ordination with the maritime MAR Co-ordinator and neighbouring MAR authorities. Such co-ordination will normally include Indian Coast Guard Headquarters, New Delhi, to ensure consistency with India's obligations under international agreements to which India is a Party, and compliance with the IAMMAR Manual and other relevant international guidance relevant to implementing such agreements.

16. Participants should not accept MAR Coordinator or MRCC role for maritime MAR operations of SRRs for which other nations are responsible. However, the Participants may provide and support maritime MAR operations in such areas when:

- (a) Assistance is requested (normally this should be in accordance with MRCC to MRCC procedures prescribed in the IAMMAR Manual).

17. Indian citizens are involved or Indian facilities become aware of a distress situation to which no other suitable facilities are responding, or where other available MAR services appear to be inadequate.

18. When assisting maritime MAR authorities of other nations, or agencies or organisations supporting these authorities, Participants to this Plan should ensure that :-

- (a) Have expertise and appropriate agreement to do so

- (b) Provisions of conventions or agreements to which India is Party are not violated.
- (c) Relevant procedures set forth in the IAMMAR manual, National MaritimeMAR manual and other relevant directives are known and complied.
- (d) Such efforts are carried out in consultation with Participants to this Plan.
- (e) Authorities assisted in that country are responsible for the MAR functions.

19. Policies on rendering assistance in neighbouring States' territorial waters must have the objective of balancing concerns for saving Lives, for sovereignty, and for national security. Provisions for territorial entry should be addressed in international MAR agreements as discussed below, and care should be taken to ensure that such agreements are compatible with the national policies.

20. Participants to this Plan if addressing maritime MAR-related inquiries or proposals from other nations or organisations outside India, or when hosting or attending international meetings on maritime MAR, care should be taken that interested Indian agencies, organizations, or persons are consulted and involved as appropriate.

Maritime MAR Agreements

21. Bilateral or multilateral MAR agreements with other Participating agencies or organizations, or with authorities of other nations, are of practical value to improve or simplify maritime MAR operations, and beneficial for purposes including :-

- (a) Helping to fulfill national or international obligations and needs.
- (b) Enabling more effective use of all available national resources.
- (c) Integration of Indian maritime MAR services with the global MAR system.
- (d) Identifying types of co-operative matters and efforts to build commitments that may enhance or support maritime MAR operations, such as access to medical or fuelling facilities; training and exercises; meetings; information exchanges and use of communications capabilities.

22. Negotiation and conclusion of such agreements should consider : -

- (a) Which authorities of the governments, agencies, or organizations concerned are the appropriate ones to have a formal agreement with.
- (b) Which types of MAR operations (e.g., aeronautical, maritime) or MAR support functions should be included within the scope of the agreement.
- (c) Congenial with international and national maritime MAR policies.
- (d) Establishment of lines separating SRRs, if relevant.
- (e) Whether other treaties, agreements, etc. exist which should be superseded or included for in preparation of a new agreement.

- (f) Relevant guidance of the IAMMAR manual and National maritime MAR manual.

23. Any such international agreement may not be signed or concluded without prior consultation with the Chairman, National MAR Board / MoS.

National Search and Rescue Board

24. The National Search and Rescue Board is the patron of this Plan. The Board, consistent with applicable laws and executive orders is to :-

- (a) Formulate and promulgate National MAR Plan.
- (b) Co-ordinate measures to be adopted by Participating agencies and formulate contingency plan.
- (c) Review and update matters relating to the Plan affecting more than one Participant, including recommendations for Plan revision or amendment.
- (d) Define functions to be performed by participating agencies.
- (e) Attending to matters relating to Maritime MAR as per IMO requirements in consultation with Ministry of Shipping.

25. The Board in particular, is intended to accomplish the following :-

- (a) Oversee this Plan and develop and maintain National Maritime MAR Manual. The applicability of the rules for MAR for defence forces should be in conformity with the provisions as enshrined in their respective Acts and practice in vogue.
- (b) Provide a standing national forum for co-ordination of administrative and operational Maritime MAR matters.
- (c) Provide an interface with other national, regional, and international organisations involved with providing or supporting maritime MAR service.
- (d) Develop and maintain suitable guidance for implementation of this Plan, such as a National Maritime MAR manual, supplement to the IAMMAR Manual.
- (e) Promote effective use of all available national resources for support of M-MAR.
- (f) Promote close co-operation and co-ordination with Armed Forces and other MAR communities for provision of effective maritime MAR services.
- (g) Improve co-operation among Maritime and Aeronautical MAR communities for the provision of effective Maritime MAR services.
- (h) Determine other ways to enhance the overall effectiveness and efficiency of M-MAR services, and to standardize procedures, equipment, and personnel training where practicable.

Maritime MAR Services

26. This Plan covers maritime MAR operations such as :-

- (a) Provision of initial assistance at or near the scene of a distress situation. (e.g., initial medical assistance or advice, medical evacuations, provision of needed food or clothing to survivors etc)
- (b) Delivery of survivors to place of safety or where follow up assistance can be provided.
- (c) Saving of property when it can be done in conjunction with saving lives.

27. Maritime MAR does not include operations such as :-

- (a) Air ambulance services, which did not result from a rescue or recovery operation.
- (b) Military operations, such as combat MAR or other types of recovery by military

- operations to remove military or civilian personnel.
- (c) Salvage operations.
- (d) Overall response to natural or man-made disasters or terrorist incidents.

Mutual Assistance

28. The Participants agree to co-operate :-
- (a) Support each other by pooling relevant facilities and resources as appropriate for M-MAR operations within the SRR.
 - (b) Make, and respond to, requests for operational assistance between the designated MRCCs, MRSCs, of the Participants as capabilities permit.
 - (c) Develop procedures, communications, and databases appropriate for coordination of facilities responding to distress incidents, and for co-ordination between the MRCCs, MRSCs of the Participants.
 - (d) Follow applicable guidance of the IMO or other relevant international laws regarding M-MAR operational procedures and communications.

Charging for M-MAR Services

29. In accordance with customary international laws, when a nation requests help from another nation to assist a person(s) in danger or distress, if such help is provided, it will be done voluntarily, and India will neither request nor pay reimbursement of cost for such assistance.
30. Participants agree that maritime MAR services they provide to persons in danger or distress will be without subsequent cost-recovery from the person(s) assisted.
31. Participants are to fund their own activities in relation to this Plan unless otherwise arranged by the Participants in advance, and will not allow a matter of reimbursement of cost among them to delay response to any person in danger or distress.

PRINCIPLES ACCEPTED BY THE PARTICIPANTS

General

32. Participants coordinating operations should, consistent with applicable laws and executive orders, organise existing agencies and their facilities through suitable agreements into a basic network to assist military and non-military persons and property in actual or potential danger or distress, and to carry out obligations under customary international laws and instruments to which India is or may become a Party.
33. Participants will seek to keep political, economic, jurisdictional, or other such factors as secondary when dealing with lifesaving matters, i.e., where possible, what is best for lifesaving will govern their decisions.
34. Consistency and harmonisation will be fostered wherever practicable among plans, procedures, equipment, agreements, training, terminology, etc., for the various types of lifesaving and recovery operations, taking into account terms and definitions adopted internationally as much as possible.
35. If a distress situation appears to exist or may exist, rescue or similar recovery efforts will be based on the assumption that a distress situation does actually exist until it is known differently.
36. Assistance will always be provided to persons in distress without regard to their nationality, status, or circumstances.
37. Generally, cost-effective safety, regulatory, or diplomatic measures that tend to

minimize the need for M-MAR services will be supported.

38. Recognising the importance of reduced response time to the successful rescue and similar recovery efforts, a continual focus will be maintained on developing and implementing measures to reduce the time required for :-

- (a) Receiving alerts and information associated with distress situations.
- (b) Planning and coordinating operations.
- (c) Facility transits and searches.
- (d) Rescues or recoveries.
- (e) Providing immediate assistance, such as medical assistance, food and clothing to survivors, as appropriate.

Research and Development

39. Research and development efforts for MAR need to be undertaken for improvements in MAR services. The focus of such efforts usually, is to develop data, procedures or equipment which enables MAR services to be more effective. Finding ways to exploit new and emerging technologies for MAR to make it a common focus for research and development.

40. Research and development results should be shared with other maritime nations to reduce the risk of duplicated efforts and to maximize the benefits of the results.

Training, Qualification and Certification

41. Training and experience are crucial for effective MAR response and efficient conduct of any operations. Officer-in-charge, MRCCs and MRCC/ MRSC staffs need specialized training in watch keeping, coordination of available resources, search planning and rescue planning. MAR co-ordinator has the responsibility to ensure an effective overall training programme. It will normally be the responsibility of the Officer-in-Charge (O i/c) of the MRCCs to ensure that personnel manning RCCs/MRCCs are adequately trained for undertaking MAR Operations. Qualification and certification processes are to be ensured, so that, sufficient experience, maturity and judgments are gained. During a qualification process, the individual must, by demonstration of abilities, show mental and physical competence to perform as part of a team. Officer-in-charge, MRCCs/MRSCs need to issue a certificate to all personnel prior independent watch keeping in MRCCs/MRSCs.

Validation of National MAR Plan

42. (a) The requirement of a MAR mission is called for without any prior notice or appointment. The agencies likely to be involved in the MAR operations are to be geared up in all respects so as to be ready to render assistance, if required. Also, the procedures involved in undertaking such an operation with various agencies on the scene are to be very well known to the agencies and also to the personnel of every faculty. Therefore, to ensure that everyone is prepared in all respects and work in cohesion, MAR training and exercises involving all the agencies are to be conducted periodically by simulating a MAR scenario. This will enhance the capabilities of the MAR system further and allow every agency to evaluate their capabilities to respond to any actual MAR requirement. The frequency of exercises will be as follows:-

- | | | | |
|------|---|---|------------|
| (i) | National level exercise | - | biennially |
| | involving national and international participants | | |
| (ii) | Regional level exercise | - | annually |

Inter Agency Liaison.

- (i) All personnel involved in the MAR operations should maintain constant liaison with the MRCC and the co-ordinating MRCC should, in turn, maintain constant touch with the military authorities providing SRUs and other MAR agencies involved in the operation to help coordinate the activities, provide briefing and debriefing and keep Search & Rescue Mission Co-ordinator (SMC) informed on the SRU availability. Adequate background information must be provided so as to develop a picture on, what actions might have been taken by the missing craft and provide expertise about the craft to aid in search planning during all joint operations. This will also enable conduct of co-ordinated studies, review of procedures and equipment and recommendation of better method of operation. Any development in this regard should be informed to the SMC in an ongoing operation.
- (ii) The inter agency liaison will enable review of MAR matters affecting more than one agency, including recommendations of participating agencies for revision and amendment of the plan. This will also encourage all the agencies involved to develop equipment and procedures to enhance the national MAR capability and promote coordinated development of all national MAR resources.

Maritime Search and Rescue (M-MAR)

- 43. Personnel associated with the MAR activities should be familiar with the International Convention on Maritime Search and Rescue, IAMMAR manual, National maritime MAR manual and other information applicable to M-MAR.
- 44. MAR principles and procedures of relevant customary international Conventions and IAMMAR Manual will serve as guidelines for co-ordination and conduct of MAR operations especially when dealing with other countries, organisations or jurisdictions. National maritime MAR manual and the MAR plan will be consistent with these international provisions to the extent practicable.
- 45. Indian Coast Guard will operate and maintain a ship reporting system (INDMAR) exclusively for maritime MAR operations, which is voluntary for ships transiting the Indian SRR. The information collated would enable identification of potential ship in the area to quickly respond to the distress situation. The ships send their data through the INMARSAT on entering SRR and every 24 hours thereafter and prior exiting the SRR. (This system will be used only for MAR with its information being treated as “commercial proprietary” as promised to the ships reporting).
- 46. Operational responsibilities for maritime MAR will generally be associated with internationally recognised geographic maritime SRR. Indian Coast Guard has been assigned the responsibility for co-ordinating M-MAR operations in Indian SRR with other agencies and organisations providing support as appropriate.
- 47. Distress situations involving airborne aircraft ditching in sea, will be handled by the maritime MAR authorities (i.e. Coast Guard) in co-ordination with the aeronautical MAR authorities.
- 48. Agencies responsible for MAR operations under this Plan will :-
 - (a) Keep information readily available on the status and availability of key MAR facilities or other resources, which may be needed for MAR operations.
 - (b) Keep each other fully and promptly informed of operations of mutual interest, or which may involve use of facilities of another Participant.
- 49. MAR Co-ordinator will delegate to their MRCCs the authority to :-

- (a) Request assistance via the MRCC/MRSC of other nations, and to provide all pertinent information on the distress situation and the scope of assistance needed.
 - (b) Promptly respond to requests for assistance from other MRCC/MRSC, including those of other nations.
 - (c) Grant permission for entry into Indian waters for MAR facilities of other nations if need arises.
 - (d) Make arrangements with customs, immigration, health or other authorities to expedite entry of foreign MAR facilities as appropriate.
50. MAR Co-ordinator will authorise the MRCCs to arrange promptly or in advance for entry of foreign rescue units into India should it ever become necessary. Such arrangements should involve appropriate authorities in India as well as proper authorities of the nation or MAR facility involved with the entry. Such entry may include over flight or landing of MAR aircraft, and similar for surface MAR units as circumstances dictate for fuelling, medical, or other appropriate and available operational support, or delivery of survivors. It could also be in response to a request made by the Indian MRCC to the MRCC of another nation for assistance of those facilities.
51. Operations of MAR facilities committed to any MAR mission normally should be coordinated, and directed, by an appropriate MRCC or MRSC consistent with the provisions of this plan.
52. On-scene co-ordination may be delegated to any appropriate unit participating in a particular incident by the MAR mission coordinator of a MRCC.
53. No provision of this Plan or any supporting plan is to be construed as an obstruction to prompt an effective action by any agency or individual to relieve distress whenever and wherever found.
54. MAR Co-ordinator shall arrange for the receipt of distress alerts originating from within SRR for which they are responsible, and ensure that every MRCC and MRSC can communicate with persons in distress, with MAR facilities, and with other MRCCs/MRSCs.

Armed Forces - Civilian Relationships

55. Arrangements between Armed Forces and civilian agencies should provide for co-operation among themselves, consistent with statutory responsibilities and assigned MAR functions.
56. Co-operative arrangements involving Navy, Air Force and Coast Guard commands should provide for the effective use of their facilities for maritime MAR on a not-to interfere basis with military missions, consistent with statutory responsibilities and assigned agency functions.
57. Participants with operational responsibilities should develop plans and procedures for effective use of all available MAR facilities, and for contingencies to continue maritime MAR operations if military forces are withdrawn because of another emergency or a change in military missions.
58. Navy and Air force responsibilities under this Plan include support of maritime MAR on a not-to-interfere basis with primary military duties, in accordance with applicable national directives, plans, guidelines, agreements, etc.
59. To optimise delivery of efficient and effective MAR services, and, where practicable and consistent with agency authorities, provide the organisations and persons interested in supporting these services the opportunity to do so, all available resources will be used for maritime MAR. Certain state and local governments, civil and volunteer organisations, and private enterprises have facilities, which contribute to the effectiveness of the over-all MAR

network, although they are not participants to this Plan.

60. To help identify, locate and quantify primary MAR facilities, Navy, Air force and Coast Guard commands may designate facilities which meet international standards for equipment and personnel training as MAR units (SRUs). (Such facilities need not be dedicated exclusively to the associated type of operations, and this designation is not intended to preclude use of other resources).

61. Recognising the critical role of communication in receiving information about distress situations and co-coordinating responses, and noting that such responses sometimes involve multiple organisations and jurisdictions, the participants will work aggressively to develop suitable MAR provisions for :-

- (a) Interoperability.
- (b) Means of sending and receiving alerting.
- (c) Means of identification.
- (d) Effective provisions for equipment registration and continual access to registration data by MAR authorities.
- (e) Rapid, automatic, and direct routing of emergency communications.
- (f) High system reliability.
- (g) Pre-emptive or priority processing of distress communications.

Assistance During National Disasters

62. National Disasters Management (NDM) Policy 2009 also stipulates general responsibilities for the armed forces during a national disaster. The NMMAR Board forms an important part of the Government's response capacity and the resource agencies are the immediate responders in all serious disaster situations along the coast and at sea. On account of its vast potential to meet any adverse challenge, speed of operational response and the resources and capabilities, the NMMAR Board through its resource agencies in past, has played a major role in emergency support functions including communication, search and rescue operations, health & medical facilities and transportation, especially in the immediate aftermath of a disaster. NMMAR Board will always remain prepared and will coordinate Search and Rescue (MAR) operation at sea by the resource agencies during national disasters like Tsunami and provide assistance to neighbouring countries whenever called upon by the Government.

Mass Rescue Operation (MRO)

63. Mass Rescue Operations (MROs) often need to be carried out and co-ordinated within a broader emergency response context that may involve hazards mitigation, damage control and salvage operations, pollution control, complex traffic management, larger-scale logistics, medical and coroner functions, accident-incident investigation, and intense public and political attention, etc. Efforts must often start immediately at an intense level and be sustainable for days or weeks.

64. MAR Authorities should co-ordinate MRO plans with companies that operate aircraft and ships designed to carry large number of persons. Such companies should share in preparation to prevent MROs and to help ensure success if they become necessary.

65. Since opportunities to handle actual incidents involving mass rescues are rare and challenging, exercising MRO plans is particularly important.

Suspension or Termination of Operations

66. Maritime MAR operations shall normally continue until all reasonable hope of

rescuingsurvivors or victims has lapsed.

67. The responsible MRCC/MRSC concerned shall decide when to discontinue these operations. If no such centre is involved in coordinating the operations, the OSC may take this decision. If there is no OSC involved, the decision will be made at appropriate level of the chain-of-command of the MAR facility conducting the operations.

68. When a MRCC/MRSC or an appropriate authority considers, on the basis of reliable information that a rescue or recovery operation has been successful, or that the emergency no longer exists, it shall terminate the MAR operations. The authority terminating should inform the authority, facility or service which has been activated or notified.

69. If an operation on scene becomes impracticable and the MRCC/MRSC or an appropriate authority concludes that survivors might still be alive, it may temporarily suspend the on-scene activities pending further developments. They should promptly inform the authority, facility or service which has been activated or notified. Information subsequently received shall be evaluated and operations resumed when justified based on the information.

Entry into Force Amendment or Termination

70. This Plan :-

- (a) Shall enter into force as soon as the emergency is declared..
- (b) May be amended by written agreement among the Participants.
- (c) May be terminated or superseded by a new Plan or by written agreement among the Participant.
- (d) This Plan will be reviewed after five years.

Some of the important crisis are as under

- (a) Hostage or terrorist situation requiring specialized handling.
- (b) Attempts by terrorists / extremists to create a major scare of poisoning or use of nuclear / biological / chemical weapons.
- (c) Assassination or attempted assassination or kidnapping or disappearance of an Indian or Foreign high dignitaries.
- (d) Mutiny.
- (e) Migration / Exodus / Infiltration.

2. Composition and Function of the various committees.

State crisis management committee: -

To deal with the crisis situation in the state, Gujarat State Government has constituted the state crisis management committee with the following members.

Sr. No.	Name & Address (Member)	Name & Address (Alternate Member)
1	Chief Secretary, Block-1, III Floor, Sachivalaya Gandhinagar, T.No.(O) 079-23250313, Mob.No.9974806112	Addl. Chief Secretary, Home, Block-2, Ist Floor, Sachivalaya Gandhinagar, T.No.(O) 079-23250502,3,5 Mob.No.9974806117

2	Addl. Chief Secretary, Home, Block-2, Ist Floor, Sachivalaya Gandhinagar, T.No.(O)079-23251501,591,507 Mob.No.9974806117	Secretary L&O, Block-1 9th Floor, Sachivalay Gandhinagar, T.No. 079-232522156 Mob.No. 9978406119
3	Principal Secretary (Revenue) & Relief Commissioner, Blook-11 IV Floor, Sachivalay Gandhinagar, T.No.079- 23251509, 06, Mob.No. 9974806109	Director of Relief /Dy.Sec. Relief, Blook-11 7th Floor, Sachivalay Gandhinagar, T.No. 079-23251611,12 Mob.No.997406087,
4	C.E.O., G.S.D.M.A Udhog Bhuvan Gandhinagar, T.No.079-23259502, Mob.No. 9978407002	Addl. C.E.O. G.S.D.M.A, Udhog Bhavan Gandhinagar, Mob.No.,9978405655
5	DGP & IGP, Police Bhavan Ist Floor Gandhinagar, T.No.079-23246333, 23259989, Mob.No. 9978406195	Addl. D.G.P. L & O, Police Bhavan Ist Floor Gandhinagar, T.No.079-23254222, Mob. 9978406198
6	The I.G.P. Inte., Police Bhavan Ist Floor Gandhinagar, T.No.079-23254301, Mob. 9978406251	DIGP (Coastal Security), Dafnana Ahmedabad, T.No.079-23254314, Mob.No.9978405299
7	Joint Director, Central IB, Sagar Appartment, SVP enclave, Bodakdev, Ahmedabad. T.No.079-22685880, Mob.No.9925031242	Dy. Director, Central IB, Sagar Appartment, SVP enclave, Bodakdev, Ahmedabad. T.No.079-22685880.

State level police control room is activated at Gandhinagar whose telephoneNo, is 079-23251914, 23251912, 23251900, 23251916, 23251902 and fax no. is 079-23246329. It could be contacted any time during any type of crisis.

The Nodal department will be meanly responsible for taking all action to deal witha particular crisis situation. Home Department will be the Nodal Department for the above crises situation.

Nodal Department will establish a crisis group for dealing with crisis which fall within the ambit of its responsibility. The crisis group will be mainly responsible fordealing with a crisis situation and for reporting all developments to the state crisis management committee seeking its direction and guidance as and when necessary. Nodal Department will have a well-equipped Control Room for quick receipt of information and dissemination of command instructions. As seen as a crisis situation develops and it warrants attention of the state crises management committee it will be the responsibility of the secretary of the Nodal Department to report it to the state crisismanagement committee, who in turn will inform to the Intern:" Crisis Management Committee and the District Crisis Management Committee.

District Crisis Management Committee: -

To deal with the crisis situation in Surat District, the District Crisis Management Committee will consist of the following members.

Sr. No.	Name & Contact Details (Member)	Name & Contact Details (Alternate Member)
1	District Collector & D.M.(Chairman) Surat, T.No.0261-2652525,2669080 Mob.No.9978406222	RAC, Surat T. No.0261-2660011, Mob.No.9978405220
2	Commissioner of Police, Surat T.No.0261 - 2244440, Mob. No. 9978465080	Superintendent of Police, Surat T.No.0261-2651831, Mob.No.9978405082
3	CDHO, Surat T.No.0261-2430780/589, Mob. No. 9727709501	ACDHO T.No.0261-2425751-55 Mob.No. 9727709506
4	DCIO-II Central IB, Surat, Office of Assistant Central Intelligence Officer, I.B(MHA),Govt.of india, 0261-2764523	ACIO-Surat Central IB, Surat office 0261-2764523
5	Dy. Commissioner Intelligence, T.No.0261-2652748 Mo. No. 9978405491	PI, State IB, Surat, T. No. 02876-243619 Mo. No. 9825040365
6	Dy. SP, HQ, Surat, T.No.02661-2651840, Mob.9978408074	
7	Mamlatdar Disaster, Surat, T.No.0261-2663200,	Dy. Mamlatdar Disaster, Surat T.No.0261-2663200

Surat District Crisis management Committee will function from the DEOC Surat Dist. Control Room. Immediately on the occurrence of the crisis the local action plan would be put into effect by the Dist. Committee. Most of the action in a crisis situation will be taken at the district level hence district committee will remain in contact of with Internal Committee and state crisis management committee and give information regarding crisis situation and will follow the instruction received from the above committees and will act according to the advice and other of the above committees. The District Committee will meet minimum once in every six months in normal circumstances and will discussed the problems likely to arise during crisis situations and suggest measures for modernization of different plans.

(1) Search and Rescue Team :-

If any crisis situation rise, 'E' Coys of SRP will work as search and rescue team SRPF, Vav. They will be called through Addl. DG of Police Arms, G.S, Gandhinagar. Telephone No. of SRP Vav is 9978484211.

(2) Chetak Commandos :-

Units of SRP are prepared and trained as Chetak Commandos they are capable to drill with heavy crisis like terrorist attack. If this type of crisis rise in this district these commandos will be called through Addl. DG of Police Arms, GS, Gandhinagar.

Telephone No. of SRP group is 9978484211.

(3) Mock drill :-

Taking into consideration District Crisis Management Plan, mock drills are planned and implemented. Sagar Kavach mock drill is planned and implemented in coordination with Coast Guard and other agencies connected with security. Mock drill will be planned at every year with co-ordination of DCMP group.

(4) Trigger Mechanism :-

If any such situation arises, district crisis management plan will be implemented as per the directions of the Chairman, District Crisis Management Group.

(5) E.O.C.

As per emergency management planning, EOC which is established in the office of the DM will be treated as main EOC when any crisis takes place as also when the law and order situation in the district is jeopardized, the District Control Room will act in coordination with the District EOC Control Room. Telephone No. of District EOC Control Room is 0261 – 2663200 and Police Control Room No. 0261-2651840. The incharge of this EOC Control Room will be not Granted but Disaster Dy Mamlatdar and his cell phone No. is 9537235978. All taluka has their own control room. District level EOC will be manned by Disaster Mamlatdar-1, DPO-GSDMA-1, Deputy Mamlatdar Flood relief-1, Peon-1 equipped with Inverter set-1, V-Sat Phone -1, Computer-3 (with internet connectivity) TV-1 (with various channels), - 1 In exigency, additional manpower from other department is called for & utilized at EOC.

(6) Media Management:-

In consultation with Assi. Director of Information, Surat immediate steps will be taken for media management. His contact No. is 8238039597/ 9256284019.

(7) Negotiation Team

Sr. No.	Designation	Mobile Number
1	Police Commissioner	9978406276
2	Supdt. of Police	9978405082
3	Dy.S.P Surat HQ	9978408074
4	Costal Security	0261-2805060
5	PI, State IB, Surat	9825040365
6	ACIO, Central IB Surat	9482066368
7	RMO Civil Hospital Surat	9825327004
8	Interpreter, Hazira	9157140931

Indian Cost Gard Daman contact Number: 02602405705

12.11 BOREWELL SAFETY MEASURES

GUIDELINES REGARDING BORE WELL SAFETY MEASURES BY THE SUPREME COURT:

Safety measures/guidelines as given in the Order dated 11.02.2010 of Hon'ble Supreme Court are to be observed by all the States: -

- i) The owner of the land/premises, before taking any steps for construction bore well/tube well must inform in writing at least 15 days in advance to the concerned authorities in the area, i.e., District Collector/District Magistrate/Sarpanch of the Gram Panchayat/ Concerned officers of the Department of Ground Water/ Public Health/Municipal Corporation, as the case may be, about the construction of bore well/tube well.
- ii) Registration of all the drilling agencies, viz., Govt./Semi Govt./Private etc. should be mandatory with the district administration.
- iii) Erection of signboard at the time of construction near the well with the following details:-(a) Complete address of the drilling agency at the time of construction/ rehabilitation of well. (b) Complete address of the user agency/owner of the well.
- iv) Erection of barbed wire fencing or any other suitable barrier around the well during construction.
- v) Construction of cement/concrete platform measuring 0.50x0.50x0.60 meter (0.30 meter above ground level and 0.30 meter below ground level) around the well casing.
- vi) Capping of well assembly by welding steel plate or by providing a strong cap to be fixed to the casing pipe with bolts and nuts.
- vii) In case of pump repair, the tube well should not be left uncovered.

- viii) Filling of mud pits and channels after completion of works.
- ix) Filling up abandoned Bore wells by clay/sand/boulders/pebbles/drill cuttings etc. from bottom to ground level.
- x) On completion of the drilling operations at a particular location, the ground conditions are to be restored as before the start of drilling.
- xi) District Collector should be empowered to verify that the above guidelines are being followed and proper monitoring check about the status of boreholes/tube-wells are being taken care through the concerned State/Central Government agencies.
- xii) District/Block/Village wise status of bore wells/tube-wells drilled viz. No. of wells in use, No. of abandoned bore wells/tube wells found open, No. of abandoned Bore wells/tube wells properly filled up to ground level and balance number of abandoned Bore wells/tube-wells to be filled up to ground level is to be maintained at District Level. In rural areas, the monitoring of the above is to be done through village Sarpanch and the Executive from the Agriculture Department.
- xiii) If a Bore well/tube-well is 'Abandoned' at any stage, a certificate from the concerned department of Ground Water/Public health/Municipal Corporation/Private contractor etc. must be obtained by the aforesaid agencies that the 'Abandoned' Bore well/tube- well is properly filled up-to the ground level. Random inspection of the abandoned wells is also to be done by the Executive of the concern agency/department. Information on all such data on the above are to be maintained in the District Collector/Block Development Office of the State.

12.12 Outline about SOP for War/Air Raid

Measures for safeguarding the civil population against the effects of hostile attacks, whether by air or otherwise, have become a necessary part of the Defence Organisation of every civilized country.

Generally, Air attack is designed to:

- (a) to dislocate war production by the destruction of industry and by attacks on the employees
- (b) to dislocate the life of the community by damage to essential services such as power, light, water, sewage, communications by rail, road, inland waterways, telephone and telegraph and by impeding the supply of essential commodities such as food and fuel
- (c) to shatter the morale of the people both by (a) and (b) above and also by direct attack on them
- (d) to facilitate the operations of hostile ground forces by causing panic and confusion in the rear of the defending armies.

Air attack affects every aspect of the life of community and thus it must be the duty of the Government to devise measures for minimising its effects. Civil Defence therefore is the sum total of all measures which are intended to minimise the effects of air raids. The main objects of civil Defence are:

- (i) to save life;
- (ii) to minimise damage to property; and
- (iii) to maintain continuity of production.

It follows that measures necessary for Civil Defence (as distinguished from active defence) are an extension of the peacetime functions of the Government to suit war conditions and that the responsibility for each subject to Civil Defence should be placed on that Department of the Government which administers a similar subject in peacetime,

e.g.

The Health Department - Responsible for emergency hospitals organisation.

The Public Works Department - Responsible for design and execution of protective works.

The Education Department - Responsible for Civil Defence in educational establishments, museums, libraries, art galleries and archaeological monuments.

This principle should be observed throughout the administration. The Commissioner, District Magistrate and Sub-Divisional Officer respectively are the ultimate authority for Civil Defence in the Division, District and Sub-Division. All communications from the Government regarding Civil Defence matters should be sent to or through the District Magistrate, or failing this, copies should be sent to him for information as he is responsible for the proper organisation and functioning of the Civil Defence Services even though a separate Controller may have been appointed. In certain cases it may be found more convenient to have an "autonomous" Controller i.e. one who works directly under Government. The above officers require additional assistance if they are to discharge their added responsibilities. While each Department is responsible for policy and technical direction of Civil Defence, measures must be devised co-ordinate departmental activities so as to harmonise with one general plan and to prevent gaps or overlapping.

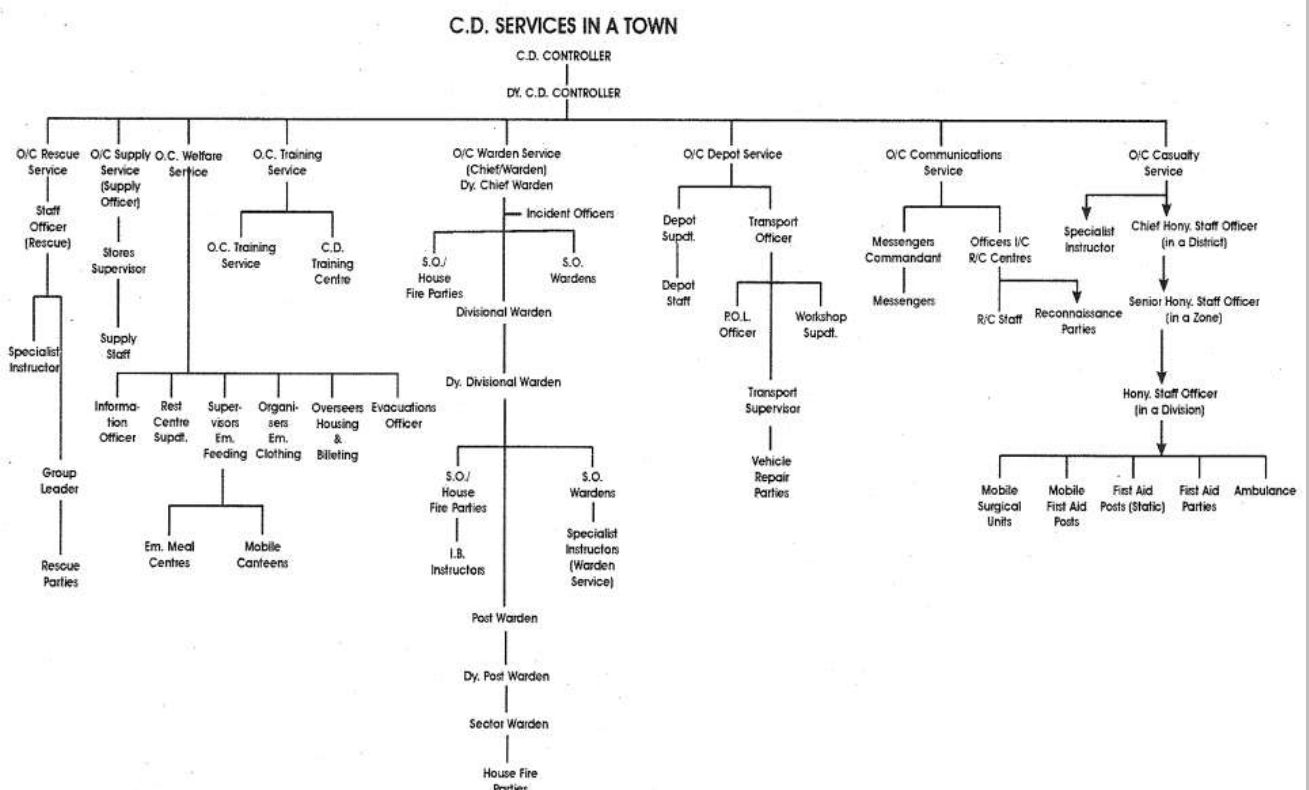
Arrangements for Civil Defence designed to minimise the effect of air attacks are inter alia as follows :-

- (a) The prevention and control of panic by prior education, training and organisation.
- (b) Training of Civil Defence personnel.
- (c) Securing collection of damage reports, control and deployment of C.D. Services and provision for alternative means of communications.

- (d) Placing Fire Service on war footing and recruitment of whole-time and parttime auxiliary fire-men, watching for the fall of incendiary bombs and control of fires in the incipient stage; providing and developing alternative sources of water supplies for fire fighting purposes.
- (e) Rescue of casualties trapped under debris.
- (f) Report and control of incidents affecting the fire and rescue services.
- (g) First-aid of air raid casualties, transport to establishments capable of providing appropriate treatment.
- (h) Provision of Welfare facilities such as :-
 - (I) Care of the homeless establishment of Rest Centers and housing and billeting organizations.
 - (II) Information and guidance on essential matters.
 - (III) Evacuation of people in an orderly manner from target areas to safer zones.
 - (IV) Ensuring the supply, storage and distribution of essential foodstuffs and measures for emergency clothing and feeding of the civilian population.
- (i) Disposal of the dead and identification thereof.
- (j) (I) Provision of air raid shelters.
 - (II) Protection of Government buildings against air attacks generally.
- (k) Mobilization of transport-requisitioning of vehicles required for Civil Defence Services, control and issue of petrol, oil, lubricants, spare parts and repair facilities for C.D. vehicles.
- (l) Earmarking and requisitioning of premises required for Civil Defence purposes.
- (m) A co-ordinated and controlled Warning System and dissemination of air raid messages to authorized recipients and the public.
- (n) Lighting restrictions and other legal provisions necessary for fulfilment of Civil Defence objectives.
- (o) Protection of articles and objects of art and culture of national importance.
- (p) Removal of debris, also repairs of slight damaged houses and demolition of dangerous constructions.
- (q) Special measures for the protection of Essential Services and industries of vital importance, repair arrangements for quick restoration thereof.
- (r) Earmarking of hospitals, provision of emergency beds, medical and nursing staff.
- (s) Measures for emergency sanitation and provision of alternative supply of water for drinking, cooking, washing and sanitation.

- (t) Dispersal of industry and/or warehouses for essential commodities.
- (u) Reconnaissance, collection and disposal of unexploded bombs.
- (v) Static Camouflage of vital targets.
- (w) Salvage and custody of valuables.
- (x) Procurement, distribution, care, maintenance, accounting and inspection of C.D. equipment.
- (y) Care of animals.
- (z) Mutual aid schemes for reinforcing the local resources and co-ordination between different local authorities.
- (aa) Publicity and public co-operation.
- (ab) Panic-prevention and control.

Typical organisation structure of Civil Defence in the District



During the time of various operations of the Government of India, i.e. Operation Sindhoor, and mock drills, i.e. Operation Abhyaas and Operation Shield, the following committees comprising 12 Civil Defence services were formed, which can be used further.

Civil Defence Services:

(૧) મુખ્ય મથક સેવા:							
યુદ્ધ અને આપત્તિ સમયે નાગરિક સંરક્ષણની તમામ સેવાઓનું સંકલન અને સંચાલન જીલ્લા મુખ્યમથક મુકામે જીલ્લા કક્ષાના નોડલ ઓફીસરશ્રી દ્વારા અને પ્રાંત વાઈઝ મુખ્ય મથક મુકામે સબપિલ ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી દ્વારા મુખ્ય મથક સેવા દ્વારા કરવામાં આવશે. નિયંત્રકશ્રી, નાગરિક સંરક્ષણનાં અધ્યક્ષસ્થાને કટોકટી સમયે બાર સેવાનાં વડાઓ જીલ્લા મુખ્યમથક અને પ્રાંત વાઈઝ મુખ્ય મથક ખાતે ભેગા થઈ, આવેલ કટોકટીની સમીક્ષા કરશે અને બચાવ કામગીરીની રણનીતિ નક્કી કરી તેનું સંચાલન કરવામાં આવશે. અગત્યના પગલા લેવાં, આશ્રય સ્થાનો નક્કી કરવા, આશ્રય સ્થાનો તરીકે સ્કૂલ, કોમ્યુનીટી હોલ નક્કી કરવી, ઈવેક્યુએશન પ્લાન તૈયાર કરવા, સુરત મહાનગરલિકાના સેન્ટ્રલ ઝોનમાં ૧૦૦ સ્થળો નક્કી કરવા, પબ્લીક હોલકે બેલ્ટ વોર્નિંગ સીસ્ટમ સ્થાપિત કરવી. જાણ કક્ષા, ગ્રામ્ય લેવલ તેમજ એ.પી.એમ.સી.સુધી ઝડપી સંદેશ મળે તેમજ તમામને ઝડપી સંદેશ મળે તે બાબત સુનિશ્ચિત કરવી, બોટી માહિતી/અકવા ન પ્રસારે તેની તકેદારી રાખવી, નાગરિક સંરક્ષણની તમામ ૧૨ પ્રકારની સેવા સમિતી એક્ટીવેટ કરવી, સાયરનની સમજ બાપવી. કાયસીસ ગ્રુપ બનાવવું. મેસેજ રજીસ્ટર નિશ્ચયવા. Back power પાવર સહિત હેડ ક્વાર્ટર તમામ ઇન્ફ્રાસ્ટ્રક્ચર થી સજ્જ રાખવું. લોકોને સિસ્ટમથી જોડવા.જિલ્લા કક્ષાએથી તેમજ પ્રાંત કક્ષાએથી તેઓના કોલેલકુમના નંબર તેમજ સોશીયલ મિડીયા એકાઉન્ટનો પ્રચાર પ્રસાર કરવો.							
ક્રમ નં.	જિલ્લા નોડલ અધિકારીશ્રીઓ	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી					
૧	શ્રી ડિ.એમ.બગસરીયા, ખાસ જમીન સંપાદન અધિકારીશ્રી, યુનિટ નં.૪, સુરત,જિલ્લા.સુરત મો.નં. ૯૪૨૬૧-૧૫૦૦૪ ઈમેઇલ:30Jaqu4@gmail.com	(૧) સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષીણ) શ્રી વી.જે.બંડારી મો.97256 76767	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાશ્વે તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત શ્રી વી.જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કીશિક જાદવ મો.75670 11470
(૨) વોર્ડન સેવા:							
ચીફ વોર્ડન આ સેવાનાં વડા છે, તેમનાં નેજા હેઠળ નાગરિક સંરક્ષણ દળનાં માનદ પદાધિકારીઓ અને સ્વયંસેવકો બચાવ અંગેની કામગીરીમાં સરકારી તંત્રને મદદરૂપ બને છે. નાગરિક સંરક્ષણ દળ નાગરિકોનું બનેલું માનદ દળ છે અને તેમાં ભારતનો પુખ્ત વયનો નાગરિક જોડાઈ શકે છે. વોર્ડન સેવા નાગરિક સંરક્ષણની આંખ અને કાન છે તેમજ સરકારી તંત્ર અને નાગરિકો વચ્ચે જોડતી કડી છે, વોર્ડન તેનાં વિસ્તારથી પરિચિત હોવો જોઈએ, વોર્ડન તેની પાસે વોર્ડન ડાયરી અને ફાઉસ ફોલ્ડ રજીસ્ટરમાં જરૂરી માહિતી ભેગી કરે છે. હવાઈ કુમલા સમયે વોર્ડન સાયરન કે દુર દ્વારા લોકોને ચેતવે છે તેમજ ટોર ટોર સંપર્ક કરી પુર્વવત્ પરિસ્થિતિનું નિર્માણ કરવા મદદરૂપ બને છે.							
ક્રમ નં.	Warden Service માટેના જિલ્લા કક્ષાના નોડલ અધિકારીશ્રી	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)					
૧	(૧) શ્રી રાહુલ ચૌધરી નાયબ કલેક્ટર (જ.સુ) અને ઇ.યા નાગરિક સંરક્ષણ કચેરી, સુરત ફોન નં. ૦૨૬૧- ૨૬૬૬૨૦૦/૨૬૬૦૦૧૧ ફેક્સ નં. ૦૨૬૧-૨૬૫૫૭૫૭ મો.નં.૯૭૨૪૩-૩૦૬૦૬ ઈ-મેઇલ: 44.tenancysurat@gmail.com	(૧) સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષીણ) શ્રી વી.જે.બંડારી મો.97256 76767	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાશ્વે તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત શ્રી વી.જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કીશિક જાદવ મો.75670 11470
૨		(૨) મોહમ્મદ નવેદ, એ. શોખ, ડેપ્યુટી ચીફ વોર્ડનશ્રી, મો.97277 00136 (૩) શ્રી કાનજીભાઈ આર.ભાલાળા, ચીફ વોર્ડનશ્રી નાગરિક સંરક્ષણ કચેરી, સુરત મો.99251 33366	(૩) શ્રી કાનજીભાઈ આર.ભાલાળા, ચીફ વોર્ડનશ્રી નાગરિક સંરક્ષણ કચેરી, સુરત મો.99251 33366	(૨) મોહમ્મદ નવેદ, એ. શોખ, ડેપ્યુટી ચીફ વોર્ડનશ્રી, મો.97277 00136	(૨)શ્રી મેહુલ બી. સોરઠીયા, ડેપ્યુટી ચીફ વોર્ડનશ્રી મો.98251 18188	(૨)શ્રી મેહુલ બી. સોરઠીયા, ડેપ્યુટી ચીફ વોર્ડનશ્રી મો.98251 18188	(૨) શ્રી વિજય એ. છેરા ડેપ્યુટી ચીફ વોર્ડનશ્રી મો.99134 13354
(૩) અગ્નિ શામક સેવા:							
ફાયરબ્રિગેડનાં વડા અગ્નિ શામક સેવાનાં પણ વડા છે. નાગરિક સંરક્ષણની ફાઉસ ફોલ્ડ ફાયર પાર્ટી ફાયર બ્રિગેડ દ્વારા તાલિમ આપી તૈયાર કરેલ વોર્ડનોની ટુકડી છે. યુદ્ધ સમયે આગિયા બોંબને કારણે લાગેલ આગ ઓલવવા સ્ટીયરપ પંપ, પાણી, રેતી જેવા સાધનોની મદદથી આગ ઓલવવા આ ટુકડી ફાયર બ્રિગેડને મદદરૂપ થાય છે.							
ક્રમ નં.	Fire Fighting Service માટેના જિલ્લા કક્ષાના નોડલ અધિકારીશ્રી	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી					

૧	(૧)શ્રી ધીરજ કુમાર, નાયબ વન સંરક્ષકશ્રી, વન વિભાગ, સુરત મો.90130 68713	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષીણ) શ્રી વી.જે.ભડાસરી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાર્થ તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત શ્રી જી. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કૌશિક જાદવ મો.75670 11470
૨	(૧)શ્રી બસંત પારિખ, ચીફ ફાયર ઓફિસરશ્રી, સુરત મહાનગરપાલિકા સુરત (સહ નોડલ સુરત શહેર અને સુરત ગ્રામ્ય.) મો.97243 45553 (૨)શ્રી પૂજાશ હેડાવ, ઇયા ચીફ ફાયર ઓફિસરશ્રી, સુરત મહાનગરપાલિકા સુરત (સહ નોડલ સુરત શહેર અને સુરત ગ્રામ્ય.) મો.80878 01238	(૨) ૧.શ્રી હાઉસકુમાર એ પટેલ ડી.ઓ, સુરત મહાનગરપાલિકા, ફાયર વિભાગ સુરત ૨.શ્રી એફ.જે.ગઢવી ઈ.યા.ડી.ઓ, સુરતમહાનગરપાલિકા, ફાયર વિભાગ સુરત ૩.શ્રી એચ.કે.હાશર ઈ.યા.ડી.ઓ, સુરતમહાનગરપાલિકા, ફાયર વિભાગ સુરત	(૨) શ્રી હરમેશ પટેલ સબ ફાયર ઓફિસરશ્રી, સુરત મહાનગરપાલિકા, સુરત મો.96012 77530	(૨) શ્રી પૂજેશ ગઢવી, ડીસ્ટ્રીક્ટ ફાયર ઓફિસરશ્રી, સુરત મહાનગરપાલિકા, સુરત મો.99743 35667	(૨)શ્રી બીપીનભાઈ ખલાશી, રીજનલ ફાયર ઓફિસરશ્રી, સુરત મહાનગરપાલિકા, સુરત મો.98981 15604	(૨)શ્રી રૂબે સોની, સબ ફાયર ઓફિસરશ્રી, માંડવી નગરપાલિકા ફાયર સ્ટેશન, સુરત મો.99743 35667
૩	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ ફાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ ફાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ ફાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ ફાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ ફાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ ફાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333
૪	(૪)શ્રી અનિલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ, વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી અનિલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ, વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી અનિલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ, વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી અનિલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ, વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી અનિલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ, વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી અનિલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ, વાવ કામરેજ, 99784 29011, 99784 84211
૫	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, 6th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, 6th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, 6th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, 6th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, 6th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, 6th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)
(૪) આકસ્મિક સેવા: સિવિલ હોસ્પીટલનાં સિવિલ સર્જન આકસ્મિક સેવાનાં વડા હોય છે. આ સેવાની મુખ્ય કામગીરી યુદ્ધ તથા કુદરતી આપદા સમયે ઈજાગ્રસ્તોને પ્રાથમિક સારવાર આપી નજીકની હોસ્પીટલ/દવાખાને ખસેડવાની છે. ઈજા પામેલાઓને સ્થળ પર પ્રાથમિક સારવાર આપવી, તેમને પ્રાથમિક સહાય મળે તે માટે તાકીદનાં કામચલાઉ ઉપચાર મથકો ઊભા કરવા, હરતી ફરતી હોસ્પીટલ તેમજ એમ્બ્યુલન્સની સેવા કાર્યરત કરવાની રહે છે. ફસ્ટ એઈડ પાર્ટી ચાર સભ્યો અને એક ડ્રાઈવર મળી પાંચ સભ્યોની હોય છે.						
ક્રમ નં.	Casualty Service માટેના જિલ્લા કક્ષાના નોડલ અધિકારીશ્રી	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી				
૧	(૧) સુ.શ્રી કલ્પકા વસાવા, નાયબ નિયામકશ્રી, (સ્પીપા),અડાજણ, સુરત મો.નં. ૯૭૨૭૬-૩૪૯૪૮ ઈ-મેઈલ: srtdputydirector@yahoo.in	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષીણ) શ્રી વી.જે.ભડાસરી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાર્થ તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત શ્રી જી. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252

૨	(૨)ડૉ.સી.બી.પટેલ, પબ્લીક હેલ્થ ઓફિસરશ્રી, સુરત મહાનગરપાલીકા-મુખ્ય કચેરી, સુરત મો.99045 10100 rcho.health.surat@gmail.com	(૨)ડૉ.કલ્પેશ ખત્રી, ડેપ્યુટી હેલ્થ ઓફિસરશ્રી, સુરત મહાનગરપાલીકા-નોર્થ ઝોન, સુરત મો.90990 07981 dymohnz@suratmunicipal.org	(૨)ડૉ.કલ્પેશ ખત્રી, ડેપ્યુટી હેલ્થ ઓફિસરશ્રી, સુરત મહાનગરપાલીકા-નોર્થ ઝોન, સુરત મો.90990 07981 dymohnz@suratmunicipal.org	(૨) ડૉ.નિમેશ દેસાઇ ડેપ્યુટી હેલ્થ ઓફિસરશ્રી, સુરત મહાનગરપાલીકા-સાઉથ ઝોન, સુરત મો.90990 07985 dymohsez@suratmunicipal.org	(૨) ડૉ.નિમેશ દેસાઇ ડેપ્યુટી હેલ્થ ઓફિસરશ્રી, સુરત મહાનગરપાલીકા-સાઉથ ઝોન, સુરત મો.90990 07985 dymohsez@suratmunicipal.org	(૨) ડૉ.નિમેશ દેસાઇ ડેપ્યુટી હેલ્થ ઓફિસરશ્રી, સુરત મહાનગરપાલીકા-સાઉથ ઝોન, સુરત મો.90990 07985 dymohsez@suratmunicipal.org	(૨) ડૉ.નિમેશ દેસાઇ ડેપ્યુટી હેલ્થ ઓફિસરશ્રી, સુરત મહાનગરપાલીકા-સાઉથ ઝોન, સુરત મો.90990 07985 dymohsez@suratmunicipal.org
૩	(૩) ડૉ.ધાર્તીબેન પરમાર, CDMOશ્રી સુરત મહાનગરપાલીકા, સુરત મો.98258 94058 ms.health.surat, ms.health.surat2@gmail.com	(૩)ડૉ.કેતન નાયક રેસીડેન્સી, મેડીકલ ઓફીસરશ્રી, સીવીલ હોસ્પિટલ, સુરત મો.98253 27004 rmo.health.surat1@gmail.com	(૩)ડૉ.કેતન નાયક રેસીડેન્સી, મેડીકલ ઓફીસરશ્રી, સીવીલ હોસ્પિટલ, સુરત મો.98253 27004 rmo.health.surat1@gmail.com	(૩)ડૉ.દિનેશભાઈ વસાવા DTOશ્રી, સુરત મો.97277 09618 dtogusrt@gmail.com	(૩)ડૉ.સુજાતભાઈ પરમાર ADHOશ્રી, સુરત મો.97277 09504 adho.health.surat@gmail.com	(૩)ડૉ.પીપુષ્પભાઈ શાહ, RCHO શ્રી, સુરત મો.97277 09506, rcho.health.surat@gmail.com	(૩) ડૉ.દિનેશભાઈ વસાવા, DTOશ્રી, સુરત મો.97277 09618, dtogusrt@gmail.com
૪	(૩) ડૉ.અનીલભાઈ પટેલ, CDHOશ્રી સુરત મો.97277 09501, cdho.health.surat6@gmail.com						
૫	(૪)ડૉ.જીતેન્દ્ર દર્શન, મેડીકલ સુપરીટેન્ડન્ટશ્રી, સ્મીમેર મેડીકલ કોલેજ, સુરત મો.99045 10100	(૪)ડૉ.જયેશ પટેલ, સીનિયર RMOશ્રી, સ્મીમેર મેડીકલ કોલેજ, સુરત મો.98256 00848	(૪)ડૉ.જયેશ પટેલ, સીનિયર RMOશ્રી, સ્મીમેર મેડીકલ કોલેજ, સુરત મો.98256 00848	(૪) ડૉ. કેતન નાયક, RMOશ્રી, સીવીલ હોસ્પિટલ, સુરત મો.98253 27004	(૪) ડૉ. કેતન નાયક, RMOશ્રી, સીવીલ હોસ્પિટલ, સુરત મો.98253 27004	(૪) ડૉ. કેતન નાયક, RMOશ્રી, સીવીલ હોસ્પિટલ, સુરત મો.98253 27004	(૪) ડૉ. કેતન નાયક, RMOશ્રી, સીવીલ હોસ્પિટલ, સુરત મો.98253 27004
૬	(૫)ડૉ.સી.બી.પટેલ, Indian Medical Association, સુરત મો.99045 10100	(૫)ડૉ.હિરેન વેશ, Indian Medical Association, સુરત મો.79906 91909	(૫)ડૉ.પાઝલ વડગામા, Indian Medical Association, સુરત મો.98795 33318	(૫)ડૉ.ઉર્ડીત યાવડા, Indian Medical Association, સુરત મો.89804 92784	(૫)ડૉ.રણજીવ વ્યાસ, Indian Medical Association, સુરત મો.96383 61031	(૫)ડૉ.ગીરીશ મોદી, Indian Medical Association, સુરત મો.98241 40402	(૫)ડૉ.રાજીવ વ્યાસ, Indian Medical Association, સુરત મો.96383 61031
૭	(૬)ડૉ.પ્રકાશ શીરોયા, RED CROSS SOCIETY, સુરત મો.98250 34591	(૬) ડૉ.જીગનેશ પટેલ RED CROSS SOCIETY, સુરત મો.90999 27164	(૬)ડૉ.મુકેશ જગીવાલા RED CROSS SOCIETY, સુરત મો.98795 21795	(૬)ડૉ.જીગનેશ સિંહ ઠાકોર RED CROSS SOCIETY, સુરત મો.94278 35977	(૬) ડૉ.અશ્વિન ગાંધી, RED CROSS SOCIETY, સુરત મો.98241 82040	(૬)ડૉ.હિતેશગીરી ગોસ્વામી RED CROSS SOCIETY, સુરત મો.99048 70273	(૬)ડૉ.મનોજ જેન RED CROSS SOCIETY, સુરત મો.98259 45208
(૫) સંદેશા વ્યવહાર સેવા: ભારતીય દુરસંચાર નિગમ લી.નાં જનરલ મેનેજર આ સેવાનાં વડા છે, કયોકદી સમયે સંદેશા વ્યવહાર ખોટકાઈ ન જાય તે જોવાની જવાબદારી આ સેવાની રહેલી છે. આ એક ખુબ જ અગત્યની સેવા છે કેમ કે કયોકદી સમયે બચાવ કાર્ય કરવા અને થયેલ નુકશાનીનો કયાસ કાઢવા ઝડપી સંદેશા વ્યવહાર ખુબ જરૂરી છે. અસરગ્રસ્ત વિસ્તારમાં કયા વિસ્તારમાં કેટલું નુકશાન થયેલ છે, તે અંગેની સચોટ માહિતી સમયસર ઉપલબ્ધ થાય તો રાહત સામગ્રી તેમજ બચાવ ટ્રકડીઓ બનતી ત્વરાએ મોકલી શકાય અને જાનમાલનાં નુકશાનનું પ્રમાણ ઘટાડી શકાય. હવાઈ હુમલા સમયે નાગરિકોને દુશ્મન દેશનાં હુમલાની તેમજ હુમલો થઈ ગયા પછી સબ સલામતની જાણ કરવા સાચરન કે સિસોટીનો ઉપયોગ કરી લોકોને ચેતવવામાં આવતા હોય છે.							
ક્રમ નં.	Communication Service માટેના જિલ્લા કક્ષાના નોંડલ અધિકારીશ્રી	ઇન્સ્ટીટ્યુટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)					
૧	(૧) નાયબ કલેક્ટરશ્રી, પ્રોટોકોલ સુ શ્રી જી.એ. પાંડે મો.7490002876	(૧) સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષીણ) શ્રી વી.જે.ભંડારી મો.97256 76767	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાર્થ તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ શ્રી જી. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપલીયા મો.99048 53252	(૧)સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કોશિક જાદવ મો.75670 11470

૨	(૨) શ્રી પરીમલ જી. ચૌધરી એજ્યુએમશ્રી(સી.એફ.એ-અર્બન) બી.એસ.એન.એલ.સુરત મો.94271 07964	(૨) શ્રી પરીમલ જી. ચૌધરી એજ્યુએમશ્રી(સી.એફ.એ-અર્બન) બી.એસ.એન.એલ.સુરત મો.94271 07964	(૨) શ્રી પરીમલ જી. ચૌધરી એજ્યુએમશ્રી(સી.એફ.એ-અર્બન) બી.એસ.એન.એલ.સુરત મો.94271 07964	(૨) શ્રી ડી.જે. પરમાર, એસ.ડી.ઇ. આર ઓલપાડ બી.એસ.એન.એલ.સુરત મો.94087 08303	(૨)શ્રી નિમેષ ચૌધરી, જે.ટી.ઓ, બારડોલી, બી.એસ.એન.એલ, સુરત મો.94263 19615	(૨)શ્રી ધનવત જે. વસાવા, જે.ટી.ઓ, બી.એસ.એન.એલ, સુરત મો.94299 43256	(૨)શ્રી પૂર્ણેશ પટેલ જે.ટી.ઓ, માંડવી, બી.એસ.એન.એલ, સુરત મો.98795 20117
૩	(૩) શ્રી એચ.જી. પટેલ, પો.ઇ/પો.સ.ઇ., સુરત શહેર પોલીસ મો.9099408481	(૩) શ્રી આર.આર. બઘેલ, પો.સ.ઇ., સુરત શહેર પોલીસ મો.9638457357	(૩) શ્રી ડી.એ. પટેલ પો.સ.ઇ., સુરત શહેર પોલીસ મો.9913580324	(૪)શ્રી શેલેસ દુગરીયા, WPC,ઓલપાડ મો.63537 25749 (૪) દ.ધારામ સરદશાઇ, LR, ઓલપાડ મો.63545 04088	(૪)શ્રી અર્યનાબેન ધોડભાઇ, WLR, બારડોલી, મો.74360 99282 (૪) ગોપાલ ડીલીપભાઇ, ULR, બારડોલી, મો.93284 96606	(૪)શ્રી કલ્પનાબેન ભુલાભાઇ, WLR, કામરેજ મો.79848 68293 (૪) શ્રી નમ્રતાબેન અમૃતભાઇ, WLR, કામરેજ મો.92659 42571	(૪)શ્રી નિશાબેન જગદીશભાઇ, WLR, માંડવી, મો.63504 30094 (૪)શ્રી ભાવનાબેન ગોપાલભાઇ, WLR, માંડવી, મો.76985 60321
	(૪) કાયરેક્ટરશ્રી, સુરત એરપોર્ટ મો.9429892020						
	(૫) સર્વિસ પ્રોવાઇડરશ્રી, જીઓ,વોડાફોન- આઇડીઆ, એરટેલ						
૫	સર્વિસ પ્રોવાઇડરશ્રી, હંમ રેડીયો						
૬	એફ.એમ. રેડીઓ સર્વિસ પ્રોવાઇડર						

(૬) બચાવ સેવા:

પી.ડબલ્યુ.ડી. વિભાગનાં અધિકારી આ સેવાનાં વડા છે. નાગરિક સંરક્ષણ દ્વારા તાલીમ પામેલ બચાવ ટુકડીને સાથે રાખી આ સેવા હેઠળ બચાવ કામગીરી કરવામાં આવતી હોય છે. જેમની મુખ્ય કામગીરીમાં ઘરાશયી મકાનમાંથી લોકોને બહાર કાઢવા, ઈજાગુસ્તોને બચાવવા અને મકાનોને હંગામી ટેકા આપવા છે, નાગરિક સંરક્ષણની બચાવ ટુકડી કુલ ૮ સભ્યોની બનેલી હોય છે.

ક્રમ નં.	Rescue Service માટેના જિલ્લા કક્ષાના નોંડલ અધિકારીશ્રી	ઇન્સ્ટીટ્યુટ કમાન્ડર અને સબ ડીવીઝનલ મેજસ્ટ્રેટશ્રી (પ્રાંત વાઇઝ હેડ ક્વાર્ટર સર્વિસ)					
૧	(૧) સુશ્રી હેતલ પટેલ, નાયબ પોલીસ કમિશનરશ્રી, સુરત શહેરી, સુરત (અધ્યક્ષશ્રી) મો.7069052768 9898442694	(૧) સબ ડીવીઝન મેજસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષિણ) શ્રી વી.જે.બડારી મો.97256 76767	(૧)સબ ડીવીઝન મેજસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાશ્વે તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ.શ્રી જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી.કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કીશિક જાદવ મો.75670 11470
૨	(૨) શ્રી પૂર્ણેશ ચૌધરી કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન રાજ્ય વિભાગ -૧ (સહ અધ્યક્ષશ્રી) મો.966207250	(૨) શ્રી સંપત સુથાર, સબ કાયર ઓફિસરશ્રી, સુરત મહાનગરપાલીકા, સુરત મો.99794 58149	(૨) શ્રી વિજય પટેલ ડીવીઝનલ કાયર ઓફિસરશ્રી, સુરત મહાનગરપાલીકા, સુરત મો.99791 60813	(૨) શ્રી ધરમેશ પટેલ સબ કાયર ઓફિસરશ્રી, સુરત મહાનગરપાલીકા, સુરત મો.96012 77530	(૨) શ્રી પૂર્ણેશ ગઢવી, ડીસ્ટ્રીક્ટ કાયર ઓફિસરશ્રી, સુરત મહાનગરપાલીકા, સુરત મો.99743 35667	(૨)શ્રી બીપીનભાઇ ખલ્લાશી, રીજનલ કાયર ઓફિસરશ્રી, સુરત મહાનગરપાલીકા, સુરત મો.98981 15604	(૨)શ્રી રૂષિ સોની, સબ કાયર ઓફિસરશ્રી, માંડવી નગરપાલીકા કાયર સ્ટેશન, સુરત મો.99743 35667
૩	(૩) શ્રી નિલેશ પટેલ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન રાજ્ય વિભાગ -૨ મો.9904179900	(૩) શ્રી અભિજીત ગઢવી રીજીયોનલ કાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ કાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ કાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ કાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ કાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333	(૩)શ્રી અભિજીત ગઢવી રીજીયોનલ કાયર ઓફિસરશ્રી, સુરત ગ્રામ્ય મો.76007 53333
૪	(૪) શ્રી કિર્તેશ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન પંચાયત મો.989806578	(૪)શ્રી આંનેલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ. વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી આંનેલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ. વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી આંનેલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ. વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી આંનેલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ. વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી આંનેલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ. વાવ કામરેજ, 99784 29011, 99784 84211	(૪)શ્રી આંનેલ એમ. પટેલ ડી.વાઇ.એસ.પી. એસ.ડી.આર.એફ. વાવ કામરેજ, 99784 29011, 99784 84211

૫	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, ૬૫th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, ૬૫th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, ૬૫th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, ૬૫th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, ૬૫th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)	(૫) શ્રી દેવીલાલ, ઇસ્પેક્ટરશ્રી, એન.ડી.આર.એફ, ૬૫th BN, વડોદરા(હાલ પોસ્ટીંગ, તા.ઓલપાડ)
૬	સંબંધિત ઝોનના કાર્યપાલક ઈજનેરશ્રીઓ	સંબંધિત ઝોનના કાર્યપાલક ઈજનેરશ્રીઓ	(૬) શ્રી નિલેશ પટેલ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન રાજ્ય વિભાગ -૨ મો.9904179900	(૬) શ્રી કિર્તેશ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન પંચાયત મો.989806578	(૬) શ્રી નિલેશ પટેલ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન રાજ્ય વિભાગ -૨ મો.9904179900	(૬) શ્રી કિર્તેશ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન પંચાયત મો.989806578

(૭) તાલીમ સેવા:

આ સેવા નાગરિક સંરક્ષણનું હાર્દ છે. ટ્રેઈનિંગ ઈન્સ્ટ્રક્ટર કે જીલ્લા શિક્ષણાધિકારી આ સેવાનાં વડા છે. આ સેવા દ્વારા શાંતિનાં સમયે નાગરિકોને પ્રાથમિક તાલિમનું આયોજન કરવામાં આવે છે જે તાલીમ ભારતનો પુખ્ત વયનો કોઈપણ નાગરિક લઈ શકે છે. તેમજ નિમણૂક પામેલા વોર્ડનોને અમદાવાદ લાલ દરવાજા ખાતે આવેલ રાજ્ય કક્ષાની તાલીમ શાળા તેમજ નાગપુર ખાતે આવેલ નેશનલ સીવીલ ડીફેન્સ કોલેજ તેમજ ભારત સરકારનાં અન્ય ટ્રેનિંગ ઈન્સ્ટિટ્યુટ ખાતે એડવાન્સ તાલીમ માટે મોકલવામાં આવે છે.

ક્રમ નં.	Training Service માટેના જિલ્લા કક્ષાના નોડલ અધિકારીશ્રી	ઇન્સીન્ટન્ડ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)					
૧	(૧) ટ્રેઈનિંગ ઇન્સ્ટ્રક્ટરશ્રી, સીવીલ ડીફેન્સ ઓફિસ સુરત	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષિણ) શ્રી વી.જે.ભંડારી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાથ તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ.શ્રી જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કીશિક જાદવ મો.75670 11470
૨	(૨)ડો.ભગીરથસિંહ એસ.પરમાર, જિલ્લા શિક્ષણ અધિકારીશ્રી, સુરત મો.99099 70218	(૨)શ્રી મેહુલ ભાઈ પટેલ, ઈ.ચાર્જ શાસનાધિકારીશ્રી, નગર પ્રાથમિક શિક્ષણ સમિતિ, સુરત. મો.97243 45498	(૨)શ્રી અરૂણ અગ્રવાલ, શાસનાધિકારીશ્રી, નગર પ્રાથમિક શિક્ષણ સમિતિ, સુરત. મો.99099 71697	(૨) શ્રી નગીન ભાઈ, તાલુકા પ્રાથમિક શિક્ષણ અધિકારીશ્રી, સુરત મો.99092 47048	(૨)તાલુકા પ્રાથમિક શિક્ષણ અધિકારીશ્રી, સુરત મો.98794 35422	(૨)શ્રી જ્યોતીબેન પટેલ, તાલુકા પ્રાથમિક શિક્ષણ અધિકારીશ્રી, સુરત મો.98252 06658	(૨) તાલુકા પ્રાથમિક શિક્ષણ અધિકારીશ્રી, સુરત મો.79840 69084, 99251 52384
૩	(૩) રજીસ્ટ્રારશ્રી, વીર નર્મેદ દક્ષિણ ગુજ, યુનિવર્સિટી. મો.૬૩૫૭૧૬૩ ૬૩૫						
૪	(૪) શ્રી કે.બી.મિસ્ત્રી, આચાર્યશ્રી, આઈ.ટી.આઈ., મજુરા ગેટ, સુરત મો. ૯૮૭૯૯૫૮૯૯૦						
૫	(૫) શ્રી વર્જેસિંહ વસાવા નાયબ જીલ્લા પ્રાથમિક શિક્ષણ અધિકારીશ્રી, સુરત મો.૯૭૩૭૨૭૦૭૯૦						

(૮) કલ્યાણ સેવા:

સમાજ કલ્યાણ અધિકારીનાં નેજા હેઠળ ચાલતી આ સેવાની કામગીરી નિરાશ્રિત થયેલા લોકો માટે આશ્રયસ્થાન તેમજ જીવન જરૂરીયાતની ચીજ વસ્તુઓ પુરી પાડવાની રહેલી છે. નિરાશ્રિતોને ખાદ્ય સામગ્રી, પાણી, ઔષધ, કપડા, ટેન્ટ/આશ્રયસ્થાન વિગેરે મળી રહે તેની વ્યવસ્થા, માહિતી ડેસ્ક ઊભા કરવા, રેસ્ટ સેન્ટર, સ્થળાંતર જેવી કામગીરીમાં નાગરિક સંરક્ષણનાં વોર્ડનો મદદરૂપ થતા હોય છે.

ક્રમ નં.	Supply Service માટેના જિલ્લા કક્ષાના નોડલ અધિકારીશ્રી	ઇન્સીન્ટન્ડ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)
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૧	(૧) સુ.શ્રી એચ.બી.ભાલાળા, ખાસ જમીન સંપાદન અધિકારીશ્રી, શાખા નં. ૧ ની કચેરી, સુરત ફોન.નં. ૦૨૬૧-૨૪૬૫૨૯૪ મો.નં. ૭૦૯૬૩-૨૫૧૦૪ ઈ-મેઇલ: laqIsurat@gmail.com	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષીણ) શ્રી વી.જે.ભડારી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાર્થ તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ.શ્રી જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કૌશિક જાદવ મો.75670 11470
૨	(૨) શ્રી રમેશ બલદાણીયા નાયબ નિયામકશ્રી વિકસતિ જાતી, સુરત મો.9374742505	(૨) શ્રી રમેશ બલદાણીયા નાયબ નિયામકશ્રી વિકસતિ જાતી, સુરત મો.9374742505	(૨) શ્રી રમેશ બલદાણીયા નાયબ નિયામકશ્રી વિકસતિ જાતી, સુરત મો.9374742505	(૨) શ્રી જિજ્ઞેશ ચૌધરી, જિલ્લા સમાજ સુરક્ષા અધિકારીશ્રી મો.૮૮૬૬૩૭૭૨૭૧	(૨)શ્રી મિતલ પટેલ, નાયબ નિયામકશ્રી અનુસૂચિતજાતિ સુરત, મો.94267 53204	(૨) શ્રી જિજ્ઞેશ ચૌધરી, જિલ્લા સમાજ સુરક્ષા અધિકારીશ્રી મો.૮૮૬૬૩૭૭૨૭૧	(૨) શ્રી આર. બી. બારડ મદદનીશ કમિશનરશ્રી આદિજાતી, સુરત મો.
(૯) ડેપો અને વાહન વ્યવહાર સેવા: આર.ટી.ઓ.અધિકારી હાદાની રૂએ આ સેવાનાં વડા છે. તેઓ કટોકટી સમયે વાહન વ્યવહાર રાખેતા મુજબ રાખવા, રાહત સામગ્રીનો પુરવઠો અસરગ્રસ્ત વિસ્તારમાં પહોંચાડવા કે લોકોનાં સ્થળાંતર માટે પુરતા વાહનો ઉપલબ્ધ કરાવે છે. કંટ્રોલની સુચના મુજબ વાહનો મેળવી, ઈંધણ પૂરું પાડી, સર્વિસ-રીપેરીંગ, જાળવણીનું કામ કરે છે. જરૂર પડે વાહનો સંપાદન કરે છે.							
ક્રમ નં.	Depot & Transportation Service માટેના જિલ્લા કક્ષાના નોંડલ અધિકારીશ્રી	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)					
૧	(૧) શ્રી હિરેન એમ.પટેલ પ્રાદેશિક પરિવહન અધિકારી મો.9099051455 rto-trans-sur@gujarat.Gov.In	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષીણ) શ્રી વી.જે.ભડારી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાર્થ તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ.શ્રી જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કૌશિક જાદવ મો.75670 11470
૨	(૨) શ્રી ઓ.જી. સુરતી, વિભાગીય નિયંત્રકશ્રી, જી.એસ.આર.ટી.સી. સુરત મો. 50૫૯૯૧૮૭૪૬, મો. 53૫૯૯૯૧૯૦૪૦	(૨) વિભાગીય નિયંત્રકશ્રી, જી.એસ.આર.ટી.સી. સુરત	(૨) વિભાગીય નિયંત્રકશ્રી, જી.એસ.આર.ટી.સી. સુરત	(૨) ડેપો મેનેજરશ્રી ઓલપાડ મો.6359918762	(૨) ડેપો મેનેજરશ્રી બારડોલી મો.6359918756	(૨) વિભાગીય નિયંત્રકશ્રી, જી.એસ.આર.ટી.સી. સુરત	(૨) ડેપો મેનેજરશ્રી માંડવી મો.6359918759
૩	(૩) શ્રી પ્રતિક લઠીયા સહાયક પ્રાદેશિક વાહનવ્યવહાર અધિકારી બારડોલી મો :-8160179660, 02622-223457 Arto_trans_brd@gujarat.gov.in	(૧) શ્રી હિરેન એમ.પટેલ પ્રાદેશિક પરિવહન અધિકારીશ્રી મો.9099051455 rto-trans-sur@gujarat.Gov.In	(૧) શ્રી હિરેન એમ.પટેલ પ્રાદેશિક પરિવહન અધિકારીશ્રી મો.9099051455 rto-trans-sur@gujarat.Gov.In	(૧) શ્રી હિરેન એમ.પટેલ પ્રાદેશિક પરિવહન અધિકારીશ્રી મો.9099051455 rto-trans-sur@gujarat.Gov.In	(૩) શ્રી પ્રતિક લઠીયા સહાયક પ્રાદેશિક વાહનવ્યવહાર અધિકારીશ્રી બારડોલી મો :-8160179660, 02622-223457 Arto_trans_brd@gujarat.gov.in	(૩) શ્રી પ્રતિક લઠીયા સહાયક પ્રાદેશિક વાહનવ્યવહાર અધિકારીશ્રી બારડોલી મો :-8160179660, 02622-223457 Arto_trans_brd@gujarat.gov.in	(૩) શ્રી પ્રતિક લઠીયા સહાયક પ્રાદેશિક વાહનવ્યવહાર અધિકારીશ્રી બારડોલી મો :-8160179660, 02622-223457 Arto_trans_brd@gujarat.gov.in
(૧૦) મડદા નિકાલ સેવા: મહાનગર પાલિકાનાં મુખ્ય હેલ્થ અધિકારી આ સેવાનાં વડા છે. યુદ્ધ કે આપદાથી થયેલ જનસંહારમાં લોકો, પશુ, પક્ષીઓનાં મૃતદેહોનો નિકાલ કરવાની જવાબદારી આ સેવા હસ્તક રહે છે. માર્યા ગયેલા લાકોનાં મૃતદેહોની તેમની આસ્થા મુજબ અંતિમવિધિ કરાવવાનું રહે છે, તેમજ પશુ-પક્ષીઓનાં મૃતદેહોનો નિકાલ નિયત સમયમાં કરવાનો રહે છે. જો આ મૃતદેહોનું સમયસર નિકાલ ન થાય તો રોગચાળો ફેલાઈ શકે છે. મૃતદેહોને અંતિમ સંસ્કાર કરતા પહેલાં તેની ઓળખ-પોષ્ટમોર્ટમ સહિતની કાયદાકીય પ્રકીયાને અનુસરવી પડે છે.							
ક્રમ નં.	Corpse Disposal Service માટેના જિલ્લા કક્ષાના નોંડલ અધિકારીશ્રી	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)					

૧	(૧) ડૉ. ધારીતીબેન પરમાર, CDMOશ્રી સુરત મહાનગરપાલીકા, સુરત મો.98258 94058 ms.health surat, ms.health.surat2@gmail.co m	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષિણ) શ્રી વી.જે.ભડારી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાર્થી તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ.શ્રી જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી ક્રીશિક જાદવ મો.75670 11470
૨	(૨) ડૉ.અનીલભાઈ પટેલ, CDMOશ્રી સુરત મો.97277 09501, cdho.health.surat6@gmail.co m	(૪)ડૉ.જયેશ પટેલ, સીનિયર RMOશ્રી, સ્પીમેર મેડીકલ કોલેજ, સુરત મો.98256 00848	(૪)ડૉ.જયેશ પટેલ, સીનિયર RMOશ્રી, સ્પીમેર મેડીકલ કોલેજ, સુરત મો.98256 00848	(૩)ડૉ.દિનેશભાઈ વસાવા DTOશ્રી, સુરત મો.97277 09618 dtogusrt@gmail.com	(૩)ડૉ.સુજાતભાઈ પરમાર ADMOશ્રી, સુરત મો.97277 09504 adhho.health.surat@gmail.co m	(૩)ડૉ.પીપુષભાઈ શાહ, RCHO શ્રી, સુરત મો.97277 09506, rcho.health.surat@gmail.co m	(૩) ડૉ.દિનેશભાઈ વસાવા, DTOશ્રી, સુરત મો.97277 09618, dtogusrt@gmail.com

(૧૧) પુરવઠા સેવા:

કહેવાય છે કે દુશ્મનને પરાજીત કરવો હોય તો તેને મળતે પુરવઠો કાપી નાંખો. પ્રાચિન કાળમાં રાજાઓ કોઈ પ્રદેશ ઉપર આક્રમણ કરતા ત્યારેતેને ચારેદિશાએથી ઘેરી વળતા હતા, જેથી તેનો પુરવઠો ખુદી પડે અને દુશ્મન રાજ્યમાં અરાજકતા ફેલાય. આ સેવા દ્વારા કલેક્ટરી સમયે ખાદ્ય સામગ્રી, પાણી, ઔષધ, કપડા સહિતની જીવન જરૂરી ચીજવસ્તુઓ, રેસ્ક્યુ કે રાહત સામગ્રી એકઠી કરવા, સંગ્રહ કરવા તેમજ નાગરિકો સુધી સમયસર વિતરણ કરવાની કામગીરી થતી હોય છે. આ સેવાનાં વડા જીલ્લા પુરવઠા અધિકારીશ્રી છે.

ક્રમ નં.	Supply Service માટેના જિલ્લા કક્ષાના નોંડલ અધિકારીશ્રી	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)					
૧	શ્રી દર્શન શાહ જિલ્લા પુરવઠા અધિકારીશ્રી, સુરત મો.81303 93783	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષિણ) શ્રી વી.જે.ભડારી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાર્થી તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ.શ્રી જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી ક્રીશિક જાદવ મો.75670 11470
૨	શ્રી નરેશ પટેલ, જિલ્લા પુરવઠા મામલતદાર, જિ.સુરત, મો.63599 46348	શ્રી શ્રી એમ. પી. પટેલ મામલતદારશ્રી, અડાજણ, જિ.સુરત, મો.89800 35030	શ્રી પી.બી. મોદી મામલતદારશ્રી, મજુરા, જિ.સુરત, મો.98249 69298	શ્રી શ્રીહસમુખભાઈ ડી. ચૌપડા, મામલતદારશ્રી, ઓલપાડ જિ.સુરત, મો.98251 85543	શ્રી (H/C) મામલતદારશ્રી, બારડોલી, જિ.સુરત, મો.	શ્રી આર.એસ.હાસેર, મામલતદારશ્રી, કામરેજ, જિ.સુરત, મો.99984 23440	શ્રી જે.આર. મિસ્ત્રી, મામલતદારશ્રી, માંડવી, જિ.સુરત, મો.99784 11167
૩		શ્રી શ્રી કે.જે નાયક મામલતદારશ્રી અબામા, જિ.સુરત, મો.76239 25525	શ્રી એસ. સી. વાણિયા મામલતદારશ્રી, પુણા, જિ.સુરત, મો.95868 69733	શ્રી શ્રી એન.એસ. પારિતોષ, મામલતદારશ્રી, ચોર્યાસી, જિ.સુરત, મો.83689 76902	શ્રી (H/C) મામલતદારશ્રી, મહુવા, જિ.સુરત, મો.	શ્રી મુકેશભાઈ વી. પટેલ મામલતદારશ્રી, પલસાણા, જિ.સુ રત, મો.98793 93186	શ્રી એ. વી. ચાવડા મામલતદારશ્રી, માંગરોળ, જિ.સુરત, મો.99784 45941
૪		શ્રી શ્રી ડી.વી ગામીત મામલતદારશ્રી, કતારગામ, જિ.સુરત, મો.81412 50313	શ્રી એ. આર. નાયક મામલતદારશ્રી, પુણા, જિ.સુરત, મો.99784 10601				શ્રી આર.જી. ચૌધરી મામલતદારશ્રી, ઉમરપાડા, જિ.સુરત, મો.90998 99778

(૧૨) મિલકત બચાવ સેવા:

પી.ડબલ્યુ. ડી. વિભાગનાં અધિકારી યુદ્ધ તેમજ આપત્તિથી મિલકતોને થયેલ નુકશાનનો સર્વે કરાવી તેની તાકીદે સમારકામ કરાવવાની કલેક્ટરી સમયે બેંક, સરકારી તિજોરી સહિતની જોખમી ઈમારતો બચાવવાની કામગીરી કરે છે. નાગરિક સંરક્ષણમાં જોડાયા બાદ વોર્ડન ઉપરોક્ત બાર સેવાઓમાંથી કોઈપણ સેવામાં તેની આવડત અને કૌશલ્ય મુજબ જોડાઈ શકે છે. જો વોર્ડન શારીરિક રીતે સક્ષમ હોય તેમજ તકનીકી બાબતોથી માહિતગાર હોય તો તે બચાવ દળ યા અગ્નિશમન દળમાં સેવા આપી શકે છે, જો ડોક્ટર કે નર્સ હોય તો આકસ્મિક સેવા દળમાં સેવા આપી શકે છે, જો શિક્ષક કે પ્રાધ્યાપક હોય તો નાગરિક સંરક્ષણની તાલીમ સેવામાં જોડાઈ શકે છે, વાહન હાંકતા આવડતું હોય તો ડેપો અને વાહન વ્યવહાર સેવામાં જોડાઈ શકે છે, જો તે સામાજિક કાર્યકર હોય તો તે કલ્યાણ સેવા પસંદ કરી શકે છે તેમજ રેડીયો કે ટેલીફોન ઓપરેટર હોય તો તે સંદેશ વ્યવહાર સેવામાં સેવા આપી શકે છે.

ક્રમ નં.	Salvage Service માટેના જિલ્લા કક્ષાના નોંડલ અધિકારીશ્રી	ઇન્સીડન્ટ કમાન્ડર અને સબ ડીવીઝનલ મેજિસ્ટ્રેટશ્રી (પ્રાંત વાઈઝ હેડ ક્વાર્ટર સર્વિસ)
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૧	(૧) શ્રી પ્રશાન્ત ચૌધરી કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન રાજ્ય વિભાગ -૧ મો.966207250	(૧) સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી અને નાયબ કલેક્ટરશ્રી, સીટી પ્રાંત (ઉત્તર) શ્રી એન.એસ.સવાણી મો.9724992978	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, સીટી પ્રાંત (દક્ષિણ) શ્રી વી.જે.ભંડારી મો.97256 76767	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, ઓલપાડ પ્રાંત શ્રી પાશ્વે તલસાણીયા મો.90334 63736	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, બારડોલી પ્રાંત સુ.શ્રી જે. એન. પરમાર મો.83470 84272	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, કામરેજ પ્રાંત શ્રી વી. કે. પીપળીયા મો.99048 53252	(૧)સબ ડીવીઝન મેજિસ્ટ્રેટશ્રી, માંડવી પ્રાંત શ્રી કીશિક જાડવ મો.75670 11470
૨	(૨) શ્રી જતીન દેસાઈ સીટી એન્જિનીયરશ્રી, સુરત મહાનગરપાલિકા મો.૯૭૨૪૩ ૪૫૨૧૬	સબચિત ઝોનના કાર્યપાલક ઈજનેરશ્રીઓ	સબચિત ઝોનના કાર્યપાલક ઈજનેરશ્રીઓ	(૬) શ્રી નિલેશ પટેલ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન રાજ્ય વિભાગ -૨ મો.9904179900	(૬) શ્રી કિંતેશ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન પંચાયત મો.989806578	(૬) શ્રી નિલેશ પટેલ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન રાજ્ય વિભાગ -૨ મો.9904179900	(૬) શ્રી કિંતેશ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન પંચાયત મો.989806578
૩	(૩) શ્રી કિંતેશ કાર્યપાલક ઈજનેરશ્રી માર્ગ અને મકાન પંચાયત મો.989806578						

Table 4 Location of Sirens in the District:

Surat Municipal Corporation

Details of location of Siren

S. n.	Operat by Fire Station Name	Zone area	List of location of Siren	Total
1	Muglisara Muglisara Navsari Bazar Navsari Bazar Ghanchi sheri Ghanchi sheri Ghanchi sheri	Central	- Muglisara Fire Station, Surat Municipal corporation, Surat - Old Collector Office, Bahumali building, Nanpura, Surat - Navsari Bazar Fire station, Navsari Bazar Main Road, Surat. - Kadiwala Hospital Rustampura Surat. - Fire station, Ghanchi sheri, Tower road, Surat - Laldarwaja School, Laldarwaja, Surat. - Mahidharpura Police Station, Mahidharpura, Surat.	07
2	Bhestan Bhestan Bhestan Bhestan	Udhna	- Udhna Zone Office Opp: Satya nagar, Udhna, Surat - Bhestan Fire Station, Bhestan, Surat. - Pandesara Health Centre, Pandesara, Surat. - Old Zone Office, Zero road Udhna, Surat.	04
3	Dumbhal Dumbhal Dumbhal Dumbhal Mandarwaja Mandarwaja	Limbayat	- New Limbayat Zone Office, Surat. - Dumbhal Fire station, Dumbhal, Surat. - School No.-260, Acharya Parahat Keshav Primary School, Old Zone Office, Limbayat - Maruti Nagar, Kanaiyalal Munshi Primary School No.-225,236, Nr.Limbayate Police Station, Surat. - Mandarwaja Fire Station, Ring road, Surat. - Anjana Farm, Anjana, Surat.	06
4	Majura Majura Majura Majura Majura	Athwa	- Athwa Zone Office, Adarsh Society, Athwalines, Surat. - Umara Pri. School, Umragam, Surat. - Agrasen Bhavan, City Light road, Surat. - Althan Health Centre, Althan, Surat. - Majura Fire Station, near LB Theater, Surat	05
5	Morabhalgal Morabhalgal Morabhalgal Adajan Adajan palanpor palanpor palanpor Adajan	Rander	- Rander Zone Office New Rander Road, Surat - Weir Cum-Causeway, Borwada Rander side, Surat. - Morabhalgal Fire station, Nr Char rasta, surat. - Adajan Pumping Station, City Civic Centre, Surat - Adajan Fire station, Adajan, surat - Krishnakunj School, Near GSNL Office, Adajan, Surat. - L.P Savani, Solid West, Pal, Surat. - Palanpor Fire Station, Surat. - Rander Adajan Health Center, Adajan, Surat.	09
6	Katargam Katargam Katargam Katargam Katargam Kosad	Katargam	- Katargam Zone office Nr Gajera School, Surat - Katargam Fire Station, Katargam, Surat. - Akhandanand School, Ved Road, Surat - Singari-pore gam, Gujarati School, Surat. - Vedgam Pri School, Moti ved Road, Surat. - Kosad Fire station, Surat.	06
7	Kapodra Kapodra Kapodra Kapodra Kapodra Kapodra	Varachha (A)	- Varachha Zone, Balni wadi, Surat. - Varachha, Fire Station, Surat. - Municipal Cor.Suman School, Mohan ni chai, Surat. - Danyabhai School, Karanj, Surat. - School 68, 70, Bombay Market, Umanwada, Surat. - Nana Varachha School, nanavarachha, Surat. - Puna Tekre Falia, Sankait Ward Office, Surat.	07
8	Mota Varachha	Varachha (B)	- Mota varachha Fire Station, Surat.	01

List of trained Civil Defence volunteers

Table 5 List of trained Civil Defence volunteers

નાગરિક સંરક્ષણ દળ, સુરત					
માનદ પદાધિકારીશ્રીઓના નામ/સરનામા/અને મો.નં. ની યાદી					
ક્રમ નં.	નામ	એડ્રેસ	મો.નં.	હોદ્દો	ડિવિઝન
૧	કાનજીભાઈ આર.ભાવાળા	૪૨,ગોકુળધામ સોસાયટી,મોટા વરાછા,સુરત.	૯૯૨૫૧-૩૩૩૬૬	ચીફ વોર્ડન	સુરત શહેર
૨	વિજય અજીતભાઈ છીયા	૧૪,પિકનીક પાર્ક સોસાયટી,રાદેર,સુરત.	૯૯૧૩૪-૩૧૩૫૪	ડે.ચીફ વોર્ડન	
૩	મોહંમદ નવેદ એ.રોખ	૧૨૫૭૮. દોટીવાળા બેકરી પાછળ,નાનપુરા,સુરત	૯૭૨૭૭-૦૦૧૩૬	ડે.ચીફ વોર્ડન	
૪	મેહુલ બી. સોરઠિયા	૧૨,સુરુષિ સોસાયટી,રામ ચોક,સુરત	૯૮૨૫૧-૧૮૧૮૮	ડે.ચીફ વોર્ડન	
૫	જાવમભાઈ વી. મકવાણા	૨૦૦, સહજાનંદ, સોસા., કાપોદ્ધા, સુરત.	૯૮૮૮૧૪૬૨૩૬	ડિવિઝનલ વોર્ડન	કાપોદ્ધા
૬	હિમતભાઈ અજાભાઈ મેટાલીયા	૧૦૨, શ્રીજી નજર સોસા., કાપોદ્ધા, સુરત.	૯૪૨૬૬-૪૮૪૫૫	ડે.ડિવિઝનલ વોર્ડન	
૭	અશોકભાઈ વલ્લભભાઈ મેર	૧૬, મધુવન સોસા., એલ. એચ. રોડ, સુરત.	૯૦૯૯૧-૩૨૮૮૪	સ્ટાફ ઓફિસર	
૮	ડો. મધુકાંત કે. ગોડવીયા	૪૪, ૪૫ રતનજી પાર્ક, એ.કે.રોડ, સુરત.	૯૮૨૫૩-૨૮૮૫૮	ડિવિઝનલ વોર્ડન	
૯	ધનજીભાઈ જી. નસીત	૧, રૂપસાગર સોસા., એ.કે.રોડ, વરાછા, સુરત.	૯૦૯૯૬-૦૩૫૪	ડે.ડિવિઝનલ વોર્ડન	વરાછા
૧૦	નરેન્દ્રભાઈ પરશોતભાઈ બામરોળીયા	૧૦૪, વિક્રી એ.પા., શેતા સોસા., ધરમ નજરોડ, એ.કે.રોડ	૯૯૧૩૦-૭૪૩૨૭	સ્ટાફ ઓફિસર	
૧૧	ધનશ્યામભાઈ વી. નશીત	૧, રૂપસાગર સોસા., વરાછા, સુરત. મો.	૯૮૮૮૧-૦૯૧૨૦	ડિવિઝનલ વોર્ડન	
૧૨	હસમુખભાઈ વી. સાવલિયા	બી/પપ ધરમ નજર સોસા., એ.કે.રોડ, સુરત.	૯૮૨૫૫-૧૧૮૦૭	ડે.ડિવિઝનલ વોર્ડન	
૧૩	હસમુખભાઈ એન. વધાસીયા	૨૪, શારદા વિકાર સોસા., કલપાડા, સુરત.	૯૮૨૫૧-૬૧૯૫૩	સ્ટાફ ઓફિસર	સરથાણા
૧૪	નર્મીનભાઈ પી. ચૌહાણ	૫/ હરિનગર સોસા., ઉમના, સુરત.	૯૯૧૩૫-૧૦૦૧૦	ડિવિઝનલ વોર્ડન	
૧૫	એ.એચ. ખાન	૨૬, અંબર કોલોની, હરિનગર, ઉમના	૯૮૨૫૪-૬૧૪૪૮	ડે.ડિવિઝનલ વોર્ડન	
૧૬	યશ આર. દેસાઈ	૨૬-૨૩૬, સોલ્ય નજર-૨, ઉમના, સુરત	૭૨૦૯૮-૫૧૫૫૫	સ્ટાફ ઓફિસર	

૧૭	અનુલક્ષ્ય જનકરાય યાજ્ઞિક	મુ. પો. સબીયા તળાવ(કચ્છે) તા.ચોર્યાસી જી. સુરત.	૯૫૧૨૬-૮૭૪૯૧	ડિવિઝનલ વોર્ડન	વિભાગ
૧૮	કેસરબલી કે. પીરઝાડા	૧૨,શાસ્ત્રી ચોક ગળી નં.૧, વિભાગ, સુરત.	૯૪૨૬૮-૦૦૫૭૯	ડે.ડિવિઝનલ વોર્ડન	વિભાગ
૧૯	પ્રવિણભાઈ ડી. પાટીલ	૨૩૫,અંબિકા પાર્ક રામીપાર્કનીબાજુમાં ઉમના,સુરત.	૭૯૯૦૨-૧૨૫૯૦	સ્ટાફ ઓફિસર	
૨૦	ભાગવત કુલાબરાવ પાટીલ	૮૬/૮૭ નવાગામ,વિભાગ,સુરત.	૯૮૭૯૩-૦૭૪૯૦	ડિવિઝનલ વોર્ડન	
૨૧	જયબેન પીરજવાલ ભગત	૭૧,સાઈનાથ સોસા.,ન્યુ મોડેલ સ્કૂલ પાસે,ભાલેના રોડ,ઉમના,સુરત.	૯૮૨૫૬-૪૩૫૭૭	ડે.ડિવિઝનલ વોર્ડન	ડિડોલી
૨૨	મુકેશભાઈ ડી. પાટીલ	૨૨૦,નીલકંઠ પાર્ક સોસા.,ડીડોલી,સુરત.	૮૦૦૦૨-૭૦૧૬૨	સ્ટાફ ઓફિસર	
૨૩	મુજીવભાઈ આર. દેસાઈ	સી.૧૧,મહિમા ટાવર,ચાંદની ચોક, પીપલોદ,સુરત.	૯૮૨૫૦-૪૯૦૦૦	ડિવિઝનલ વોર્ડન	
૨૪	મનોજભાઈ જે.કાપડીયા	એપલ અનુપમ રેસી.,આરમ આર્કડની પાછળ,વેસુ,સુરત.	૯૮૨૫૧-૪૫૩૬૦	ડે.ડિવિઝનલ વોર્ડન	ખટોદરા
૨૫	નિતેશ શુપેલ્લ સિંઘ	બી-૩૫૮ પ્રિયંકા ઝીન પાર્ક,ભેસ્તાન,સુરત	૮૯૮૦૬-૦૮૮૬૩	સ્ટાફ ઓફિસર	
૨૬	કલ્પેશભાઈ વ્યવભાઈ બોરડ	૨૦,સંત દેવીદાસ સોસા.,સરથાણા, જકાતનાકા,સુરત.	૯૩૭૫૫-૮૩૬૭૧	ડિવિઝનલ વોર્ડન	
૨૭	દિપકભાઈ રવજીભાઈ જોડીયા	૨૦૨ ઝીતાનગર,વિન્ડ પૂણાગામ, સુરત.	૯૯૨૫૧-૧૩૩૦૯	ડે.ડિવિઝનલ વોર્ડન	પૂણા
૨૮	મનીશભાઈ કાપડીયા	૧૪૯,ચામુંડા નગર સોસા., પૂણા ગામ,સુરત.	૯૮૨૫૨-૨૧૦૧૭	સ્ટાફ ઓફિસર	
૨૯	વામનભાઈ ટી પાસવાલા	૬/૭૫,ગલે મંડી,મેઈન રોડ,સુરત.	૯૮૪૪૫-૨૨૨૨૧	ડિવિઝનલ વોર્ડન	
૩૦	અનિલ દેગરજ	ગલેમંદી,મોટી શેટી,મહિરપુરા,સુરત	૯૮૨૫૫-૫૫૫૨૧	ડે.ડિવિઝનલ વોર્ડન	મહિરપુરા
૩૧	પ્રવિણભાઈ સી.બુટાણી	૬/૨૦૮,૭-૫૦૨,ચોરીરાજ બિલ્ડીંગ રામપુરા,મહિરપુરા,સુરત.	૯૯૭૯૬-૧૮૮૭૧	સ્ટાફ ઓફિસર	
૩૨	હર્ષદભાઈ વી.પટેલ	શ્રી રંગ કુપા સોસા.,ઘોડ રોડ,સુરત.	૯૮૨૫૧-૮૮૯૪૫	ડિવિઝનલ વોર્ડન	
૩૩	ઈશરભાઈ એસ.મુલતાની	૩૧૫૦૦,૧૧૦ માળ,આંબાવાડી,કાલીપુર,સુરત.	૯૨૬૫૩-૧૫૮૨૦	ડે.ડિવિઝનલ વોર્ડન	સલાબતપુરા
૩૪	જગદીશભાઈ એ. રાથા	ઓ/૯,મયુનીશીયલ ટેના.,માનદરવાજા, સુરત.	૯૮૪૪૨-૭૫૬૧૫	સ્ટાફ ઓફિસર	

૩૫	ઉદીતભાઈ જે.જરીવાલા	૭/૩૬૬૫.રામપુરા મેઈન રોડ, ચોક બજાર, સુરત.	૯૯૧૩૮-૬૩૦૬૮	ડિવિઝનલ વોર્ડન	ચોક બજાર
૩૬	સરફરાઝહુસેન એસ.જરદોશ	૭/૧૬૯૦. આર કે.મંઝીલ સૈયદપુરા, ટૂંકી, સુરત.	૯૩૭૪૭-૨૭૪૬૧	ડે.ડિવિઝનલ વોર્ડન	
૩૭	ખાલી જગ્યા	-		સ્ટાફ ઓફિસર	
૩૮	સત્ય અશ્વિનભાઈ ઠવે	૫/૫૦૧ મોસદીયા શેરી, હટીપુરા, સુરત.	૯૩૭૬૩-૦૯૯૦૦	ડિવિઝનલ વોર્ડન	
૩૯	જાગૃત રસીકલાલ આચાર્ય	૭/૪૧૫૫ સુથાર ફળીયા, મહિયપુરા, સુરત.	૯૩૭૬૯-૦૬૩૦૦	ડે.ડિવિઝનલ વોર્ડન	
૪૦	મો.યુસુફ તુવામરસુલ મુલતાની	૧૨/૬૪૪, રાણી તળાવ, કાસડીવાડ, સુરત.	૯૮૭૯૧-૪૨૦૯૧	સ્ટાફ ઓફિસર	વાલચેટ
૪૧	વિજયભાઈ સનાભાઈ પટેલ	૮, જવારામ નગર, કતારગામ મેઈન રોડ, સુરત.	૯૮૨૪૦-૯૪૪૪૯	ડિવિઝનલ વોર્ડન	
૪૨	નયનાબેન વી.શાહ	૨, વિકાસ એપા., વિક્રુલવાડી, નાણાવટ, સુરત.	૯૦૧૬૭-૫૫૭૦૬	ડે.ડિવિઝનલ વોર્ડન	કતારગામ
૪૩	ચંદ્રકાંત સુરેશભાઈ શિરસાગર	શિરસાગર ચંદ્રકાંત સુરેશભાઈ ૧૨૧, શ્રીરામનગર, પડિસરા, સુરત.	૯૯૭૯૨-૦૨૫૫૫	સ્ટાફ ઓફિસર	
૪૪	અભ્યેશભાઈ વી.જળોદરા	બી/૨૬ આશાપુરી સોસા., વરાછા, સુરત.	૯૯૨૪૭-૮૧૨૮૪	ડિવિઝનલ વોર્ડન	
	ત્રણપતભાઈ એન.પટેલ	૧૧, હરિનગરસોસા., કતારગામ, સુરત.	૯૮૨૫૧-૪૧૨૨૭	ડે.ડિવિઝનલ વોર્ડન	સિંગણપોર
૪૬	શૈબ ઝાહીદ શાબીર	૪૧૨૦૯, યોડીયા ફર્ષ બેંગમપુરા, સુરત	૯૮૭૯૧-૩૯૯૨૦	સ્ટાફ ઓફિસર	
૪૭	ખાલી જગ્યા	-		ડિવિઝનલ વોર્ડન	
૪૮	મહેશભાઈ જોગાસી	વાલભાઈ કોમ્પલેક્સ, પારસી વાયબ્રેટી સામે, નાનપુરા	૯૮૨૪૧-૨૨૫૨૦	ડે.ડિવિઝનલ વોર્ડન	અહવા
૪૯	રાજન એન.નેહવાની	તારાસમુતિ એપા., ગાંધીસ્મૃતિ વનની સામે, નાનપુરા, સુરત.	૯૮૨૫૯-૪૫૮૦૬	સ્ટાફ ઓફિસર	
૫૦	ખાલી જગ્યા	-	-	ડિવિઝનલ વોર્ડન	
૫૧	જીએશભાઈ હંસરાજભાઈ પટેલ	૧૫, રાધે નગર સોસાયટી, છછનાથ, ઉમરા	૯૮૨૫૪-૮૧૮૧૮	ડે.ડિવિઝનલ વોર્ડન	ઉમરા
૫૨	વિકાસ કે.ઠક્કર	સીજ સ્વામી સોસા., વિવાળીબાગ, અહવાવાઈન્સ, સુરત.	૯૮૨૫૦-૬૪૯૪૯	સ્ટાફ ઓફિસર	

૫૩	જયકાંત રજનીકાંત રાવલ	૫૦, પંચોલી સોસા., શોડરોડ રોડ, સુરત.	૯૨૨૭૯-૭૯૬૪૬	ડિવિઝનલ વોર્ડન	ક્રમસ
૫૪	કુર્તબેન મેહતા	સ્તાવન બંગલો, પાર્વે પોર્ટન્ટ, સુરત.	૯૩૭૪૮-૮૮૭૪૦	ડે.ડિવિઝનલ વોર્ડન	
૫૫	દેવાંચભાઈ જી. દેસાઈ	એ/પ, આનંદો એપા., વાડીયા વિમેન્સ કોલેજની બાજુમાં, સુરત.	૯૮૨૫૪-૦૭૮૪૨	સ્ટાફ ઓફિસર	સચીન
૫૬	મનોહરલાલ ડી. નંદવાણી	૫૭/૫૮ સુમંગલ સોસા., ભટાર રોડ, સુરત	૯૯૭૪૪-૪૧૧૭૭	ડિવિઝનલ વોર્ડન	
૫૭	દિપકભાઈ પોપટભાઈ સોજીત્રા	શિવ મહાદેવ દર્શન મહાવીર સોસા., સચીન, સુરત.	૯૯૭૯૬-૧૯૧૭૮	ડે.ડિવિઝનલ વોર્ડન	
૫૮	અનુપ વિશ્વનાથ પાંડે	૧૪, વિષ્ણુ નગર, પારડીવામ, સચીન, સુરત.	૯૭૨૫૮-૫૪૩૦૮	સ્ટાફ ઓફિસર	
૫૯	શંભુપ્રસાદ આર. મલીક	૨૨૯૮, શિવ શક્તિ નગર, ગુ.હા.બોર્ડ, કનકપૂર, સચીન, સુરત.	૭૮૭૪૦-૦૦૭૧૭	ડિવિઝનલ વોર્ડન	સચીન GIDC
૬૦	શિવશંકર હીરાલાલ માળી	૧૫૫૭, આદર્શ નગર સોસા., ગુ.હા.બોર્ડ, સચીન, સુરત.	૭૦૧૬૪-૩૦૨૩૭	ડે.ડિવિઝનલ વોર્ડન	
૬૧	સુનીલભાઈ જી. ઠાકરે	૧૩૭૭, આશાપુરી સોસા., ગુ.હા.બોર્ડ, કનકપૂર, સચીન, સુરત	૮૦૦૦૦-૧૦૮૪૮	સ્ટાફ ઓફિસર	પાંડેસરા
૬૨	વસંતભાઈ ટી. ચંદ્રકર	૧૬૫ કર્મચોની સોસા., વી-૩ બમરોલી રોડ, પાંડેસરા, સુરત.	૮૪૬૦૧-૦૭૨૦૭	ડિવિઝનલ વોર્ડન	
૬૩	આદિશ એ. સાબળે	૬૪૫ ન્યુ સુદા એસ.એમ.સી. આવાસ, બાટલી બોય, સુરત.	૮૪૬૦૫-૪૬૦૦૫	ડે.ડિવિઝનલ વોર્ડન	ઈચ્છાપોર
૬૪	હિતેન્દ્ર સી. લિંબાયીયા	૧૧૧, ચીપાલ નગર, સોસા. બમરોલી રોડ, પાંડેસરા, સુરત.	૯૯૦૮૪-૦૩૪૫૯	સ્ટાફ ઓફિસર	
૬૫	જય વિજય ઠક્કર	૩૮, કિરણ દીપ સોસા., પાર્વે પોર્ટન્ટ, સુરત.	૯૨૨૭૧-૮૩૭૫૫	ડિવિઝનલ વોર્ડન	હજીરા
૬૬	ખાલી જગ્યા	-	-	ડે.ડિવિઝનલ વોર્ડન	
૬૭	મનોજભાઈ આર. દેવીપુજક	૧૯૪ મહાદેવ નગર, ગોડાદરા, સુરત.	૯૯૧૩૧-૬૫૫૫૮	સ્ટાફ ઓફિસર	હજીરા
૬૮	પરેશ એમ. વાઘીયા	એ/૧૬, સરિતા સોસા., ચીફવાડી વરાછા, સુરત.	૯૮૨૫૭-૭૦૯૭૫	ડિવિઝનલ વોર્ડન	
૬૯	ભદ્રેશભાઈ ટી. સોપારીવાલા	૮/૭૪૩, બી-૧ ચોથો માળે, ચાલ્લા વાળ, ચીપીપુરા, સુરત.	૯૮૭૯૧-૩૬૦૫૯	ડે.ડિવિઝનલ વોર્ડન	
૭૦	જલ્પાબેન એ. ગાંધી	૮૫ હિંદાગત નગર, પાલનપુર, રાંદેર, સુરત.	૯૯૯૮૯-૧૭૫૫૧	સ્ટાફ ઓફિસર	

૭૧	ખાલી જગ્યા	-	-	ડિવિઝનલ વોર્ડન	મરીન
૭૨	ખાલી જગ્યા	-	-	ડે.ડિવિઝનલ વોર્ડન	
૭૩	ખાલી જગ્યા	-	-	સ્ટાફ ઓફિસર	
૭૪	પ્રકાશકુમાર બી.વેકરીયા	૭, સાગર રો. હાઉસ, માસ્તી ચોક, વરાછા, સુરત.	૯૮૨૫૬-૪૦૯૬૬	ડિવિઝનલ વોર્ડન	અમરોલી
૭૫	આશિષકુમાર મનસુખભાઈ વાડોદરીયા	સી-૩૦૪, પંચવટી એપા., ઉમિયાધામ રોડ, વરાછા, સુરત.	૮૮૬૬૩-૮૯૧૨	ડે.ડિવિઝનલ વોર્ડન	
૭૬	વિરલકુમાર આર.વ્યાસ	એ-૨૨૦૪ ચારલુજા આર્કેડ, ન્યુ કોસાડ રોડ, કોસાડ રોડ, સુરત.	૯૯૭૯૪-૬૪૨૩૫	સ્ટાફ ઓફિસર	
૭૭	મો. અમીન એમ. નાથાણી	સી-૧૦, ૩/૧૦૪ અવનુરે રેસી. ન્યુ રોડ, અડાજણ, સુરત.	૯૮૨૫૬-૦૬૯૬૨	ડિવિઝનલ વોર્ડન	રોદર
૭૮	કિશનલાલ દલાલ	બી/૩૦૧ યોન્મીયોડ, અડાજણ, સુરત.	૯૮૨૫૪-૨૪૩૬૨	ડે.ડિવિઝનલ વોર્ડન	
૭૯	ખાલી જગ્યા	-	-	સ્ટાફ ઓફિસર	
૮૦	બાકુલભાઈ અનિલભાઈ પટેલ	૨, માધવવિલા રો. હાઉસ, ન્યુ સીટી વાઈટ રોડ, સુરત.	૯૮૨૫૦-૮૩૮૪૮	ડિવિઝનલ વોર્ડન	અડાજણ
૮૧	ખાલી જગ્યા	-	-	ડે.ડિવિઝનલ વોર્ડન	
૮૨	રીકીબેન કેનીશભાઈ ભગત	૩૪, મોરાર નગર, અડાજણ, સુરત.	૯૭૩૭૩-૧૫૯૫૫	સ્ટાફ ઓફિસર	
૮૩	નેહાબેન અતુલભાઈ દોશી	એ/૨, ૧૦૦૫ અક્ષર પ્લાઝા, સરીતા સાગર સંકુલ, અડાજણ, સુરત.	૯૩૭૭૧-૩૩૬૩૯	ડિવિઝનલ વોર્ડન	જહાંગીરપુરા
૮૪	રજનીકાંત બિસ્મીલ્લા	૨/૨૦૨ હેલવ એપા., રોદર રોડ, સુરત	૯૮૨૫૩-૯૯૫૫૭	ડે.ડિવિઝનલ વોર્ડન	
૮૫	ચિરાગ એન. પટેલ	૨૫૨, આર્શિવાદ, ટાઉનશીપ, વામરોલી રોડ, સુરત.	૬૩૫૩૯-૯૧૦૪૮	સ્ટાફ ઓફિસર	

A N N E X U R E

13 Annexures

13.1 Annexure: 1 Profile of Surat District

Introduction

The city of Surat is situated on the bank of river Tapi in the West Indian state of Gujarat. The city extends from latitude 21°15' in the North to longitude 72°52' in the East. It occupies a pivotal position on the Ahmedabad-Mumbai corridor and is well connected by railway.

Surat is a district in the state of Gujarat with Surat city as the administrative headquarters of this district. It is surrounded by Bharuch, Narmada (North), Navsari and Dang (South) districts. Surat is located in Gujarat on the west coast of India. To the west of the city is the Gulf of Cambay. It is the second-most advanced district in Gujarat. It had a population of 49,95,174 of which 59.97% were urban as of 2001. On 2nd October 2007 Surat district is parted in to two by forming of Tapi district under the Surat district re-organisation act 2007. According to Census of India 2011 Surat had population of 60,81,322. 79.74 % of its total population was urban as of census 2011.

Administrative Set up:

Surat district consists of 11 Talukas under 5 sub-divisions. Surat City is district head quarter. Surat is having Urban Local Bodies namely Surat Municipal Corporation, Bardoli Nagarpalika (Bardoli), Kadodara Nagarpalika, Mandvi Nagarpalika (Mandvi), Tarsadi Nagarpalika (Mangrol) Surat has also an Urban Development Authority, namely SUDA i.e Surat Urban Development Authority and BUDA- Bardoli Urban Development Authority.

CLIMATE

The climate of Surat is mild due to its nearness to the Arabia Sea. There is not much change in the winter and summer temperature, which ranges between 10°C to 42°C. Although one can visit Surat in any season, the best time to do so would be between October and March. Average rainfall of last 1 years in Surat district is 1453.01 mm and last season average rainfall was 1448.60 mm.

13.2 Annexure: 2 Taluka wise Rainfall Data(in mm) of Surat District (Year 2015 to Year 2025)

Year Taluka	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average
Bardoli	864	876	934	1504	1567	2089	1552	2013	688	2231		1548
Choryasi	1111	1231	1479	1258	1562	2063	1217	1653	933	1078		1373
Kamrej	959	830	1115	1118	1593	2272	1465	1580	1993	2304		1447
Mahuva	842	1075	1146	1560	2019	1945	1618	2223	1516	2504		1673
Mandvi	689	945	1292	1130	1949	2090	911	1553	1213	1580		1366
Mangrol	1207	1551	1987	1645	3027	2330	1351	1695	1235	1942		1768
Olpad	728	729	883	885	1655	1252	1132	1141	1079	1667		1080
Palsana	838	1106	1135	1192	1779	1880	1899	2390	1766	2840		1694
Umarpada	1542	1547	1952	1293	3957	3890	1752	3106	1811	3722		2495
Surat City	1111	961	1329	1484	1837	2272	1589	1564	1782	2122		1535
Total	9891	10851	13252	13069	20945	22083	14486	18918	14016	21990		--
District Average	989	1085	1325	1306	2094	2208	1448	1891	1401	2199		1598

13.3 Annexure: 3 Flood History in Surat

Sr No	Year	Date & Month	Max. Level at Nehru Bridge (Feet)	Max. Level at Kakrapar Weir (Feet)	Discharge from Kakrapar (in Lac Cusec)
1	1954	-	96.50	172.80	7.04
2	1958	2 nd September	97.00	173.00	7.40
3	1959	17 th September	101.75	179.20	12.94

4	1968	6 th August	103.50	187.50	15.60
5	1969	8 th September	95.75	174.30	8.56
6	1970	6 th September	100.00	181.00	13.00
7	1978	31 st August	8.59 mtr	-	-
8	1979	12 th August	8.22 mtr	-	-
9	1990	25 th September	94.20	174.80	3.70
10	1994	8 th September	97.64	175.80	5.25
11	1998	16 th September	101.30	178.00	6.73
12	2002	7 th September	8.10 mtr	172.30	3.30
13	2006	9 th August	12.50 mtr	182.70	9.10
14	2013	25 th September	9.60 mtr	176.00	4.36
15	2014	8 th September	4.70 mtr	170	2.17
16	2019	10 th August	--	169.40	1.958
17	2020	21 st August	9.25 m(Cause-way)		

13.3.1 Details of Tapi Basin

Sr No	Name of Gauge Station	Danger Level)		Warning Level	
		In Meter	In Feet	In Meter	In Feet
1	Ukai	105.15	345.00	103.32	339.00
2	Kakrapar	53.66	176.05	53.15	174.33
3	Surat Nehru Bridge	9.50	31.16	8.50	27.88

13.3.2 Maximum Discharge Capacity and Spillway of the schemes

No	Scheme	Type	FRL Meter	Crest Level	Spill Way (Meter)	Details of Gates	Max. Discharge (Cum)
1	Ukai	Gated	105.15	91.23	425.00	22 15.54 X 14.78	49490
2	Kakrapar	Un Gated	48.77	-	613.38	-	1083
3	Doswada	Un Gated	123.44	-	207.00	-	899

4	Ver – 2	Gated	115.80	109.75	30.00	8 9.10 X 6.10	2155
5	Lakhigam	Un Gated	74.10	-	25.00	-	434

13.4 Annexure: 4 List of vulnerable talukas and villages with risk ranking

List of villages likely to be affected by floods in Tapi River on the basis of Gauge & Discharge at Kakrapar weir site, Surat				
SR NO.	CHORYASI & Surat City TALUKA	MANDVI TALUKA	KAMREJ TALUKA	BARDOLI TALUKA
1	Magdalla	Kakrapar	Kamrej	Miyawadi
2	Nana varachha	Tarsada	Kholwad	Kadod
3	Katargam	Var jakham	Kholeswar	Uchhare
4	Gavier	Mandvi	Timba	Nasura
5	Surat city	Khedapur	Kathor	Haripara
6	Dabholi	Patha	Choryasi	Zarimora
7	Piplod	Vashigam	Antroli	Vadhvania
8	Umra	Vaghacha	Tharoli	Samthari
9	Tunki	Varoli	Varadi	
10	Kathodra	Moticher	Bhadad	
11	Singapur	Pipaltha	Valst	
12	Ved	Kakadawa	Sarthana	
13	Vesu	Kosamdi	Laskana	
14	Abhava	Piparia	Velanja	
15	Majura	Govachhi	Sarasana	
16	Anjana	Rupen	Ankhakhhol	
17	Parwat	Thutwati	Gior	
18	Samdod	Bothan	Karjan	
19	Magob	Zankhia	Bherav	
20	Fulpada	Nani cher	Amboli	
21	Athwa	Ratania	Ambharama	
22	Jhangirpura	Umarsadi	Navipardi	
23	Adajan	Vareli	Abrama	
24	Bairav	Kamalapur	Derod	
25	Bhatar	Vareth	Ghala	
26	Bamroli	Rajwad	Dhoranpardi	
27	Khajod	Kharoli	Dungra	
28	Bhimrod	Unn	Dhatva	
29	Udhana	Virpor	Machhi	
30	Simada	Vankla	Nansad	

31	Kumbharia	Roswad	Dewali	
32	Karanj	Khanjroli	Sampura	
33	Dumas	Khaler	Ghaduli	
34	Sarasana	Kosdi	Limodera	
35	Kawas	Godawadi	Pasodra	
36	Bhatha	Una	Navagam	
37	Palanpur	Vaghneria	Timba	
38	Bharthana	Varethi	Kathodra	
39	Kosad	Vadi	Koli bharthana	
40	Mora	Vadod	Netrang	
41	Mota varachha	Nogama		
42	Amroli	Kevadia		
43	Utran	Veghi		
44	Vanta	Naren		
45	Rundh	Kharoli		
46	Bharthana(vesu)	Nandapur		
47	Althan	Andhatri		
48	Navagam	Uncha mala		
49	Puna	Bed kuva		
50	Saroli			
51	Ichhapur			
52	Rander			
53	Sarsana			
54	Pardesara			
55	Kosamba			
56	Govalak			
57	Pal			
58	Chhaaprabhatha			
59	Bharthana (kosad)			
60	Malgama			
61	Limla township			
62	Bhesan			
63	Vansava			
64	Bhatalai			
65	Damka			
66	Mora			
67	Suwali			
68	Bhatpor			
69	Abhava			
70	Limbayat			
71	Parvat			
72	Sanla hemad			
73	Sarasana			
74	Pandesara			

75	Kosamba			
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Flood:

Choryasi taluka passes Tapi and mindhola Rivers. It creates the flood. The detail is shown below.

River Name	Affected Village	Total Population	Vulnerable Population	Animal Population	Residental Place	Capacity Of Relief Area
1.Tapi	Kavas	6500	1600	412	Pri.Comm. Hall	1600
	Limla	6612	0	0		
	Malgama	960	200	489	Pri.Comm. Hall/ Temple	200
	Bharthana Kosad	7171	500	616	Pri.School	500
	Bhesan	2195	200	1139	Pri.School	200
	Bhatha	5122	100	1286	Pri.School	100
	Bhatpor	3449	2800	458	Pri.Comm. Hall	2800
	Ichhapor	12097	2500	862	Pri.School	2500
	Saniyahemad	3964	100	748	Pri.Comm. Hall	300
	Kumbharia	5850	250	411	Pri.School	300
	Saroli	3268	200	200	Pri.Comm. Hall	300
2.Mindhola	Samrod	1060	0	310	Pri.School	1100
	Kachholi	2149	300	479	Pri.School	300
	Lajpor	7920	300	1157	Pri.School	300
	Popada	1070	150	436	Pri.Comm. Hall	200

Olpad:

River Name	Affectad Village	Total Population	Affected Population	Animal Population	Residental Place	Capacity Of Relif Area
1. Sena Khadi (Kim River)	Kadrama	1811		1128	Takrama High School	914
	Umarchha					
	Vadoli					
	Kim					
	Kimamli					
	Kadodra					
	Anita					
	Bolav					

	Sayan		1710	974	Sayan High School	1771
	Saroli		115	856	Talad High School	615
	Kosam		381	482	Talad High School	615
2. Tena Khadi (Tapi River)	Pinjrat	5173				
	Tena	1119				
	Barbodhan	2496				
	Tunda	595				
	Dabhari	535				
	Aadmor	1076				
	Lavachha	2218				
	Bhadut	1191				
	Kudiyana	1740				
	Hathisa	473				

Kamrej:

River Name	Affected Village	Total Population	Vulnerable Population	Animal Population	Evacuation Centre	Capacity Of Relif Centre	Highest Flood Level
1.Tapi	Kamrej	11329	6500	2218	Primary School	900-1200	5 TO 19
	Bhairav	1004	820	192	Kalbhairav Temple	100-400	14 TO 19
	Derod	1666	1400	425	Primary School	500	5 TO 12
	Kholvad	10687	3530	1157	High School	350-900	3 TO 17
	Kathor	13258	10000	538	High School	400-600	3 TO 10
	Choryasi	1143	600	1215	Primary School	300	3 TO 10
	Aamboli	4186	2000	718	Primary School	300	3 TO 5
	Dhala	4713		1569	High School	500-1200	7 TO 9
	Karjan	2529	420	1089	Primary School	200	3 TO 5
	Dhoran Pard	2803	450	259	Primary School	400	3 TO 5
	Navi Pardi	3961	600	1804	Primary School	600	2 TO 4
	Kholeswar	1474	350	387	Primary School	250	2 TO 5
	Dungra	2744	500	514	Primary School	400	2 TO 8
	Dhatva	1382	400	321	Primary School	200	2 TO 5
	Machhi	462	150	218	Primary School	150	2 TO 6
	Timba	2418	500	1052	Primary School	500	4 TO 6
	Antroli	1088	400	319	Primary School	400	4 TO 7
	Tharoli	186	110	69	Community Hall	100	4 TO 9

	Velanja	2804	800	400	Primary School	400	3 TO 6
	Abrama	3041	1860	700	Dharamsala	700-300	5 TO 8
	Bhada	1842	1000	300	Primary School	300	2 TO 5
	Valak	1644	850	200	Primary School	200	4 TO 6
	Laskana	8452	2459	500	Public Temple	500-700	6 TO 10
	Aakhakhhol	541	419	350	Zoo	350	3 TO 5
	Jiyor	204	175	150	Community Hall	100-150	4 TO 6
	Shampura	3560	970	100	Primary School	100-200	2 TO 4
	Dethli	267	115	100	Primary School	100	3 TO 5

Bardoli:

River Name	Affected Village	Total Population	Vulnerable Population	Animal Population	Evacuation Centre	Capacity Of Relief Centre
1.Tapi	Kadod	11442	11401	545	Kadod School	3000
	Haripura	1741	1714	345	Primary School	300
	Vaghecha	1100	897	690	Vageshwar Temple	250
	Madhi	7240	3100	1277	Primary & Tech.School	400
	Surali	10724	9286	11618	Primary School	2300
	Karchka	1162	1033	252	Primary School	300
	Ten	4613		1217	Suruchi Printing School	350
	Kharad	72	9	241	Primary School	
	Chhitra	411		156	Primary School	

Mandvi:

Sr. No.	River Name	Affected Villages		Total Population	Danger Level
1	2	3		4	5
1	Tapi	1	Balaltirth	232	346 ft
		2	Kakrapar	2441	
		3	Wareth	2212	
		4	Nanicher	1479	
		5	Moticher	2278	
		6	Rataniya	2579	
		7	Tarsadabar	1465	
		8	Mandvi	18214	

		9	Waghnera	466	
		10	Ushkerkhurd	516	
		11	Puna	1743	
		12	Kaakadva	815	
		13	Khedpur	954	
		14	Warjakhan	1614	
		15	Jaakhla	780	
		16	Kosadi	1411	
		17	Unn	1265	
		18	Umarsadi	1066	
		19	Kamlapor	1485	
		20	Pipariya	764	
		21	Patana	344	
		22	Wareli	1101	
		23	Boudhan	5729	
2	Vareh	1	Picharwan	344	115.80 mtr
		2	Aamli	653	
		3	Soli	392	
		4	Devgadh- Andharwadi	2470	
		5	Maldha	1586	
		6	Kim Dungra	1083	
		7	Fulwadi	1519	
		8	Godadha	1962	
		9	Moritha	1809	
		10	Salaiya	1724	
		11	Valargadh	460	
		12	Amalsadi	2775	
		13	Karvali	1514	
		14	Godsamba	1382	
		15	Bori	1053	
		16	Nandpor	1157	
		17	Kharoli	1928	

		18	Godawadi	3915	
		19	Gawachhi	1811	
		20	Wareli	1101	
		21	Pimpariya	764	

Mahuva:

River Name	Affectad Village	Total Population	Affected Population	Animal Population	Relief Centre	Capacity Of Relief Centre
1.Purna	Mahuva	4924	565	1489	G.H.Bhakt	700
	Ratan	1031	565	286	Pri.School Odach	300
	Odach	2326	325	557	Pri.School Ratan	350
	Amroli	460	110	110	Pri.School Amroli	200
	Aamchak	1213	250	250	Pri.School Aamchak	300
	Kavitha	1024	250	250	Pri.School Kavitha	300
	Sevasan	230	50	56	Pri.School Sevasan	150
	Vadiya	1170	155	574	Pri.School Vadiya	150
	Miyapur	1040	215	541	Pri.School Miyapur	200
	Sekhpur	3998	225	1563	Pri.School Sekhpur	300
	Budhleshwar	566	55	143	Pri.School Budhleshwar	200
	Umra	4810	2100	2264	Pri.School Umra	2000
	Haldava	2764	550	1179	Pri.School Haldava	600
	Mahuvaliya	4747	550	2939	Pri.School Mahuvaliya	600
	Vaheval	6476	110	2090	Pri.School Vaheval	300
2.Ambika	Valvada	4462	550	2508	Pri.School Valvada	600
	Kankariya	1136	500	624	Pri.School Kankariya	600
	Samba	2129	540	898	Pri.School Samba	600
	Bhoriya	1722	250	858	Pri.School Bhoriya	300
	Velanpur	2689	110	996	Pri.School Velanpur	300

Palsana:

River Name	Affected Villages	Total Population	Affected Population	Animal Population	Relief Centre	CAPACITY OF RELIEF CENTRE
1.Mindhola	Kanav	1609	50	430	Pri.School Prin.	200
	Malekpor	2531	22	957	Pri.School Prin.9998927960	200
	Amalsadi	1610	300	468	Pri.School Prin.9909196911	350
					Utt.Buni.School	250

	Makhiga	874			Pri.School Prin. 9601674776	200
	Vanzodia	1176		248	Pri.School Prin.9909681914	400

Mangrol:

River	Village	Population	Affected	Animal	Relief	Capacity
			Population		Centre	
Kim		2322	85	945	Primary School	110
	Luvara					
	Kantva	2246	30	850		70
	Vansoli	839	25	320		40
	Sava	774	25	470		50
	Velachha	2138	45	925		100
	Kathwada	1040	45	435		70
	Hathoda	3735	45	1200		100
	Mota Borsara	1871	45	831		100
	Vasesa	568	45	265		60
	Moti Naroli	1060	45	730		60
	Palod	2558	45	630		70
	Kothva	1478	45	30		70
	Shethi	791	45	475		70
	Panetha	584	45	275		60
	Siyalaj	1711	45	885		100
	Kosadi	3328	135	715		200
	Simodara	1676	75	665		120
	Vadoli	732	45	400		70
	Asarama	941	45	415		100
	Ranakpore	1004	45	395		100
	Limbada	2434	85	815		100
	Mangrol	5354	65	845		100
	Amandera	900	45	325		60
	Gijaram	1814	65	645		80
	Ankdod	1355	40	400		70
Bhukhi	Vankal	5629	45	1245		100

Umarpada:

River	Affected Villages	Total Population
	Aamlidabda Wahar	1529
	Pada	1448
	Maandan	528

	Nasharpur	586
	Umarkhadi	4311
	Umarpada	1399
	Uchwaan	2300
	Kevdi	2642
	Sharda	1583
	Velavi	1090
	Nanasutkhadka	1393
	Wadpada	816
	Bardipada	1025
	Sevlaan	677
	Chakraa	1028

**13.5 Annexure 5 List of villages likely to be affected by floods in the basin
of Gauge and Discharge at Kakrapar Weir Site, Surat.**

**NOTE:- WHITE SIGNALS :ALERT
BLUE SIGNALS : READY FOR EVACUATION
RED SIGNALS : IMMEDIATE EVACUATION**

Sr No	Discharge At Kakrapar weir in (CUS/CUM)	Gaug e level at kakra par weir in feet	Gauge level at kakrapar weir in Meter	Name Of Taluka	Signal for Villages		
					White Signal	Blue Signal	Red Signal
1	3,91,100(CUS)	174.4 0	53.15	Chorya si	Magdalla		
	11,074(CUM)				Nava Varacha		
					Gavir		
					Surat City		
					Umra		
					Tunki		
					Singapor		
					Ved		
					Bharthana (Vesu)		
					Althan		
					Rander		
2	4,40,400(CUS)	175.5 0	53.40	Chorya si	Katr Gam	Magdala	
	12,740(CUM)				Dabholi	Nava varacha	
					Piplod	Gavier	
					Khatodra	Surat City	
					Vesu	Umra	
					Majura	Tunki	
					Anjana	Singapor	
					Parvat	Ved	
					Dhamrod	Bharthana (vesu)	
					Fulpada	Althan	
					Athva	Rander	
					Jahnagirpura		
					Adajan		
					Parvat		
					Dhamrod		
					Bhimrad		
					Udhna		
					Simada		

					Kumbhariya		
					Karjan		
					Dumas		
					Sarsana		
					Kavas		
					Bhatha		
					Palanpor		
					Bharthana		
3	4,60,640(CUS)	176.05	53.60	Corasi	Runda	Katargam	Magdalla
	13,044 (CUM)				Navagam	Dabholi	Nava Varacha
					Puna	Piplod	Gavier
					Saroli	Kathodra	Surat City
					Ichhapor	Vesu	Umra
						Majura	Tunki
						Anjana	Singapor
						Parvat	Ved
						Dhamrod	Bharthana (Vesu)
						Fulpada	Althan
						Athva	Rander
						Jahangirpora	
						Adajan	
						Vairav	
						Bhatar	
						Bamroli	
						Bhimrod	
						Udhna	
						Simada	
						Kumbhariya	
						Karanj	
						Dumas	
						Sarsana	
						Kavas	
						Bhatha	
						Palanpor	
						Bharthana	
						Kosad	
4	5,20,375 (CUS)	177.25	54.04	Choryasi	Chhaaprabhatha	Rander	Katargam
	14,735 (CUM)				Bharthana (Kosad)	Navagam	Dabholi
					Malgama	Puna	Piplod
					Limla Township	Saroli	Kathodra
					Bhesan	Ichhapoor	Vesu
					Bhatpor		Majura

							Anjana
							Parvat
							Dhamrod
							Fulpada
							Athva
							Jahngirpora
							Adajan
							Vairav
							Bhatar
							Bamroli
							Bhimrod
							Udhna
							Simada
							Kumbhariya
							Karanj
							Dumas
							Sarsana
							Kavas
							Bhatha
							Palanpor
							Bharthana
							Kosad
				Mandvi	Kakrapar		
				Kamrej	Kamrej		
					Kholvad		
					Kholeswar		
					Laskana		
					Bherav		
					Amboli		
5	5,80,740(CUS)	178.50	54.52	Mandvi	Mandvi	Kakrapar	
	16,444 (CUM)				Khedapor		
					Patha		
					Vishgam		
					Vagacha		
					Varoli		
					Moti Cher		
					Pipaltha		
					Kakadva		
				Bardoli	Miyavadi	Sarthana	Kamrej
				Kamrej	Timba	Aakhakhol	Kholvad

					Choryasi		Koleswar
					Antroli		Laskana
					Tharoli		Bhairav
					Pardi		Amboli
					Bhada		
					Sarthana		
				Olpad	Sayan		
					Vasvari		
					Atodra		
					Asnad		
					Saroli		
					Gothan		
					Jothan		
					Umra		
					Sivan		
					Delad		
					Segva		
					Madhar		
					Karamla		
					Ariyana		
					Sonsak		
					Balkas		
					Gola		
					Kosam		
					Mahmadpur		
					Earthan		
					Setul		
					Ambehta		
					Kunkai		
					Veluk		
					Pinjrat		
				Choryasi		Chhaaprabhatha	Runha
						Bharthana (Kosad)	Navagam
						Malgama	Puna
						Limla-Township	Saroli
						bhesan	Ichhapor
						Bhatpor	
6	6,90,370(CUS)	180.50	55.03	Choryasi		Mora	Chhaaprabhatha
	19,449 (CUM)					Mota Varacha	Bharthana
						Amroli	Limla Townshi p

						Utran	Malgama
						Vanta	Bhesan
							Bhatpor
				Mandvi	Kosamdi	Mandvi	Kakrapar
						Khedapor	
						Pathan	
						Vashigam	
						Vagacha	
						Varoli	
						Moticher	
						Pipaldha	
						kakadwa	
				Kamrej		Chorashi	Kamrej
						Antroli	Kholvad
						Tharoli	Kholeswar
						Pardi	Laskana
						Bhada	Bhairav
						Valsat	Amboli
						Sarthana	
						Sarsana	
						Aakhakhhol	
				Olpad	Olpad	Sayan	
					Asnabad	Vasvari	
					Barbodhan	Atodra	
					Pariya	Asnaad	
					Vadod	Saroli	
					Sandhiar	Gothan	
					Sithana	Jothan	
					Masama	Umra	
					Andhi	Sivan	
					Kalipur	Delad	
					Isnapor	Segva	
						Madhar	
						Karamla	
						Ariana	
						Sonsak	
						Balkas	
						Gola	
						Kasom	
						Mahmadpora	
						Earthan	
						Setul	
						Ambheta	
						Kunkai	

						Veluk	
						Pinjrat	
7	7,60,150(CUS)	181.7 5	55.41	Chorya si		Mora	
	21,524(CUM)					Mota Varacha	
						Amroli	
						Utran	
						Vanta	
				Mandv i	Rataniya	Kosmadi	Mandvi
					Umarsadi		Khedpor
					Vareli		Patha
					Kamalpor		Vashiga m
					Varthan		Vagacha
					Rajwad		Varoli
					Kharoli		Moticher
					Unn		Pipaldha
					Virpor		Kakadva
					Vanakla		
				Bardoli	Kadod		Miyavad i
					Uchrael		
				Kamre j	Jiyor		Timba
					Karjan		Choryasi
					Bhairav		Antroli
					Amboli		Tharoli
					Abrama		Pardi
					Navi pardi		Bhada
					Derod		Valsat
					Ghala		Sarthana
					Dhoranpardi		Amboli
					Dungra		
					Dhatva		
					Machi		
					Nansad		
					Dethli		
					Shampora		
				Olpad	Dihen	Olpad	Sayan
					Kundlana	Asnabad	Vasvani
					Acharana	Barbodhan	Atodara
					Kamaj	Pariya	Asnad
					Saroli	Vadod	Saroli
					Talad	Sandhiyar	Gothan
					Sherdi	Sithana	Jothan
					Orma	Masma	Umra
						Andhi	Sivan

						Kalipur	Delad
						Isanapur	Segva
							Madhar
							Karamal a
							Ariyana
							Sonsak
							Balkash
							Gola
							Kosam
							Mahmad pur
							Erthan
							Setul
							Ambheta
							Kunkai
							Veluk
							Pinjrat
8	8,90,760(CUS)	184.0 0	56.10	Mandv i	Roswad	Rataniya	Kosmadi
	25,223(CUM)				Khanjroli	Umarsadi	
					Khelar	Vareli	
					Kosadi	Kamalapur	
					Godavadi	Vareth	
					Una	Rajvad	
					Vagnera	Kharoli	
					Varethi	Unn	
					Vadi	VirporVankal	
				Bardoli	Nasura	Kadod	
						Uchrel	
				Kamre j	Gaduli	Giyor	
					Limodra	Karjan	
					Pasodranavaga m	Bhairav	
					Timba	Amboli	
						Abrama	
						Navipardi	
						Derod	
						Ghala	
						Dhoranpardi	
						Dungra	
						Dhatva	
						Machhi	
						Nansad	
						Dethli	
						Shampura	
				Olpad	Bhandut	Dihen	Olpad

					Kaslakhurd	Kundalana	Asnabad
					Kachhol	Achharna	Barbodhan
					Tena	Kamaj	Pariya
					Kasla Bujrang	Saroli	Vadod
					Saras	Talad	Sandhiar
					Vadila	Sherdi	Sithana
					Sejpura	Orma	Masma
					Halthisa		Andhi
					Matkol		Kalipur
					Bhatgam		Isanpur
					Ansad		
					Sarsana		
					Sondla Mitha		
					Morthana		
					Takrama		
					Hasanpor		
					Kanbhai		
					Obhla		
					Bharunda		
					Shekhpur		
				Choryasi	Bharthana(Vesu)		Mora
					Althan		Mota Varacha
					Pandesara		Amroli
					Kosmada		Utran
					Govlak		Vanata
					Vanasva		
					Bhatlai		
					Dsmka		
					Mora		
					Suwali		
					Abhva		
9	9,50,950(CUS)	180.55	56.40	Mandvi	Vadod	Roswad	Rataniya
	26,927(CUM)				Nogama	Khanjroli	Umarsadi
					Kevadiya	Khaler	Vareli
					Veghi	Kosdi	Kamlapor
					Naren	Godwadi	Vareth
					Kharoli	Unn	Rajvad
					Nanpora	Vagnera	Karoli
					Andharti	Varethi	Unn
						Vadi	Virpor
							Vanakla
				Bardoli	Haripora	Nnsura	Kadod

							Uchrael
				Kamre j		Galudi	Gior
						Limodara	Karjan
						Pasodra	Bhaira
						Navagam	Amroli
						Timba	Abrama
							Navi pardi
							Derod
							Ghala
							Dhoranp ardi
							Dungra
							Dhatva
							Machi
							Nansad
							Dethli
							Shampur a
				Olpad	Lavachha	Bhandut	Dihen
					Admor	Kaslakhurd	Kundlan a
					Kudiyan	Kachhol	Achharn a
					Kuwad	Tena	Kmarej
					Kapasai	KaslaBujrang	Saroli
					Kunbhari	Saras	Talad
					Naghoi	Vadila	Sherdi
						Sejpor	Orama
						Hathisa	
						Motkol	
						Bhat Gam	
						Asnad	
						Sarsana	
						Sondhla Mitha	
						Morthana	
						Takarma	
						Hasnpor	
						Kanbhai	
						Obhala	
						Bharunda	
						Shekhpor	
						Lavacha	
				Chorya si	Limbayat	Bharthana (Vesu)	
					Parvat	Althan	
					Sanla Ahemad	Pandesara	

						Kosmada	
						Govalak	
						Vanasva	
						Bhatlai	
						Damka	
						Mora	
						Suwali	
						Abhva	
10	10,00,000(CU S)	185.7 0	56.40	Mandvi	Tarsada	Vadod	Roswad
	28,317(CUM)				Varjakhan	Nogama	Khanjrol i
					Uncha-Mala	Kevadia	Khaler
					Bedkuva	Vegi	Kosdi
						Naren	Godavri
						Kharoli	Unn
						Nandpur	Vagnera
						Andhatri	Varethi
							Vadi
				Bardoli	Zarimora	Haripura	Nasura
					Vadhvaniya		
				Kamrej	Kathor		Ghaludi
					Kathodra		Limodra
					Kolibharthana		Pasodra
					Netrang		Navaga m
							Timba
				Olpad	Delasa	Lavachha	Bhandut
					Sondhlkhara	Admor	Kaslakh urd
					Mirzapor	Kudiyana	Kachhol
					Mindhi	Kuwad	Tena
					Morbhava	Kapasi	Kasla Bujrang
					Syabha	Kumbhari	Saras
						Naghoi	Vadila
						Koba-pardi	Sejpura
						Kachhab	Hathisa
						Delasa	Matkoi
							Bhatgam
							Ansad
							Sarsana
							Sndhla Mitha
							Morthan a
							Takarma

							Hasanpo r
							Kanbhai
							Obhala
							Bharund ra
							Shekhpo r
				Chorya si	Abhva	Limbayat	Bhartha n (Vesu)
					Magob	Parvat	Althan
					Khajod	Sanla Hemad	Pandesar a
					Althan		Kosmad a
					Sarsana		Govalak
					Pandesara		Vansava
					Kosamba		Bhatlai
							Damka
							Mora
							Suvali
							Abhva
11	11,00,000(CU S)	187. 20	57.20	Mandv i		Tarsada	Vadod
	31,148(CUM)					Varjakhan	Nogama
						Uncha-Mala	Kevadiy a
						Bedkuva	Veghi
							Naren
							Kharoli
							Nandapu r
							Andhatri
				Bardoli		Zarimora	Haripur a
						VAdhvaniya	
				Kamre j		Kathor	
						Kathodra	
						Koli Bharthana	
						Netrang	
				Olpad		Delsaa	Lavachh a
						Sondhlakhara	Admor
						Mirzapor	Kudhiya na
						Mindhi	Kuwad
						Morbhava	Kapasi

						Sayabha	Kunbhar i
							Naghoi
							Koba- Pardi
							Kachhab
				Chorya si		Abhva	Limbaya t
						Mogab	Parvat
						Khajod	Sanla Hemad
						Althan	
						Sarsana	
						Pandesara	
						Kosmba	
12	12,00,000(CU S)	188.7 0	57.51	Mandv i			Tarsada
	33,980(CUM)						Varjakh an
							Uncha- Mala
							Bedkuva
				Bardoli			Zarimor a
							Vadhvan iya
				Kamre j			Kathor
							Kathodr a
							Kolibhar thana
							Netrang
				Olpad			Delasa
							Sondhla khara
							Mirzapo r
							Mindhi
							Morbhav a
							Syabha
				Chorya si			Abhva
							Magob
							Khajod
							Althan
							Sarsana

							Pandesar a
							Kosamb a

13.6 Cyclone affected villages

Choryasi, Olpad & Surat City are cyclone affected talukas of the District.

Taluka	Village Name	Affected Population	Village Name	Affected Population
Olpad	Pardi Zakhri	1233	Bhadol	1657
	Nesh	500	Kadrama	1811
	Karanj	1652	Bhadunt	1191
	Mor	5646	Pinjrat	5173
	Jinod	1142	Tena	1119
	Mirzapor	838	Koba	854
	Bhagva	679	Thothab	700
	Dandi	2758	Ansad	1607
	Delasa	1256	Kamroli	944
	Kapasi	365	Hathisa	473
	Kudiyana	1740	Kuvad	1086
	Lavachha	2218	Saras	2562
	Admor	1076	Kachhol	498
	Mandroi	1616	Barbodhan	2496
Choryasi				
	Vansva	2239	Hazira	6934
	Rajgari	1176	Mora	6115
	Suvali	900	Damka	4386
	Junagam	2000		
Surat City				
	Dumas	7735	Vanta	661
	Bhimpore	7553	Magdalla	5257
	Sultanabad	3263	Abhva	2881
	Gaviar	2449	Rundh	2155

Earthquake:

Surat District is under Seismic Zone III. The Surat City, Choryasi, Olpad, Kamrej taluka have a multistoried buildings. Bardoli , Palsana having some multistoried buildings. These are the vulnerable talukas for Earthquake.

In taluka level most of the construction was not regulated by government authorities. Even in lower economic conditions, the equipments/Material used was not qualitative. The constructions unable to suffer the earthquake.

Mandvi, Mahuva, Umarpada taluka having constructions of wood & leaf. So, it decrease the vulnerability.

Road Accidents:

Surat passes Broad-gauge railway lines 1. Western railways from Ahmedabad to Mumbai and 2. Central railway lines from Surat-Bhusaval-Amaravati lines. The national Highway No-8 Ahmedabad-Mumbai passes from Surat. Most of the cities & Villages of the district connected with state highways and local roads. Surat city, Mangrol, Olpad are vulnerable for road accidents.

Mangrol taluka passes N.H-8, kim char rasta to Tadkeshwar passes state road, Kosamba char rasta to Jankhvav passes state road. Here the places occur highly accidents in the district. Most accidents occur on NH-8 at this taluka. Mangrol taluka having 12 km Broad gauge lines and 33 km Nero gauge lines passes, there is no over bridge on it. N.H-8 & state road passes most of the vehicles from Hazira Notified Area with gas, Chemical & Highly Flammable gases/Liquids. So, these are these are the points which are highly vulnerable for Road & Chemical disaster.

Olpad passes S.H -6 on turn of NH-6 at Vadoli Chokadi and Cyanide turn occurs most of Road accidents. Near saroli bridge is also sensitive for road accidents.

Palsana and Bardoli pass NH 8 & 6. Near Kadodara chokadi is sensitive for road accidents.

Industries & Chemical Hazards:

Choryasi taluka is highly vulnerable for Industries & Chemical Hazards because of Hazira Notied Area and MAH units under the area. As per the district offsite plan, it affects the 11 villages the detail is mention below.

Choryasi Taluka:

Sr. No	Name of Village	Population	Sr. No	Name of Village	Population
1	Limla	5675	7	Dumas	7266
2	Mora	7416	8	Sunvali	2573
3	Kawas	2215	9	Rajgari	1009
4	Bhatpor	2327	10	Damka	4039
5	Ichchapor	5144	11	Bhatlai	1303
6	Vanta	472			

Mangrol Taluka:

Sr. No.	Village	Population	Village	Population
Industrial/ Chemical 16 Villages	Pipodara,	342	Mota	423
	Kosamba,	302	Basra,	
	Dhamdod,	401	Palod,	323
	Nanaborsara,	321	Kothwa,	324
	Mahuvej,	296	Siyalaj,	357
	Lindiyar,	342	Moti	
	Bhatkol,	202	Naroli,	256
	Limodara	256	Valesa,	232
			Nani	589
			Naroli,	
			Kuwarda	564

Cities pandsara, Udhana, Limbayat & athwa zone is vulnerable for chemical disaster. In pandesara, Udhna the powerlooms, Dying-Printing Mills & Embroidery factories creates the chemical disaster. Some of them storage the chemical which created the chemical disaster probability. Athwa & Rander zone is near the Hazira Notifies Area, & also near having Magdalla port. Resident near the area vulnerable for chemical & Industrial Hazard. The detail of affected villages and evacuation centers which is linked from Offsite Plan Surat-2010.

Gas pipelines, Chemical plants & industrial units in olpad taluka. The cyanide chemical company which produce potassium cyanide, Potassium pharos cyanide, Sodium cyanide, Sodium Pharos cyanide & other chemicals, If any hazard occurs in the company the processing chemical ammonia gas & other dangerous gases creates the disaster in nearby area.

Nuclear Power Radiation :

Name of Nuclear Power Plant	Villages in radius of 16 Kms	Population of respective villages (According to Census 2011)
Kakrapar Atomic Power Station, Ta: Mandvi, Di: Surat	Balda (8 to 16 km)	2790
	Bamni (8 to 16 km)	1422
	Bhesudala (8 to 16 km)	1301
	Haripura (8 to 16 km)	1714
	Junvani (8 to 16 km)	754
	Kadod (8 to 16 km)	11401
	Madhi (8 to 16 km)	7650
	Masad (8 to 16 km)	2054
	Miyavadi (8 to 16 km)	535
	Navi Bhatlav (8 to 16 km)	970
	Nasura (5 to 8 Km)	940
	Orgam (8 to 16 km)	1632
	Samthan (8 to 16 km)	1117
	Singod (8 to 16 km)	2172
	Surali (8 to 16 km)	9286
	Uchhrel (8 to 16 km)	1314
	Vadhvaniya (5 to 8 Km)	1797
	Vanskui (5 to 8 Km)	3010
	Rajvad (5 to 8 Km)	1468

13.7 Annexure: List of resources available in district

List and details of Cranes, Dumpers, Excavators, Heavy & Medium Goods Vehicles available in Surat district, along with Registration Number, Address, Name of Owner, Contact Details, etc. is attached separately in an Annexure.

List of available resources in the district.

(List of external private organizations that have heavy vehicles, such as earthmovers, in times of emergency)

210	G/05R26490	JAYESHKUMAR	AT PO : C 710, RAGHUVIR SAFFRON OPP MANSAROVAR BANGLOWS, ALTH	Tractor (Commercial)	AGRICULTURE TRACTOR	9879978844
211	G/05SP2336	SAMAD MAHAMAD/HAKEERALI AN	138 SIDHHI RESI VILL: KARELI TA: OLPAD, DISTRICT: SURAT, STATE: GJ, PIN	Construction Equipment	BACKHOE LOADER	9558306867
212	G/05SP2361	ALOK ENTERPRISE	140, SIDDHESHWAR ROW HOUSE KAWAS, CHORASI SURAT, DISTRICT: SURAT	Construction Equipment	LOADER	9825223297
213	G/05SP2032	MADHU ENTERPRISES	HOUSE NO 22 SAILEELA RESIDENCY NEAR HANUMAN TEMPLE KIM, KIM, D	Construction Equipment	HYDRAULIC MOBILE CR	7487841073
214	G/05SP2067	PAL BUILDCON	PL NO 124 SHYAM NAGAR SOC, VIBHAG-2 VILLAGE: NAVAGAM, TALUKA: K	Construction Equipment	BACKHOE LOADER	9879042285
215	G/05SP2289	PAL BUILDCON	PL NO 124 SHYAM NAGAR SOC, VIBHAG-2 VILLAGE: NAVAGAM, TALUKA: K	Construction Equipment	BACKHOE LOADER	9879042285
216	G/05SP2295	SANTCHHAYA CORPORATION LLP	HOUSE NO 6, BLOCK NO.146 BHARVAOVAS, TALAV FALIYA TAL. KAMREJ, D	Construction Equipment	RIGID FRAME	9825878082
217	G/05SP2463	NR EPC PROJECT PRIVATE LIMITED	PLOT NO 90-91, SUBH IND PARK PARAB, TAL. KAMREJ, DISTRICT: SURAT, S	Construction Equipment	RIGID FRAME	9737537399
218	G/05CY0014	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
219	G/05CY0212	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
220	G/05SP2136	VIRENKUMAR BALDEVBHAI PATEL	PARASIVAD PO BANDER BHESAN, DISTRICT: SURAT, STATE: GJ, PIN CODE: 3	Construction Equipment	BACKHOE LOADER	9879913003
221	G/05R25899	VIVEK KALPESHBHAI MODI	AT 37, HARIKESH SOCIETY OPP JIM PETROL PUMP JAHANGIRPURA, DISTRICT	Tractor (Commercial)	AGRICULTURE TRACTOR	7990550617
222	G/05SP2119	AJUM SHAJI LAD	MANDVI FALIYU AT PO DAMKA TAL CHORYASI, DISTRICT: SURAT, STATE: G	Construction Equipment	15 TON PICK-UP CARRY C	8865582223
223	G/05R25431	TEJU	AT GODADARA, MANSAROVAR SOCIETY 97 SURAT, DISTRICT: SURAT, STAT	Tractor (Commercial)	AGRICULTURE TRACTOR	8141882170
224	G/05R25741	GORESHBHAI	PLOT NO 120 SIAM BORO SACHIN SURAT TA CHORASI, DISTRICT: SURAT, S	Tractor (Commercial)	AGRI TRACTOR OPEN	9537185820
225	G/05R25935	JAGDISH JILUBHAI SADATIYA	E-2/202, OPERA CRISTAL VARIAY 8/S SAYAN CHECK POST VARIAY, DISTRI	Tractor (Commercial)	NA	6354481787
226	G/05CY0042	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
227	G/05CY0056	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
228	G/05CY0076	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
229	G/05CY0089	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
230	G/05CY0103	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
231	G/05CY0360	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
232	G/05CY0198	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
233	G/05CY0238	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
234	G/05CY0251	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK SOCIETY VILLAGE MORA TALUKA CHORYASI	Trailer (Commercial)	SIDE WALL TRAILER	9879108019
235	G/05SP2049	SANIM MAHEMUD ANSARI	KASBA MOHALLA NEAR PETROL PUMP OLPAD, DISTRICT: SURAT, STATE: G	Construction Equipment	RIGID FRAME	9426149358
236	G/05SP2132	SANTCHHAYA CORPORATION LLP	HOUSE NO.6, BLOCK NO.146 BHARVAOVAS, TALAV FALIYA TAL. KAMREJ, D	Construction Equipment	RIGID FRAME	9825878082
237	G/05SP2146	ARSHIBHAI KATTHADBHAI JINJALA	25 SHRI GANESH BUNGLOWS MAINNA KAMREJ, DISTRICT: SURAT, STATE: C	Construction Equipment	BACKHOE LOADER	9879645117
238	G/05SP2437	JNP INFRASTRUCTURE	PLOT NO C 23 RIO COLINA AT GHALA TAL. KAMREJ, DISTRICT: SURAT, S	Construction Equipment	15 TON PICK-UP CARRY C	8905244219
239	G/05SP2438	SANTCHHAYA CORPORATION LLP	HOUSE NO.6, BLOCK NO.146 BHARVAOVAS, TALAV FALIYA TAL. KAMREJ, D	Construction Equipment	RIGID FRAME	9825878082
240	G/05SP2441	SANTCHHAYA CORPORATION LLP	HOUSE NO.6, BLOCK NO.146 BHARVAOVAS, TALAV FALIYA TAL. KAMREJ, D	Construction Equipment	RIGID FRAME	9825878082
241	G/05SP2820	AKSHAR BUILDCON	FF 21, DADA BHAGWAN COMPLEX VILLAGE NAVAGAM KAMREJ CHAR RAS	Construction Equipment	FULLY BUILT	8758110000
242	G/05CY0074	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
243	G/05CY0125	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
244	G/05CY0255	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
245	G/05CY0271	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
246	G/05CY0385	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
247	G/05CY0396	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
248	G/05CY0409	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93, SHANTI PARK SOCIETY VILL-MORA, TAL-CHORYASI, DISTRI	Trailer (Commercial)	SEMI TRAILER	9879108019
249	G/05R25014	KRISHNA ART SILK CLOTHS PVT LTD	261/A, GIDC, PANDESARA SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 3	Tractor (Commercial)	OPEN STATION	9099233369
250	G/05SP2129	DHANRAJ ROHIDAS BIRHADE	12, JAMNA PARK NEAR RAMAYAN PARK, NAVAGAM DINDOLI, DISTRICT: S	Construction Equipment	FORKLIFT	9157015296
251	G/05SP2498	NITIN RAMANBHAI PATEL	KUMBHAR FALIYU MORA GAM TALUKA CHORYASI, DISTRICT: SURAT, STAT	Construction Equipment	TRAILER	9099946436

168	G/05SP2267	LALA BHARVAD	246-K NISHAL FALYA AT SHEKHUPUR KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	BACKHOE LOADER	9913730760
169	G/05SP2268	SIDDHIVINAYAK INFRASTRUCTURE	405 SILVER STONE ARCADE NR. D-MART, CAUSWAY ROAD SINGANPORE, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	SELF LOADING CONCRETE	9824675584
170	G/05SP2269	BATLIBOI LTD.	POST FATEH NAGAR, SURAT NAVSARI ROAD, UDHNA, DISTRICT: SURAT, STATE: GJ	Fork Lift	METALIC	987591685
171	G/05SP2270	VISHNULAL KISHORILAL YADAV	SATYAM B-703 SIDDH VINAYAK RESIDENCY STATION ROAD, SACHIN DIST, STATE: GJ	Fork Lift	METALIC	7016616959
172	G/05R27847	DIVYESH BHAI	4, NAVAPARA, BARBODHAN, QIPAD AT BARBODHAN TA OLPAD DIS SURAT, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	AGRICULTURAL TRACTOR	9879866607
173	G/05R27752	BABU ESHKUMAR POORANSINH KUMAR	1483 SHREE JAY AMBE GROUP SOC. BAMROLI ROAD, PADESARA SURAT, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	AGRICULTURAL TRACTOR	7777958123
174	G/05SP2021	SHREE AMBICA BREAK DOWN SERVICE	118/1, BRAHMAN FALYU DAMKA, CHORASI, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	RECOVERY VAN	9724637777
175	G/05SP2155	SHREE AMBICA BREAK DOWN SERVICE	118/1, BRAHMAN FALYU DAMKA, CHORASI, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	RECOVERY VAN	9724637777
176	G/05SP2137	RATNAM POPATBHAI SAVANI	GROUND FLOOR, PLOT NO. 8/299 OPERA HOMES TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	HYDRAULIC MOBILE CRANE	9879941282
177	G/05SP2162	AJAY GHANSHYAMBHAI BHIMANI	PLOT NO. 18, SHAKTI LACK CITY AT PO. NANSAD, TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9510648469
178	G/05SP2321	PUNIT HEMAJI VANJARA	PLOT NO. 44, VENUS RAW HOUSE MASMA TAL. OLPAD, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	FULLY BUILT	9898437424
180	G/05C/0989	SHREE VASUDEV ENTERPRISES	C/O SP NO. 3 PL 84 DINDAYAL SOC BUNGLOW TYPE VILL. SURAT (M CORP-4), DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	SKY LIFT	9643620917
181	G/05R27455	RAMESHWARLAL	NAVAGAM, 3-4, BLOCK NO-517, NIRANJAN CORPORATION, DINDOLI ROAD, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	AGRICULTURAL MOBILE CRANE	9825199489
182	G/05SP2101	PARVEENKUMAR JAI PRAKASH GADIPATI	NAVAGAM, 3-4, BLOCK NO-517, NIRANJAN CORPORATION, DINDOLI ROAD, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	AGRICULTURAL MOBILE CRANE	9825199489
183	G/05R27394	MAYANK AQUACULTURE PVT LTD.	SURVEY NO:185, BLOCK NO:239 VILLAGE-MANDROLI, TAL: DILPAD, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	OPEN	9879554242
184	G/05SP2147	NR EPC PROJECT PRIVATE LIMITED	PLOT NO. 90-91, SUBH IND PARK VILLAGE PARAB, TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9737537399
185	G/05SP2216	NR EPC PROJECT PRIVATE LIMITED	PLOT NO. 90-91, SUBH IND PARK VILLAGE PARAB, TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9737537399
186	G/05SP2246	NR EPC PROJECT PRIVATE LIMITED	PLOT NO. 90-91, SUBH IND PARK VILLAGE PARAB, TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9737537399
187	G/05SP2374	NR EPC PROJECT PRIVATE LIMITED	PLOT NO. 90-91, SUBH IND PARK VILLAGE PARAB, TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9737537399
188	G/05SP2424	JATMARAM MORSING CHAVHAN	BLOCK NO. 89 4 VILL. MORA TAL. CHORASI, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	14 TON PICK-UP CARRY CRANE	9601801571
189	G/05SP2110	MOHAMMADSAKUR MOHAMMAD MUHAMMAD	DAMKA PATIYA SHOP NO. 7 BHAST AT POST MORA TAL. CHORASI, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	15 TON PICK-UP CARRY CRANE	9173340157
190	G/05SP2475	JIGNASA DIPAK SAVALIYA	C/O NANDANI LOGISTICS 12 MARBELLA WILLOWS, NEAR MORTHANA KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	FRAME	9825675875
191	G/05SP2138	AAKRUTI INFRA CONSTRUCTIONS	422/2, OLD MILKAT NO. 455 MOTAVADA STREET, HAJIRA, CHORASI, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	HYDRAULIC MOBILE CRANE	9909929056
192	G/05R26590	DANAV BUILDCON RMC	SHANTI KUNJI BANGLOW KAMREJ, DIGAS ROAD KAMREJ, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	OPEN STATION	9722146983
193	G/05SP2092	AFFZAL ABDUL KAYUM ANSARI	478, AVKAR APARTMENT AMBOLI KAMREJ, STAR NAGAR AMBOLI CHAR, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9898848194
194	G/05SP2082	NARENDRA NIRMAL SINGH	41 SAI RESIDENCY, HAZIRA ROAD, ICHCHAPOR, NEAR RUCHI TOWNSHIP, DISTRICT: SURAT, STATE: GJ	Fork Lift	CMV	7405966786
195	G/05C/4410	DILIPBHAI	66, SAI ROW HOUSE, VARIYAV AMROLI, AMROLI CHORASI VTC/PO AMROLI, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	AGRICULTURAL TRACTOR	9106152130
196	G/05SP5557	DECENT ENGINEERS	UG 20, ASCON PLAZA ANAND MAHAL ROAD ADAJAN, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	BACKHOE LOADER	7046887777
197	G/05SP7557	DECENT ENGINEERS	UG 20, ASCON PLAZA ANAND MAHAL ROAD ADAJAN, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	BACKHOE LOADER	7046887777
198	G/05R26258	BHAGUBHAI HARIBHAI AHIR	93, SLAM BOARD, NEAR RAMAPUR MANDIR NI PASE BHARVAD VAS SACHIN, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	OPEN	9726671099
199	G/05R26612	VRAJ INFRA	VIP CIRCLE EIGHTH FLOOR G-804 RAMESHWARAM REGENCY, MOTA VARA, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	NA	9365250214
200	G/05SP2038	SANTCHHAYA CORPORATION LLP	HOUSE NO. 6, BLOCK NO. 146 BHARVADVAS, TALAV FALYA TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9825878082
201	G/05SP2176	JAYDIPKUMAR BHANUBHAI SAVAI	PL-44 NILKANTH RESIDENCY OPP MIRA BUNGLOW KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	FULLY BUILT	9998495028
202	G/05SP2411	SANTCHHAYA CORPORATION LLP	HOUSE NO. 6, BLOCK NO. 146 BHARVADVAS, TALAV FALYA TAL. KAMREJ, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	RIGID FRAME	9825878082
203	G/05C/0656	GREEN PLANET TRANSPORTATION	138 GHANVSAM PARK, MORA VILLAGE TALUKA-CHORASI, DISTRICT: SURAT, STATE: GJ	Trailer (Commercial)	TRAILER CONTAINER	9879108019
204	G/05C/0686	GREEN PLANET TRANSPORTATION	138 GHANVSAM PARK, MORA VILLAGE TALUKA-CHORASI, DISTRICT: SURAT, STATE: GJ	Trailer (Commercial)	TRAILER CONTAINER	9879108019
205	G/05SP2085	BAIRANG CRANE SERVICE	PLOT NO. 29, DM RESIDENCY, R 5 NO-211 BLOCK NO-287, NEAR PRATISHTH, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	PICK UP CARRY HYDRAULIC	9825025282
206	G/05SP2378	CHARMESH BHAI SUNDARBHAI PATIL	49, NAVO MAHOLLO SANSANA SURAT, DISTRICT: SURAT, STATE: GJ	Construction Equipment Vehicle	BACKHOE LOADER	7068880132
207	G/05SP2054	RAJENDRA BHOJU PATIL	ROOM NO. A/26 KAILASH RESIDENCY, TAPOVAN SCHOOL, OLPAD, DISTRICT: SURAT, STATE: GJ	Fork Lift	METALIC	9879414620
208	G/05SP2303	RAJENDRA BHOJU PATIL	ROOM NO. A/26 KAILASH RESIDENCY, TAPOVAN SCHOOL, OLPAD, DISTRICT: SURAT, STATE: GJ	Fork Lift	METALIC	9879414620
209	G/05R26039	AKHTAR	AT PO : GHARDA STREET , LAIPOR TALUKA : CHORASI, DISTRICT: SURAT, STATE: GJ	Tractor (Commercial)	AGRICULTURE TRACTOR	9727272510

126	G/05R29456	UNIQUE CONSTRUCTION	PL. NO. 41, SAINATH SOCIETY, BHATAR SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	8980021261
127	G/05SP2025	PREM KUMAR	PI-31 BI 287, OM RESIDENCY VTC: MULAD SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	PICK N CARRY HYDRAULIC	9913181714
128	G/05SP2270	NAVGHAN RAGHUBHAI SABHAD	GOPAL NAGAR ANTROLI TAL KAMREJ, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	8160401558
129	G/05SP2274	PREM KUMAR	PI-31 BI 287, OM RESIDENCY VTC: MULAD, DISTRICT: SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	PICK N CARRY HYDRAULIC	9106637503
130	G/05SP2456	RANJUDEVI SONALAL SINGH	182, HAZIRA ROAD, BAPA SAI SITA RAM SOCIETY, KAVAS, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	PICK N CARRY HYDRAULIC	9825564986
131	G/05R29012	SAIFUDDIN MUJAFAR ALI SHAIKH	A-55 UMIMD NAGAR OPP BHESTAN RAILWAY STATION, BHESTAN, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	6353821611
132	G/05R29469	UTTAMBHAI	AT PO : A 98 SHRADHA SOCIETY NAWAGAM, DINOLI TALUKA, SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9726649304
133	G/05R28857	AKBAR NISHA	6668 SAGAR NAGAR NEAR PETROL PUMP FARSAJI / KOSAMBA, TARSADI, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	OPEN STATION	9824833368
134	G/05SP2122	PRAFULKUMAR VALLABHBHAI LAKH	PL 34 GF. ATMIYA VILLA AT PO. KAMREJ, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	FULLY BUILT	9909156182
135	G/05R28651	YADAV ARIJUNKUMAR VAIRAGI	0512 L I G GUJ HOU BOARD BUILDING NO 0632 PANDESARA SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9427136542
136	G/05SP2029	DEEN DAYAL PATEL	PLATE NO. : G1 GROUND FLOOR SAI COMPLEX, SHIVSHAKTI SOCIETY MOH, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9558722100
137	G/05SP2265	DHIRUBHAI RAGHUBHAI BHARVAD	GOPAL NAGAR ANTROLI KAMREJ, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9726110039
138	G/05SP2365	BHAVANBHAI SAULUBHAI BHARWIA	A 25, SHIV NAGAR KAMREJ SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9898421180
139	G/05SP2401	DEEPAKKUMAR S SINGH	11, SIDHVI VINAYAK ROW HOUSE-3 HAZIRA ROAD, MORA, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	8292848527
140	G/05SP2410	ANS CONSTRUCTION	4TH FLOOR, E-401, AAKASH EARTH BHIMRAD CANAL ROAD ALTHAN, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9484877471
141	G/05R28717	DILIPBHAI	AT PO : B-5, ANMOL PARK SOCIETY BEHIND NIRMAL NAGAR, SARTHANA, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9687566464
142	G/05R28867	AHIR KETAN MANILAL	REVA FALIYA BAUGABAI, DISTRICT: SURAT, STATE: GJ, PIN CODE: 394510	AGRICULTURE TRACTOR	7990550617
143	G/05R28931	DILIPBHAI	AT PO : B-5, ANMOL PARK SOCIETY BEHIND NIRMAL NAGAR, SARTHANA, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9687566464
144	G/05R28654	SAVANIKUMAR	G-302 DADABHAGVAN COMPLEX NAWAGAM KAMREJ SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9638000320
145	G/05SP2148	AJUM SHAJI LAD	MANDVI FALIYU AT PO DAMKA TAL CHORYASI, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	8865822223
146	G/05SP2257	AJUM SHAJI LAD	MANDVI FALIYU AT PO DAMKA TAL CHORYASI, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	8865822223
147	G/05SP2268	AJUM SHAJI LAD	MANDVI FALIYU AT PO DAMKA TAL CHORYASI, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	8865822223
148	G/05SP2018	NR EPC PROJECT PRIVATE LIMITED	PLOT NO. 90-91, SUBH IND PARK VILLAGE PARAB, TAL KAMREJ, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9737537399
149	G/05SP2185	HAIDERALI MOHAMMADALI ANSARI	KASBA MOHALLA NEAR PETROL PUMP OLPAD, PO: OLPAD, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9426149358
150	G/05SP2230	PREMIER LODMS MANUFACTURE	PLOT NOA-31, GF BLOCK NO-4 KICHHAPORE GIDC BHATPORE, HAZIRA ROAD, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9104191491
151	G/05SP2429	SAMIM MAHEMUD ANSARI	KASBA MOHALLA NEAR PETROL PUMP OLPAD, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9537335531
152	G/05SP2476	ASMITA JIGAR PATEL	GF-54 SAINATH ROW HOUSE BEHIND UMA MANGAL HALL KAMREJ CHAR, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	FULLY BUILT	9824299988
153	G/05SP2278	NITINKUMAR SHANKARLAL PATEL	42, KHADKI FALIYA MINCHI KAMROLI, TAL OLPAD DIST. SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	RIGID FRAME	9824912953
154	G/05R28575	SHAIKESHKUMAR	84-B, SARDAR PARK SOCIETY UDHANA MAGDALLA ROAD, ALTHAN TA. SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9426104331
155	G/05R28610	SHAIKESHKUMAR	84-B, SARDAR PARK SOCIETY UDHANA MAGDALLA ROAD, ALTHAN TA. SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9426104331
156	G/05R28675	SHAIKESHKUMAR	84-B, SARDAR PARK SOCIETY UDHANA MAGDALLA ROAD, ALTHAN TA. SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	7874072289
157	G/05R28758	NAZIM	A 10 SATGURU SOCIETY AT UNNI TA CHORASI DIS SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9426104331
158	G/05R28839	SHAIKESHKUMAR	84-B, SARDAR PARK SOCIETY UDHANA MAGDALLA ROAD, ALTHAN TA. SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9998155557
159	G/05SP5407	SURESHBHAI KANUBHAI CHOSLA	35-36, AMBICA NAGAR-1, KATHODRA KIM, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	METALIC	8401191318
160	G/05SP2432	RUDRABAHADUR DHANABHADUR	PLOT NO-218, PRATISTHA PARK-2, OLPAD, MULAD, VTC: MULAD, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9825801328
161	G/05R28403	H P GOPANI	NO G/1 SAI DARSHAN PALAZA KATARGAM MAIN ROAD, SURAT, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	AGRICULTURE TRACTOR	9913046786
162	G/05R28206	AKBARALI	PLOT NO-226 ASMA NAGAR UNN SURAT CITY, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9724590599
163	G/05SP2014	VIMALKUMAR RAJENDRASINH VAS	PATEL FALIYU CHIKHLI DUNIGAR KAMREJ, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	RIGID FRAME	9824462777
164	G/05SP2250	AMBADAS KISAN PHULARE	DELDADVA, CHORASI KHARVASA PO. KHARVASA, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	CONSTRUCTION EQUIPMENT	9328388117
165	G/05SP2291	SHIVANISH STEEL TRADING LLP	SHOP NO 325 J 9 HIGH STREET G D GOENKA CANAL ROAD, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	PICK N CARRY C	9904857124
166	G/05R28248	PYARELAL PRABHUDAYAL SAHU	132, LAXMI NAGAR GABHENI ROAD SACHIN TA-CHORASI, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	NA	9913690000
167	G/05R28422	PARK LOGISTICS	441, MATA FALIA POST HAZIRA TACHORYASI, DISTRICT: SURAT, STATE: GJ, PIN CODE: 395001	OPEN	

84	G/05SP2496	SHREE HINDUSTAN FABRICATORS	107, 1ST FLOOR, CHANCELLOR BUILDING OPP. RTO, RING ROAD, DISTRICT: SURAT	Construction Equipment Vehicle	HYDRAULIC MOBILE CRANE	9898013643
85	G/05R29724	UNITY RMC SOLUTIONS	BLOCK NO.195, OLD BLOCK NO.166/PINKI, J.N.H.NO.8 NEXT TO VAY SUB STATION, DISTRICT: SURAT	Tractor (Commercial)	OPEN STATION	9978999850
86	G/05SP3987	HIRENKUMAR KALUBHAI PARAKHI	PLOT NO.18, SHAKTI LACK CITY AT PO, NANSAD TAL, DISTRICT: SURAT	Construction Equipment Vehicle	FULLY BUILT	988437424
87	G/05R29806	TRILOK INFRA TECH	SURVEY NO. 18, NH-8 TO VELANJA ROAD VILLAGE ANTROLI TA-KAMREJ, DISTRICT: SURAT	Tractor (Commercial)	OPEN STATION	9979890084
88	G/05SP2335	YAMAI CONSTRUCTIONS	GROUND FLOOR, HOUSE NO 74, KRISHNA RESIDENCY, ON NATIONAL HIGHWAY, DISTRICT: SURAT	Construction Equipment Vehicle	BACKHOE LOADER	7629890454
89	G/05SP2492	SHAILESHKUMAR PURUSHOTAMD	84 B, SARDAR PARK SOCIETY U M ROAD ALTHAN, DISTRICT: SURAT	Construction Equipment Vehicle	BACKHOE LOADER	9426104331
90	G/05SP2358	AKSHAR INFRA	BAPS SWAMINARAYAN AKSHARDHAM NEAR JOTHAN-KANAD CHOWKADI, DISTRICT: SURAT	Construction Equipment Vehicle	HYDRAULIC MOBILE CRANE	7069062035
91	G/05SP6705	KANUBHAI VALLABHBHAI VASOYA	16 SHANTIVAN SOCIETY KAMREJ TAL, KAMREJ, DISTRICT: SURAT	Construction Equipment Vehicle	FULLY BUILT	9337503300
92	G/05SP2315	BOCHASANWASI SHRI AKSHAR	SWAMINARAYAN SANSTHA BAPS SWAMINARAYAN AKSHARDHAM NEAR JOTHAN-KANAD CHOWKADI, DISTRICT: SURAT	Crane Mounted Vehicle	HYDRAULIC MOBILE CRANE	7069062035
93	G/05SP2027	DHARMENDRAKUMAR SURESHBHAI	PROP. OF KHODIYAR ENTERPRISE, GROUND FLOOR, SHOP NO 07, BHIMRAJ FORT, DISTRICT: SURAT	Fork Lift	CMV	7284917849
94	G/05SP2168	KHODIYAR ENTERPRISE	GROUND FLOOR SHOP NO.7 BHIMRAJ SURAT INFINITY BIZZ HUB, DISTRICT: SURAT	Fork Lift	CMV	7698162576
95	G/05SP2346	DHARMENDRAKUMAR SURESHBHAI	PROP. OF KHODIYAR ENTERPRISE GROUND FLOOR, SHOP NO 07, INFINITY FORT, DISTRICT: SURAT	Fork Lift	CMV	7284917849
96	G/05SP2363	KHODIYAR ENTERPRISE	GROUND FLOOR SHOP NO.7 BHIMRAJ SURAT INFINITY BIZZ HUB, DISTRICT: SURAT	Fork Lift	CMV	7698162576
97	G/05R29607	AMARULLAH	12/A JUMMID NAGAR, BHESAN SURAT, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	9327982352
98	G/05R29768	SEEMABEN	AMRUT NAGAR KIM OLIPAD SURAT, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	8511732680
99	G/05R29961	RAJUBHAI	71 NEAR UTTAR BUNIYADI ASHRAM SHALA TADVADI VARIAV, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	9978890455
100	G/05SP2083	SHAH MAHAVIRKUMAR GERILAL	31 KAILASH SOCIETY, KIM, DISTRICT: SURAT	Fork Lift	METALIC	9723687000
101	G/05R29537	IPRAJUBHAI	AT PO : 1991, DIVADANDI, HAZIRA TALUKA : CHORYASI, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	9825352341
102	G/05R29832	RITESHKUMAR DEVAJIBHAI PRADIPAT	KIM, B 122 SUBHAM RESIDENCY TA-OLPAD, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	8949387878
103	G/05SP2066	SHREE VINOD SPUN PIPE INDUSTRIES	NEAR NIWASISHALA SCHOOL 139, SURVEY NO 192 SAYAN ROAD, NAVI TAL, DISTRICT: SURAT	Construction Equipment Vehicle	BACKHOE LOADER	9714364188
104	G/05SP2153	JAC PLUS READY MIX LLP	BLOCK NO.818, R.S NO-881, NEAR ANJANI INDUSTRIAL PARK, GOTHAN VARI, DISTRICT: SURAT	Construction Equipment Vehicle	WHEEL LOADER	9737443030
105	G/05SP2445	TATA PROJECT LIMITED	AM/NS HAZIRA PLANT 27 TH KM AMNS INDIA LIMITED HAZIRA ROAD HAZIRA, DISTRICT: SURAT	Construction Equipment Vehicle	TRUCK MOUNTED BUMPER	9834282280
106	G/05SP2072	SHREE AMBICA BREAK DOWN SERVICES	NH NO 8, AMBOLI KAMREJ ROAD, KATHOR, SURAT, DISTRICT: SURAT	Crane Mounted Vehicle	RECOVERY VAN	7623800000
107	G/05SP2209	SHREE AMBICA BREAK DOWN SERVICES	NH NO 8, AMBOLI KAMREJ ROAD KATHOR, SURAT, DISTRICT: SURAT	Crane Mounted Vehicle	RECOVERY VAN	7623800000
108	G/05SP2164	TATA PROJECTS LIMITED	ARCELOR MITTAL NIPPON STEEL INDIA L ICHCHAPORE, HAZIRA ROAD SURAT, DISTRICT: SURAT	Excavator (MT)	BACKHOE LOADER	8825500469
109	G/05R29088	MAFABHAI	53, GAYATRI NAGAR-1, NEAR CNG PUMP GODADRA SURAT CITY, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	7069006274
110	G/05R29172	GADHAVI LAXMAN	05-SAMRUDDHI PARK BEHIND PATEL PARK TA-KAMREJ, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	7990648803
111	G/05R29470	AMIBABHAI	178/180, S.K. NAGAR BESIDE CNG PUMP, PO, BOMBAY MARKET GOADARA, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	8459449383
112	G/05SP2012	GANSHYAM BUILDER	BL 398, PL 356 RIDDHI SIDDHI RESIDENCY VILLAGE, KAMREJ, TAL, KAMREJ, DISTRICT: SURAT	Construction Equipment Vehicle	FULLY BUILT	9173487573
113	G/05SP2102	VIPULBHAI MOHANBHAI DUDHAT	4 PLOT NO.52, VASTU ROW HOUSE TAL, KAMREJ, DISTRICT: SURAT	Construction Equipment Vehicle	FULLY BUILT	9924897106
114	G/05SP2178	RVPR ENGINEERING SERVICES PVT	ROW HOUSE NO 14 GROUND FLOOR TRUPATI ROW HOUSE SURVEY NO 8, DISTRICT: SURAT	Construction Equipment Vehicle	XC800_Y TRUCK CRANE	8340284699
115	G/05SP2248	GANSHYAM BUILDER	BL 398, PL 356, RIDDHI SIDDHI RESIDENCY, VILLAGE KAMREJ TAL, KAMREJ, DISTRICT: SURAT	Construction Equipment Vehicle	FULLY BUILT	9173487573
116	G/05SP2255	GORDHANSINGH PRAMSINGH	505, SHYAM SUNDAR PALACE UDHYOG NAGAR, NAVAGAM, KAMREJ, DISTRICT: SURAT	Construction Equipment Vehicle	HYDRAULIC MOBILE CRANE	7878420872
117	G/05SP2325	RAJESH KUMAR RAMSUNDAR PAM	78, GHANSHYAM PARK 2, MORA, DISTRICT: SURAT	Construction Equipment Vehicle	15 TON PICK-UP CARRY CRANE	9998482311
118	G/05SP2366	RAJESH KUMAR RAMSUNDAR PAM	78, GHANSHYAM PARK 2, MORA, DISTRICT: SURAT	Construction Equipment Vehicle	15 TON PICK-UP CARRY CRANE	9998482311
119	G/05SP2398	NIMESHBHAI SURESHBHAI VANJARI	30 SHIV VATIKA RESIDENCY MANKANA PO: MANKANA, KAMREJ, DISTRICT: SURAT	Construction Equipment Vehicle	BACKHOE LOADER	9737629949
120	G/05SP8089	BHARAT SUKDEV MORE	89, GROUND, AMBICA RESIDENCY B/H DEEP DARSHAN SCHOOL, UMIA, DISTRICT: SURAT	Construction Equipment Vehicle	FORKLIFT	9328205226
121	G/05SP2490	R D PAPERS	PLOT NO 1, VAKHARIYA IND. OPP GOLDAN FLAT BHESAN, SURAT, DISTRICT: SURAT	Fork Lift	METALIC	7900026155
122	G/05R29367	MITHALAL VARDICHAND VIRWAL	63, RANCHOD NAGAR RAW HOUSE NEAR AKAR SPORTS CLUB NANA VARI, DISTRICT: SURAT	Tractor (Commercial)	OPEN STATION	9879453200
123	G/05R29387	PRYANKKUMAR NARENDRA PATEL	66 PATEL FALYU BHATLAI AT-BHATLAI, DISTRICT: SURAT	Tractor (Commercial)	OPEN	7359537977
124	G/05R29409	HINALKUMARI	9, DAIRY FALYU, JUNAGAM, SUVALI-2 CHORYASI, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	8141032145
125	G/05R29433	UNIQUE CONSTRUCTION	PL NO. 41, SAINATH SOCIETY, BHATAR SURAT, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	8980021261

42	G/05/11077	REKHABEN	PLOT NO 43 -GAYATRI SOCIETY-1 DINDOLI BUS STAND -DINDOLI SURAT CITY	Tractor (Commercial)	AGRICULTURAL TRACTOR	9537596695
43	G/05/11081	VISHALBHAI	B/804, AKASH ENCLAVE, ALTHAN BHIMRAD ROAD, NR BHIMRAD CHECK P	Tractor (Commercial)	AGRICULTURAL TRACTOR	7567512508
44	G/05/11252	NIKUNJ	D-16 BHAIKAVI NAGAR-BHESTAN SURAT CITY SURAT -GUJARAT -394210 SU	Tractor (Commercial)	AGRICULTURAL TRACTOR	9879311818
45	G/05/11282	SHREENATH CONSTRUCTION	126, MARUTIDHAM RAW HOUSE OPP. SARTHANA RAW HOUSE SARTHANA	Tractor (Commercial)	OPEN	9925677958
46	G/05/11393	KALPESH	43/201, SUDA AWAS PAL, AT SUDA TADIS SURAT CITY, DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURAL TRACTOR	7567512508
47	G/05/SP2037	KIRIT VALLABHBHAI KOTHIYA	15T FLR E/3 FLAT NO.102 SHREE PUAN RESIDENCY YOGI CHOWK, PUNAG	Construction Equipment	BACKHOE LOADER	9925380032
48	G/05/SP2062	AMIANJEET KUMAR RAMNANDAN	GROUND, MILKAT NO 3709, SURVEY NO 283/2 PAIKI 38, MORA TEKRA VIL	Construction Equipment	HYDRAULIC MOBILE CR	9931597850
49	G/05/SP2424	R. R. RAJ INFRA TECH PVT LTD	204, DARREE FALIYA VILLAGE, SURALI CHORASI, DISTRICT: SURAT, STATE: G	Construction Equipment	BACKHOE LOADER	9979984366
50	G/05/10560	SARTHAK ENTERPRISE	37 HARIKRUSHNA SOCIETY V-1 NEAR BORDA FARM, PUNAGAM, DISTRICT: Tractor (Commercial)	Tractor (Commercial)	NA	9727371245
51	G/05/10776	MANUKUMAR	AT PO : SHIVSHAKTI DHAM BL NO 95, PL NO 67, TALANGPUR TALUKA : CH	Tractor (Commercial)	AGRICULTURE TRACTOR	9824957599
52	G/05/10932	RANCHHODHBHAI	KRUSHNA NAGAR, SURAT KAMREJ ROAD, LASKANA, DISTRICT: SURAT, STA	Tractor (Commercial)	AGRICULTURE TRACTOR	6351394487
53	G/05/14739	VIKESHKUMAR	47 RADHAKRISHNA PARK SOCIETY MORABHAGAL WEST ZONE, -BHESTAN TA	Tractor (Commercial)	AGRICULTURE TRACTOR	9879658977
54	G/05/10544	MS GANESH CEMENT PRODUCT	S.R.NO-225 OPEN LAND ANTHOLI KAMREJ SURAT, DISTRICT: SURAT, STATE	Tractor (Commercial)	AGRICULTURAL TRACTOR	9512024666
55	G/05/10641	TALA PRAVINBHAI	A-601, CELEBRATION HOMES NEAR MEGH MALHAR, JAKATNAKA SARTHAN	Tractor (Commercial)	OPEN	9099066906
56	G/05/10807	TALA PRAVINBHAI	A-601, CELEBRATION HOMES NEAR MEGH MALHAR, JAKATNAKA SARTHAN	Tractor (Commercial)	OPEN	9099066906
57	G/05/SP2273	ARIHANT STEEL AGENCY	GATE NO.3 PLOT NO AA 72 HOZIWALA INDUSTRIAL ESTATE ROAD NO 17 M	Construction Equipment	OPEN	9879755597
58	G/05/SP3001	RITESHKUMAR DEVJIBHAI PRAJAP	GROUND FLOOR, G-32 SAIRAM COMPLEX OPP PNB, KIM, TAL-OLPAD, DIST	Construction Equipment	RIGID FRAME	8849387878
59	G/05/SP2109	HAZIRA CONTAINER FREIGHT STATI	S NO.494-A/1, ADANI PORT ROAD, HAZIRA, TAL - CHORYASI, DISTRICT: SU	Pork Lift	METALIK	9667006644
60	G/05/SP3976	SAYAN GRAM PANCHAYAT	SARPANCH GRAM PANCHAYAT OFFICE NR DERASER AT PO SAYAN, TAL-OLP	Tractor (Commercial)	OPEN	9374499222
61	G/05/10623	HARESHKUMAR	113 SAINT TUKARAM SOCIETY, WING 2 OPP RAMJI MANDIR, JAKAT NAKA R	Tractor (Commercial)	AGRICULTURE TRACTOR	9664752452
62	G/05/10647	PREMASHILA DEVI SITARAM	206 AKASH ROW HOUSE VILLA AAP PANDESARA, DISTRICT: SURAT, STATE	Tractor (Commercial)	NA	8790834780
63	G/05/10925	KARIM	FLAT-401 NEW FALIYA A1-TOWER AT/PO. KHOLVAD TA, KAMREJ, DISTRICT: Tractor (Commercial)	Tractor (Commercial)	AGRICULTURE TRACTOR	9998669343
64	G/05/10938	NAGAJI	PLOT NO.9, JANVI BUNGLOWS BAPA SITARAM CHOWK, KAMREJ TA, KAMREJ	Tractor (Commercial)	AGRICULTURE TRACTOR	9881521617
65	G/05/10681	RAYZON SOLAR PRIVATE LTD	BLOCK NO-172/1 SUB PLOT NO-2 B/S EMINET PAPER INDUSTRIES AT SAV	Tractor (Commercial)	AGRICULTURAL TRACTOR	9638472636
66	G/05/SP2373	JAY AMBE INFRACON	SERVE NO-773 GAVIAR GAM NEAR MAGDALLA PORT CAIKAL ROAD, DISTH	Construction Equipment	BACKHOE LOADER	8401360305
67	G/05/10486	JANAK KANTIBHAI GAUDANI	PLOT NO.47, GOKUL RAW HOUSE NANSAD ROAD, VILLAGE KHAJRE, PO-KA	Tractor (Commercial)	OPEN STATION	9825191073
68	G/05/SP2040	TUSHARKUMAR POPATBHAI MUL	Q-307, SALIGRAM FLORA NAVAGAMI PASODARA ROAD KAMREJ, DISTRICT: S	Construction Equipment	FULLY BUILT	9510429245
69	G/05/SP2113	HITKUMAR KHAND PROPANK SOL	APLOT NO.513.514.515 RID INTEGRATED TEXTILE PARK ICHHAPUR, DISTRI	Construction Equipment	FORKLIFT	8733975255
70	G/05/SP2125	RAJ CONSTRUCTION	A 101, MAHARSHI APARTMENT TADWADI RANDER ROAD RANDERGAM, SIC	Construction Equipment	SELF LOADING CONCRET	9879447893
71	G/05/SP2220	MD YASIN	FL NO.202, 2ND FLOOR, SILVER PALACE NANA NAGAR NR NUR-U-ISLAM N	Construction Equipment	RIGID FRAME	8709638684
72	G/05/10138	UTTAM KUMAR	AT PO: A3/4, E.W.S AWAS NEAR COLOURTEX, BHESTAN TALUKA : SURATC	Tractor (Commercial)	AGRICULTURE TRACTOR	7004420287
73	G/05/10221	UTTAM KUMAR	AT PO: A3/4, E.W.S AWAS NEAR COLOURTEX, BHESTAN, JIAY TALUKA : S	Tractor (Commercial)	AGRICULTURE TRACTOR	7004420287
74	G/05/10242	NIRUBEN	38, TARVADI, VARIYAV SURAT (M CORP+OGI (PART) SURAT, DISTRICT: SU	Tractor (Commercial)	AGRICULTURE TRACTOR	9978807350
75	G/05/10308	UTTAM KUMAR	AT PO: A3/4, E.W.S AWAS NEAR COLOURTEX, BHESTAN, JIAY TALUKA : S	Tractor (Commercial)	AGRICULTURE TRACTOR	7004420287
76	G/05/SP2182	VIPULBHAI MOHANBHAI DUDHAT	PLOT NO.52, VASTU ROW HOUSE TAL KAMREJ, DISTRICT: SURAT, STATE: G	Construction Equipment	RIGID FRAME	9924897106
77	G/05/SP2396	MAHESH DHIRUBHAI BHAVANI	PL-144, AMAR BANGLOWS VILLAGE NANSAD TAL KAMREJ, DISTRICT: SURAT	Construction Equipment	FULLY BUILT	9909266594
78	G/05/10379	SHREERASINH VIRRAMSINH JADE	PLOT NO.41, MATRUKRUPA SOCIETY KHOLVAD, KAMREJ CHAR RASTA, TA	Tractor (Commercial)	NA	9824940000
79	G/05/SP3011	VIKESHBHAI GOVINDBHAI DHAM	569 KUMKUM RESIDENCY NEAR VASTU ROW HOUSE KAMREJ, DISTRICT: S	Construction Equipment	RIGID FRAME	9913648472
80	G/05/SP2015	HAZIRA CONTAINERFREIGHT STATI	PLOT NO 434/A/1, ADANI PORT ROAD HAZIRA, HAJIRA, CHORASI, DISTRICT	Construction Equipment	HYDRAULIC MOBILE CR	9662006644
81	G/05/SP2046	YOGESHBHAI NIKAM	263, OM NAGAR, DINDOLI RANGILA PARK, UDHNA, DISTRICT: SURAT, STA	Construction Equipment	FORKLIFT	9601651971
82	G/05/SP2107	CHANDRASINH GANESINH RAJPUT	IHO NO 53, PRAJAPATI FALIYU VILL SEVNI, TAL KAMREJ, DISTRICT: SURAT	Construction Equipment	15 TON PICK-N-CARRY C	9825453821
83	G/05/SP2121	CHETNABEN MAHIPATSINH CHAUH	E-39, SHIVDHARA RESIDENCY MORA ICHHAPUR, DISTRICT: SURAT, STATE	Construction Equipment	BACKHOE LOADER	9925100063

S. No	Reg. No.	Owner Name	Current Address	Vehicle Class	Body Type	Mobile No.
1	G/05T13104	AKARAM	214, ASMANAGAR, UN-11 SURAT CHORYASI ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	AGRI. TRACTOR OPEN	9081059213
2	G/05SP3113	JIGAR DEVENDRABHAI PATEL	GF-54, SAINATH ROW HOUSE VI-1 BEHIND UMA MANGAL HALL KAMREJ ,DISTRICT: SURAT ,STATE: GJ	Construction Equipment Vehicle	FULLY BUILT	9824299988
3	G/05T13275	COLOSPESEDIYES&INTERMEDIATE	FLAT NO.C-1 487,SACHIN GIDC TA-CHORYASI ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	OPEN STATION	9825130138
4	G/05CY2333	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
5	G/05CY2358	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
6	G/05SP2353	RADIANT JARI PRIVATE LIMITED	PLOT NO. C-1/B-4321/2,C-1/B-4320/4, C-1/B-4321/4, RADIANT UNIT-1, RD,Fork Lift		NA	9979966589
7	G/05T13229	SURAJ	1153, SALAM BORAD AT/PO. SACHIN TA. SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	AGRI. TRACTOR OPEN	9173310097
8	G/05T13137	VIKRAM	543, MAYAHVANSHI MOHOLLO, ADAJANGAM ADAJAN TA. SURAT CITY ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	AGRI. TRACTOR OPEN	9173191421
9	G/05SP2332	MVK PROJECTS PRIVATE LIMITED	FLAT NO-201, SHANTAM AVENUE TAL. KAMREJ ,DISTRICT: SURAT ,STATE: GJ	Construction Equipment Vehicle	FULLY BUILT	9574485668
10	G/05CY2159	AGNIMAN CORPORATION	PROP. MUKESHKUMAR PYARELAL NIGAMIA HUF, UG/18 AGNIMAN CORPO	Fire Fighting Vehicle	FIRE FIGHTER	9824101441
11	G/05CY2058	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
12	G/05CY2261	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
13	G/05CY2356	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
14	G/05CY2442	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
15	G/05CY2448	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
16	G/05CY2467	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
17	G/05T12979	DINESH	PLOT NO. 18, NEHRU NAGAR AT/PO. KAMREJ TA. KAMREJ ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	AGRI. TRACTOR OPEN	982635131
18	G/05T12548	SALEEM	AT PO : FLAT NO 401, 4TH FLOOR DINATH APARTMENT, RAMPURA TALUKA	Tractor (Commercial)	AGRICULTURE TRACTOR	9909815000
19	G/05T12941	SABHAD DEVRAJ BHALABHAI	155 GOPAL NAGAR AT ANTROLI TA KAMREJ ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	AGRICULTURE TRACTOR	9624017005
20	G/05SP2461	NANDINI CORPORATION	15T FLOOR, B-58 SHREE BANG DARSHAN KRUPA SOCIETY-2 KATARGAM, DI	Construction Equipment Vehicle	BACKHOE LOADER	9909558899
21	G/05SP2133	GOVINDKUMAR NAVGHANBHAI BH	150,GOPAL NAGAR NEAR GHALUDI CHOWKI GOCHAN PARDI ROAD, ANTI	Construction Equipment Vehicle	BACKHOE LOADER	9825177680
22	G/05SP2495	MANISHA DIPAK SISODE	GROUND FLOOR, 50, SAINATH RAW HOUSE VIBHAG 1, B/H UMA MANGAL	Construction Equipment Vehicle	FORKLIFT	9978960666
23	G/05T12089	LALABHAI	AT PO : 74-2, TALAV FALIYU-1 KAMREJ TALUKA : KAMREJ ,DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURE TRACTOR	9887796544
24	G/05T12379	NATHU	PLOT NO-39, GOPAL NAGAR PO. ANTROLI TA. KAMREJ ,DISTRICT: SURAT	Tractor (Commercial)	AGRI. TRACTOR OPEN	9924116182
25	G/05CY1567	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
26	G/05CY1898	GREENLINE MOBILITY SOLUTIONS	SURVEY NO 93 SHANTI PARK VILLAGE MORA TAL CHORYASI DIST SURAT ,DISTRICT: SURAT ,STATE: GJ	Tractor (Commercial)	SIDE WALL TRAILER	9879108019
27	G/05SP2898	GSS CONSTRUCTION	127, OLD FALIYU JUNA DUNGARA PRATHMIK SHALA, KAMREJ ,DISTRICT: SURAT	Construction Equipment Vehicle	RIGID FRAME	9574115011
28	G/05SP2007	VILAY CHANDULAL PATEL	B-151, GUJARAT NAGAR KIM OLPAID ,DISTRICT: SURAT ,STATE: GJ	Crane Mounted Vehicle	HYDROLIC AERIAL PLATF	9825568900
29	G/05SP2179	MARSHAL ELECTRIC COMPANY	133 GOKULDHAM RESIDENCY NANSAD KAMREJ ,DISTRICT: SURAT ,STATE: GJ	Crane Mounted Vehicle	HYDROLIC AERIAL PLATF	9824754890
30	G/05SP2258	DEVENDRA MANUBHAI KACHHAD	28, SAI MILAN ROW HOUSE KAMREJ ,DISTRICT: SURAT ,STATE: GJ	Crane Mounted Vehicle	HYDROLIC AERIAL PLATF	9979529137
31	G/05SP2453	MARSHAL ELECTRICALS	133, GOKULDHAM RESIDENCY NANSAD KAMREJ ,DISTRICT: SURAT ,STATE: GJ	Crane Mounted Vehicle	HYDROLIC AERIAL PLATF	9664570480
32	G/05GV3851	GRAM PANCHAYAT VANSVA	SARPANCH GRAM PANCHAYAT VASVA 262, JAY BHAVANI VAD AKHAL VILL	Tractor (Commercial)	OPEN	9374499222
33	G/05SP2009	BHARATBHAI NAGJIBHAI HIRAPAR	64,SHIVSHAKTI SOCIETY 1 KARGIL CHOWK, PUNAGAM, DISTRICT: SURAT	Tractor (Commercial)	OPEN	9375277111
34	G/05T11993	PRABHUBHAI GORDHANDAS MAHI	A 304 SUN RESIDENCY BEHIND BHUKLA BHAVAN SCHOOL ANAND MAHAL	Tractor (Commercial)	OPEN	9998947422
35	G/05T1870	VADI SAGAR PARESHBHAI	64,AM PARK SOCIETY NEAR KARGIL CHOWK, PUNAGAM SURAT CITY PO	Tractor (Commercial)	OPEN	7600243325
36	G/05T1416	PRAMODBHAI	90, GHOR FALIYA, RAUGARI AT RAUGARI TA CHORYASI DIS SURAT ,DISTRICT: SURAT	Tractor (Commercial)	AGRICULTURAL TRACTOR	7765910828
37	G/05SP2078	KALA TRADING COMPANY	BLOCK NO.23/B/1/PAIKI 1 UNNAMED RD MALGAMA PANCHAYAT OFFICE	Construction Equipment Vehicle	FULLY BUILT	9724439697
38	G/05SP2418	PREM KUMAR LEKHARAI SINGH	1PL 209, Bt. 49 SAI DARSHAN BUNGLOWS VILL: KATHODARA, TAL: OLPAID ,DISTRICT: SURAT	Construction Equipment Vehicle	HYDRAULIC MOBILE CR	9824181130
39	G/05SP2473	KRISHAK BHARATI CO OPERATIVE	1PO-KRISHCO NAGAR SURAT ,DISTRICT: SURAT ,STATE: GJ	Construction Equipment Vehicle	HYDRAULIC MOBILE CR	983449719
40	G/05SP7575	KALIND INFRAPROJECT LIMITED	AT-161,GALLERIA SHOPPING HUB ICCHHAPOR NR SANJEEVKUMAR AUDIT	Construction Equipment Vehicle	BACKHOE LOADER	6351991521
41	G/05T0885	PANKAJ	A/47 SARASWATI SOCIETY, SHYAMDHAM CHOWK, NAINA VARACHHA, SUR	Tractor (Commercial)	AGRICULTURE TRACTOR	9510348414

252	G/05SP2199	SANTCHHAYA CORPORATION LLP	HOUSE NO.6, BLOCK NO.146 BHARVADVAS, TALAV FALIYA TAL.KAMREJ,D	Construction Equipment	VERIGID FRAME	9825878082
253	G/05SP2208	GEETABEN CHIMANBHAI KHER	36 SHIV VATIKA ROW HOUSE CO.OP HOU SOCIETY VILL MAKNA TAL.KAMREJ,D	Construction Equipment	VERIGID FRAME	9825143882
254	G/05SP2210	SANTCHHAYA CORPORATION LLP	HOUSE NO.6, BLOCK NO.146 BHARVADVAS, TALAV FALIYA TAL.KAMREJ,D	Construction Equipment	VERIGID FRAME	9825878082
255	G/05SP2419	SANTCHHAYA CORPORATION LLP	HOUSE NO.6, BLOCK NO.146 BHARVADVAS, TALAV FALIYA TAL.KAMREJ,D	Construction Equipment	VERIGID FRAME	9825878082
256	G/05SP2472	SANTCHHAYA CORPORATION LLP	HOUSE NO.6, BLOCK NO.146 BHARVADVAS, TALAV FALIYA TAL.KAMREJ,D	Construction Equipment	VERIGID FRAME	9825878082
257	G/05SP2497	GEETABEN CHIMANBHAI KHER	36 SHIV VATIKA ROW HOUSE CO.OP HOU SOCIETY VILL MAKNA TAL.KAMREJ,D	Construction Equipment	VERIGID FRAME	9825143882
258	G/05RZ4911	VISHAL DALSUKHBHAI PATEL	44 KARSAN FALIYA AVAS KAVAS TA: CHORYASI ,DISTRICT: SURAT ,STATE: GU	Tractor (Commercial)	OPEN	8126022380
259	G/05RZ4626	AATIF	AT PO : H-252B , RAHAMAT NAGAR LAJPOR TALUKA : CHORYASI ,DISTRICT: TR	Tractor (Commercial)	AGRICULTURE TRACTOR	8755755422
260	G/05SP2020	NR EPC PROJECT PRIVATE LIMITED	PLOT NO.90-91, SUBH IND PARK VILLAGE PARAB, TAL.KAMREJ ,DISTRICT: S	Construction Equipment	VERIGID FRAME	9558159799
261	G/05SP2159	NR EPC PROJECT PRIVATE LIMITED	PLOT NO.90-91, SUBH IND PARK VILLAGE PARAB, TAL.KAMREJ ,DISTRICT: S	Construction Equipment	VERIGID FRAME	9558159799
262	G/05SP2187	NR EPC PROJECT PRIVATE LIMITED	PLOT NO.90-91, SUBH IND PARK VILLAGE PARAB, TAL.KAMREJ ,DISTRICT: S	Construction Equipment	VERIGID FRAME	9558159799
263	G/05SP2201	NR EPC PROJECT PRIVATE LIMITED	PLOT NO.90-91, SUBH IND PARK VILLAGE PARAB, TAL.KAMREJ ,DISTRICT: S	Construction Equipment	VERIGID FRAME	9558159799
264	G/05SP2240	MAHAVIR TECHNOINFRA AND LOGISTICS	SURVEY NO.320/2 NEAR ULTRATECH, RMC PLANT HAZIRA, DAMKA ,DISTRI	Construction Equipment	VERIGID FRAME	8980244499
265	G/05SP2251	PREM KUMAR	P/1-31 BII 287, OM RESIDENCY VTC, MULAD SURAT ,DISTRICT: SURAT ,STATE	Construction Equipment	VERIGID FRAME	9913181714
266	G/05SP2413	NR EPC PROJECT PRIVATE LIMITED	PLOT NO.90-91, SUBH IND PARK VILLAGE PARAB, TAL.KAMREJ ,DISTRICT: S	Construction Equipment	VERIGID FRAME	9558159799
267	G/05SP8384	MUKESHBHAI GOVINDBHAI DHAMI	569, KUMKUM RESIDENCY NEAR VASTU ROW HOUSE TAL.KAMREJ ,DISTRI	Construction Equipment	VERIGID FRAME	9913648472

13.8 Emergency Vehicles & Earth Moving Equipment Facilities Held by

MAH Industries

Sr.	Name Of MahUnit	Name Of Earthmoving Equipment With Quantity	Contact Persons
1	2	3	4
1.	Bharat Petroleum Corp. Ltd.	Car-1	Sagar Hardas - 8888887240
2.	Bharat Petroleum Corp.Ltd - Botteling Plant	Car-1	Mandeep Prasad: 98736 07752
3.	Colourtex Industries Pvt. Ltd., Pandesara, Surat	Bus-2, Truck-2, Dumper-2, JCB-2, Tractor-6, Car-5	Mr. Pankaj Gandhi, 9825098380
4.	Colourtex Industries Pvt. Ltd., Sachin, Surat	Bus-2, Truck-2, Dumper-1, JCB-1, Tractor-2, Car-5	Mr. Pankaj Gandhi, 9825098380
5.	Arcelormittal Nippon Steel India Limited	Jcb – 2, Bus-5, Dumper-3, Tractor-2, Crane-2	RAJESH SHAH 6359975110 Rakesh Trivedi 6357078109
6.	Hazira-Lng Private Ltd.	Bus-4, Car-20	Mr.Rahul Deep Singh (M) 63570 78181
7.	Hindusthan Chemicals Company	Bus-1, Car-4	Satish Patil 9099462420
8.	Hindustan Petroleum Co. Ltd. (Hpcl)	Nil	Anjani Kumar Giri (9866651634)
9.	Indian Oil Corpn. Ltd.	Car-1	1. Sh. Bhagirathi Behera (Chief Terminal Manager) - 9799165282 2. Sh. Vikramraj Tiwari (AM-Ops Safety) – 7879101024
10.	Indian Oil Corpn. Ltd. - Botteling Plant	Car-2	Sh. D V Nanavati, DGM (P), 8980033059, Keshav Swaroop Rao, 7388769885
11.	Krishak Bharati Co-Op.Fertilisers Ltd.	Bus-4, Truck-1, Dumper-1, Crane-3, Car-3	H S Singh 9687650054 Sanjay Shiwankar 8128681102
12.	Navin Florine International	Car-8	Subodh Kumar 9714755221
13.	Nova Dyestuff Ind. Pvt. Ltd.	Car-2	Kamalbhaji Jain 7572921000 Dipak Barodia 9737042832
14.	Ntpc - Kawas Gas Power Project	Bus-4, Car-140	Mr. Mohit Pal (A.O Safety) Phone: 02612877099 Mob – 8602955383
15.	Oil And Natural Gas Corporation Ltd.	Car-2	Mr. V.A.Rao

			(O) (0261) 2875786 (R) (0261) 2875600 (M) 94275 04487
16.	Reliance Industries Ltd.	Bus-6, Truck-3, Dumper-7, JCB-1, Tractor-7 Crane-7, Car- 10	Site Shift Manager 09974823636
17.	Shree SayanVibhagSahakari Khand Udyog Ltd.	JCB-2, Tractor-6, Car-5	Pravinbhai D Patel (MD) 9328968001
18.	Shri Chalthan Vibhag Khand Udyog Sahakari Mandal Ltd	JCB-4, Tractor-8, Car-5	Shri Bipin Chandra Pandey. Managing Director. Mob. No. 90999 04602 Mukund C. Mistry, Safety Officer. Mob. No. 99989 29890
19.	Shri Kamrej Vibhag Khand Udyog Sahkari Mandali Ltd	JCB-1, Tractor-2, Car-4	(1) Keshav Nivrutti Kapse Mo.90999 67616 (2) Harshal Thakre Mo.84080 01202 (3) Prakash R. Patel Mo.97280 76833
20.	Shri MadhiVibhag Khand Udyog SahkariMandali Ltd.	Bus, Truck, JCB, Tractor, Car	Avinash D. Dhekane 9825108931
21.	Shri Mahuva Vibhag Khand Udyog Sahkari Mandali Ltd.	JCB-2, Tractor-4, Car-4	Bhanishbhai Patel (MD) 9979875344, Dipak Patel (Safety Officer) 9979891285
22.	Spectrum Dyes & Chemicals (P) Ltd.	Bus-4, Truck-0-6, Tractor-2, Car-1	Balbir Singh N. Pilanaia, M. No. 9824106565, Sanjeev Mittal, M. No. 9099001400, Pundlik Bhavsar, M. No. 9824119877
23.	Rander Water Works, Surat Municipal Corporation	Nil	Dhaval Patel 8200778075
24.	Katargam Water Works, Surat Municipal Corporation	Nil	Pramod Patel 9814402553
25.	Sarthana Water Works, Surat Municipal Corporation	Nil	Dhaval Atodadria 6359908864
26.	Head Water Works, Varachha, Surat Municipal Corporation	Nil	Rahul Rana 7984548421
27.	Adani Hazira Port Pvt Ltd	Bus-5, Car-7	Mr. Aditya Pandey Mo no. 6358015572
28.	Aether Industries Ltd,	Truck-1, Tractor-1	Parag Detroja - Mo. 07874933433

29.	Hindustan Petroleum Corporation Ltd Bottling Plant	Car-1	Mr. Venkatesh S Singh (9980415026)
30.	Gujarat State Energy Generation Ltd.	Bus-1, Car-2	Mr. Narendra Bhardwaj - 9909905017 Mr. Anuj Garg-9825005127
31.	Chief Fire Officer- Surat Municipal Corporation	Hook Arm Truck-2, Mobile Crain (Rescue Vehi.)-1, Rescue Vehi.-4, Tata Truck-2,	0261-2663049
32.	Exe. Engineer- Surat Municipal Corporation- E.Z.-A	Excavator Loader-7, Heavy Loader-3, Loader-1, Loader With Breaker At-1, Road Roller-5, Robat (Skid Street Loa)-1, Tractor-2	0261-2663049
33.	Exe. Engineer- Surat Municipal Corporation-E.Z.-B	Excavator Loader-7, Heavy Loader-1, Road Roller (Vibratory)-2, Robat (Skid Street Loader)-1, Tractor-2	0261-2663049
34.	Exe. Engineer- Surat Municipal Corporation-N.Z	Excavator Loader-10, Heavy Loader-1, Heavy/ Wheel Loader-1, Loader-2, Road Roller-2, Road Roller (Vibratory)-3, Robat (Skid Street Loader)-2, Tractor-2	0261-2663049
35.	Exe. Engineer- Surat Municipal Corporation-C.Z	Excavator Loader- 6, Loader-1, Road Roller-2, Road Roller (Vibratory)-2, Robat (Skid Street Loader)-2, Tractor-2	0261-2663049
36.	Exe. Engineer- Surat Municipal Corporation-S.Z.	Excavator Loader- 9, Heavy Loader-2 Loader-2, Road Roller-1, Road Roller (Vibratory)-2, Robat (Skid Street Loader)-2, Tractor-2	0261-2663049
37.	Exe. Engineer- Surat Municipal Corporation-W.Z.	Excavator Loader- 7, Heavy Loader-1 Loader-1, Road Roller-2, Road Roller (Vibratory)-2, Robat (Skid Street Loader)-2, Tractor-1	0261-2663049
38.	Exe. Engineer- Surat Municipal Corporation-S.E.Z.	Excavator Loader- 8, Loader-1, Road Roller-1, Road Roller (Vibratory)-3, Robat (Skid Street Loader)-2, Tractor-2	0261-2663049
39.	Exe. Engineer- Surat Municipal Corporation-S.W.Z.	Excavator Loader- 11, , Heavy Loader-1, Loader-1, Road Roller-5, Road Roller (Vibratory)-2, Robat (Skid Street Loader)-2, Tractor-2	0261-2663049
40.	Exe. Engineer- Surat Municipal Corporation-D.D.	Excavator Loader- 1, Tractor-3	0261-2663049
41.	Exe. Engineer- Surat Municipal Corporation-S.W.M.	Excavator Loader- 1, Heavy Loader-2, Loader-2, Road	0261-2663049

		Roller-1, Tracked Excavator – 2.	
42.	Exe. Engineer- Surat Municipal Corporation-P.P.G.	Tractor-3	0261-2663049
43.	Exe. Engineer- Surat Municipal Corporation-H.E.D.	Excavator Loader- 7	0261-2663049
44.	Anupam Rasayan India Ltd. (Unit - 1b), Sachin	Nil	Mahesh Thummar 9099020615
45.	Inox Air Products Pvt. Ltd., Hazira	Nil	Manoj Boriker (M) 93419 34692

13.9 Taluka wise details of available rescue equipments

Sr. No.	Taluka Name	Life Jacket	Life Buoy	Palmist	Small Rope	Big Rope	Tent	Generator
1	Bardoli	49	19	77	10	21	00	1
2	Choryasi	60	60	00	24	00	00	1
3	Kamrej	50	50	00	00	05	00	1
4	Mahuva	90	50	00	13	50	40	1
5	Mandvi	40	35	00	00	30	1 EERR Kit	1
6	Mangrol	230	80	00	00	03	00	--
7	Olpad	95	70	00	90	--	--	1
8	Palsana	72	00	55	00	10	00	0
9	Surat City	533	653	--	50	100	00	17
10	Umarpada	23	10	-	00	00	00	0

Aapda Mitra EERR Kit Giver by GSDMA is allotted to SDM Mandvi.

Personal Floatation Device (Life Jacket made of polyurethane foam): 6, Torch or emergency light (Solar enabled): 12, Safety gloves (Canvas/leather): 12 pairs, 30 mtrs 10/11 mm BOB Nylon rope:6, Lifebuoys: 12, Oars & Rowlocks: 3 Pairs, Paddles: 18, Anchors: 4, Galvanized metal bucket or bailer: 4, Outboard Motor Minimum 30 HP:2, DCP Fire Extinguisher: 4, Emergency Spot light with minimum 12 hours run time: 3, Tool kit (Colt cutter, wire cutter, Pliers, Screw driver set): 3, Axe/hatchet 3kg: 3, Fiberglass Backboard Stretcher: 6, Radio Walkie sets 5 watt: 6, Blankets: 12, Park pickets: 12, First Aid Kit: 6, Twin Pronged Graphel/ Cat Hooks: 6, Throw Bag: 6, GUM Boots: 12 pairs, Safety Goggles: 6, Safety Helmet (Water rafting): 6 , GPS sets: 4, Navigation lights: 4, Maps, Charts and compass: 1 pair, Chain Saw machine: 4, Camping tent (water resistant) + Mosquito Net: 4+4, Inflatable Rescue Boat: 1

List of Boats that can be used for rescuing work

Taluka	Name & Address of Boat Owner	Address	Contact
<i>Chauryashi</i>	Jayeshbhai Naveenbhai Patel,Hajira, Ta. Chorasi, Dist. Surat.		9586172561
<i>Chauryashi</i>	Umeshbhai Babubhai Patel Hajira, Ta. Chorasi, Dist. Surat.		9825547057
<i>Chauryashi</i>	Vijay Chinnabhai Patel Hajira, Ta. Chorasi, Dist. Surat.		9879542070
<i>Chauryashi</i>	Minalbhai Hasmukhbhai Patel Hajira, Ta. Chorasi, Dist. Surat.		9687654408
<i>Chauryashi</i>	Riteshbhai Rasikbhai Patel Hajira, Ta. Chorasi, Dist. Surat.		9904252322
<i>Olpad</i>	Mor, Olpad Mor, Olpad		9638193616
<i>Chauryashi</i>	Champakbhai Devjibhai Patel Rajgari, Ta. Chorasi, Dist.		9825303866
<i>Olpad</i>	Dharmeshbhai Ramanbhai Seller Rander, Ta. Surat City		9824108587
<i>Chauryashi</i>	Parashottamabhaiharibhai Timla Street, Rander, Surat-1		2612773630
<i>Chauryashi</i>	Naranbhai Diabhai Timla Street, Rander, Surat		2612773630
<i>Chauryashi</i>	Rameshbhai Bhanbhai Timla Street, Rander, Surat		2612773630
<i>Chauryashi</i>	Naranbhai Ganeshbhai Timla Street, Rander, Surat		2612773630
<i>Chauryashi</i>	Fakirbhai Haribhai Timla Street, Rander, Surat		2612773630
<i>Chauryashi</i>	Harilalabhai Lalabhai Timla Street, Rander, Surat		2612773630
<i>Olpad</i>	Motu Faliyu, Mor Motu Faliyu, Mor		9825372034
<i>Olpad</i>	Motu Faliyu, Mor Motu Faliyu, Mor		9913950925
<i>Chauryashi</i>	Bipin Chhimkabhai sailor Dumas, Navasatha,		7383610248
<i>Chauryashi</i>	Raman Sukhbhai Khalasi Dumas, Wadwa Street		9998223843
<i>Olpad</i>	Pipariyu Faliyu, Dandi Pipariyu Faliyu, Dandi		9913717613
<i>Chauryashi</i>	Prabhubhai Balubhai sailor Bhimapur, Ta. Chorasi, Dist. Surat		9824976834
<i>Chauryashi</i>	Ishwarbhai Panchayabhai Patel Magdalla, Ta. Chorasi, Dist.		9825270048
<i>Chauryashi</i>	Ishwarbhai Panchayabhai Patel Magdalla, Ta. Chorasi, Dist.		98247634474
<i>Chauryashi</i>	Kalpeshbhai Ishwarbhai Patel Magdalla, Ta. Chorasi, Dist.		98247634474
<i>Olpad</i>	Shekh Mahamad Sidiki Hajimiya, Olpad, Ta. Olpad		9825546017
<i>Olpad</i>	Somjibhai Budhiyabhai Khalasi, Dandi, Ta. Olpad		9913717613
<i>Olpad</i>	Somjibhai Budhiyabhai Khalasi, Dandi, Ta. Olpad		9913717613
<i>Olpad</i>	Ketanbhai Ramjibhai Patel, Mor, Ta. Olpad		9825372034
<i>Olpad</i>	Hirenbhai Jitendrabhai Patel, Mor, Ta. Olpad		9913950925
<i>Olpad</i>	Tarunbhai Valjibhai Patel, Mor, Ta. Olpad		9726669087
<i>Olpad</i>	Hiteshbhai Arvindbhai Patel, Mor, Ta. Olpad		9726669087
<i>Olpad</i>	Tarunkumar Harilal Morkar, Mor, Ta. Olpad		9726669087
<i>Olpad</i>	Jayeshbhai Bhanabhai Patel, Mor, Ta. Olpad		9726669087
<i>Olpad</i>	Bharatbhai Balubhai Rathod, Shirdi, Ta. Olpad		9909241614
<i>Olpad</i>	Kikubhai Ukabhai Rathod, Pardi-Zakhari,Ta.Olpad		9909241614

Olpad	Kishorbhai Dayabhai Rathod, Pardi-Zakhari, Ta.Olpad	9909241614
Olpad	Vinodbhai Thakorbbhai Patel, Pardi-Zakhari, Ta.Olpad	9712785799
Olpad	Kishanbhai Keshavbhai Patel, Mor, TA.Olpad, Dist.Surat	9638193616

Useful boats for flood rescue

ક્રમ	તાલુકાનું નામ	બોટનો પ્રકાર	બોટ કોના હસ્તક છે? ગામનું નામ	બોટની સંખ્યા	સંપર્ક નંબર
૧	માંડવી	ટીનબોટ બિન યાંત્રિક OBM Fiber	બુણધા વિભાગ મત્સ્યોદ્યોગ સહકારી મંડળી લિ.બુણધા	૩૫	૯૮૭૯૭૭૩૫૪૭
૨	માંડવી	ટીનબોટ બિન યાંત્રિક	વીસડાલિયા વિભાગ મત્સ્યોદ્યોગ સહકારી મંડળી ઈસર-જસુભાઈ		૯૭૨૬૧૬૬૬૭૯
૩	માંડવી	ટીનબોટ બિન યાંત્રિક OBM Fiber	કેવડી મત્સ્યોદ્યોગ સહકારી મંડળી કેવડી	૧૦	૯૬૮૭૨૭૬૦૫૦
૪	ચોર્યાસી	IBMયાંત્રિક	ડુમ્મસ-અભિષેકભાઈ	૩૦	૯૮૨૫૬૩૭૫૨૮
૫	ચોર્યાસી	IBMયાંત્રિક	ભીમપોર પ્રભુભાઈ	૨૧	૯૮૨૪૯૭૬૮૩૪
૬	ચોર્યાસી	બિન યાંત્રિક	રાંદેર	૬૦	૦૨૬૧-૨૭૭૩૬૩૦

13.10 Annexure: 5 Medical Facilities at Major Industries

MEDICAL FACILITIES AT MAJOR INDUSTRIES

Sr. No.	Name Of Factories	Medical & Parmedical Staff	No. Of Ambulance	No. Of Beds In Ohc	No. Of Oxygen Cylinders	Telephone Nos. Office
<u>1</u>	<u>Arcelormittal Nippon Steel India Limited (Hrc Division)</u>	<u>3+4</u>	<u>1</u>	<u>3</u>	<u>15</u>	<u>Mr. Ajay Trayambakey (M) 7058995994</u>
<u>2</u>	<u>Kribhco</u>	<u>5+15</u>	<u>3</u>	<u>3</u>	<u>15</u>	<u>Mr. M R Sharma (O) 0261-2802085 (R) 0261-2802671 (M) 99252 40255</u>
<u>3</u>	<u>Reliance Industries Ltd. Hazira</u>	<u>7+25</u>	<u>4</u>	<u>3</u>	<u>35</u>	<u>Mr. Shantanu Date (O) (0261) 3535031</u>

						(M) 99748 23636
4	Larson & Turbo Ltd. Bhatha	1+3	1	2	3	2862160
5	Ongc- Hazira	2+4	1	4	4	Mr. V.A.Rao (O) (0261) 2875786 (R) (0261) 2875600 (M) 94275 04487
6	Navin Fluorine Industries Ltd. Bhestan	1+4	2	5	9	Mr. Subodh Kumar (O) 0261-6715350 (M) 97147 55221
7	Ntpc- Kawas	3+8	2	15	2	Mr. Ajay Humane (O) 02861 2860290 (M) 94204 89248
8	Spectrum Dyes- Palasana	=	1	2	1	Mr. Balbir Singh N. Pilania (O) 98245 89088 (M) 98241 06565

13.11 Resources with MAH units forming part of Mutual Aid Resources

Resources with MAH units forming part of Mutual Aid Resources

SR .	MAH UNIT NAME WITH ADDRESS AND PHONE:- NUMBER	DESIGNATE D CONTACT PERSONS WITH ADDRESS (O, R) AND PHONE:- NUMBERS (O, R, M)	TYPE AND NUMBER OF FIRE TENDERS (WATER, FOAM, MIST TENDERS)	OTHER EQUIPMENTS AND MATERIALS (SCBA, PPE, FIRE EXTINGUISHER S ETC
1	2	3	4	5
1.	Bharat Petroleum Corp. Ltd. P.O. Ichhapore Hazira Surat	Mr. John Thomas (O) (0261)6531655 (R) 0261-2258944 (M) 9958147771	Nil	Co2-6 Dcp-19 Other-10 Scba-2
2.	Bharat Petroleum Corp.Ltd (Hazira Depo) Ichhapore,Dist-Surat	Mr. Ajay Trimbake (M) 70589 95994	Nil	Co2-20 Dcp-120 Other-50, Scba-2
3.	Colourtex Industries Ltd. (Unit-1) Sachin, Surat -394 221. Gujarat, India.	Mr. Pravinchandra Dhansukhlal Kabutarwala (O) (0261) 2890122 (M) 98250 56491	Foam Base Fire Tender -01	Co2-87 Dcp-381 Other-168 Scba-11 Foam-2

4.	Colourtex Industries Pvt. Ltd. (Unit – 2) Survey No. 80 Gidc, Surat Pandesar-394 221 Gujarat	Mr. Pravinchandra Dhansukhlal Kabutarwala (O) (0261) 2890122 (M) 98250 56491	Foam Base Fire Tender -01	Co2-67 Dcp-661 Other-194 Scba-22 Foam-21
5.	Arcelormittal Nippon Steel India Limited (Hrc Division) 27 Kms Hazira-Surat Road Hazira Surat-394 270 Gujarat	Mr. Santosh Mudra (O) (0261)- 6683009 (R) 0261- 6684171 (M) 99099 01999	Water Base Fire Tender- 03	Co2-1462 Dcp-2352 Other-335 Scba-40 Foam-30
6.	Hazira-Lng Private Ltd. Terminal Site,Via-Surat, Hazira 394270	Mr.Rahul Deep Singh (M) 63570 78181	Foam Base Fire Tender -01	Scba – 12 Ffe - 107
7.	Hindusthan Chemicals Company Gidc, Ind. Estate Olpad, Surat-394540 Gujarat	Mr. Anil Kumar Singh (O) 02621- 221681-82-83 (202) (M) 9879163617	Nil	Scba- 26 Ffe - 250 Helmet, Hand Gloves
8.	Hindustan Petroleum Co. Ltd. (Hpcl) (Depot) Ichhapore Choryasi, Surat	Mr. Vishal Sharma (O) 0261 - 6994242 (M) 99899 22333	Nil	Co2-16 Dcp-145 Other-50 Scba-2 Foam-65
9.	Indian Oil Corpn. Ltd. Lpg Bottling Plant, P.O. OngcBhatpore Dist. Surat Gujarat	Mr. Vijay B Bhatkar (M) 9448286697	Nil	Co2-49 Dcp-160 Other-168 Scba-1 Foam-123
10.	Indian Oil Corpn. Ltd. Post Ichhapore (Depot) Surat-394 510 Gujarat	Mr. Rajeev Sharma (M) 97120 17140	Nil	Co2-16 Dcp-117 Other-60, Scba-2
11	Krishak Bharati Co-Op.Fertilisers Ltd. Kavas, P.O. Kribhconagar Hazira, Surat-394515 Gujarat	Mr. M R Sharma (O) 0261- 2802085 (R) 0261- 2802671 (M) 99252 40255	Foam Base Tender-1 Water Base Tender-1 Dcp Base Tender-1 Emergency Tender-1	Co2-316 Dcp-565 Other-50 Scba- 90 Foam – 29
12	Navin Florine International P.O. Bhestan	Mr. Subodh Kumar	Multi Purpose	Co2-198 Dcp-235

	Surat-394210 Gujarat	(O) 0261-6715350 (M) 9714755221	Fire Tender -1	Other-2 Scba-21
13	Nova Dyestuff Industries Pvt. Ltd., 251-G.I.D.C., Pandesara, Surat. Ph.No.2898551/552/553	Mr. Jignesh Mehta (O) (0261) 2898552 (M) 9638690703	Nil	Scba – 2 Ffe - 3
14	Ntpc - Kawas Gas Power Project Po Aditya Nagar Surat-394 516 Gujarat	Mr. Ajay Humane (O) 028612860290 (M) 9420489248	Foam Base Tender-1 Water Base Tender-1 Dcp Base Tender-1	Scba – 8 Dcp-225 Co2-186 Foam-32
15	Oil And Natural Gas Corporation Ltd. Ongc Nagar Surat-394 518, Gujarat	Mr. V.A.Rao (O) (0261) 2875786 (R) (0261) 2875600 (M) 9427504487	Foam Tender-5, Mp Tender-1 Fire Jeep-4	Co2-680 Dcp-1135 Scba-12 Foam-14373 Ltr
16	Reliance Industries Ltd. Mora, Post Bhatha Hazira Road Surat-394 510 Gujarat	Mr. Shantanu Date (O) (0261) 3535031 (M) 9974823636	Foam Tenders – 4	Scba – 308 Dcp-4476 Co2-1274 Rescue Tools Like Cutter & Spreader, Hazmat Fully Encapsulated Chemical Suits,
17	Shree SayanVibhagSahakari Khand Udyog Ltd. Sayan Surat-394 130 Gujarat	Mr. Shrey Pravinchandra Patel (O) (02621) 242149 (M) 9328968010	Nil	Co2-8 Dcp-28
18	Shri ChalthanVibhagkhandudyogSahakar i Mandal Ltd Chalthan Dist. Surat Gujarat	Mr. Kanubhai Patel (O) (02622) 281050 (M) 9099904606	Nil	Co2-6 Dcp-89 Other-10
19	Shri KamrejVibhag Khand Udyog SahkariMandali Ltd At-Navi Pardi,Ta-Kamrej, Dist-Surat	Mr. Anirudha Sharad Patil (O) 02621 - 234260 (M) 88665 44772	Nil	Dcp-9 Co2-48 Foam-2 Other-16
20	Shri MadhiVibhag Khand Udyog SahkariMandali Ltd. At-Madhi,Ta-Bardoli, Dist-Surat	Mr. Niral N. Bhavsar (O) (02622) 241048	Nil	Dcp-7 Co2-38 Foam-2

		(M) 94278 51755		
21	Shri Mahuva Vibhag Khand Udyog Sahkari Mandali Ltd. At-Bamania, Ta-Bardoli, Dist-Surat	Mr. Chetanbhai Mehta (O) (02625) 256846 (M) 99798 75343	Nil	Scba – 1 Ffe(Co2+Dcp) - 95
22	Spectrum Dyes & Chemical Pvt. Ltd. Plot No - 484, 502, 503, And 504. N.H. #8. Palsana - 394315. Surat.	Mr. Balbir Singh N. Pilonia (O) 98245 89088 (M) 98241 06565	Nil	Scba Set – 10 Ffe(Co2+Dcp) – 238
23	Rander Water Works, Surat Municipal Corporation	Mr. Viral N. Mehta (M) 99989 60996	Nil	Scba - 1 Cl2 Emergency Kit – 1 Others Ppe
24	Katargam Water Works, Surat Municipal Corporation	Mr. HEMANT JARIWALA (O) 0261- 2481600 (M) 63599 08813	Nil	Scba - 3 Cl2 Emergency Kit – 2 Others Ppe
25	Sarthana Water Works, Surat Municipal Corporation	Mr. Balbir Singh N. Pilonia (O) 98245 89088 (M) 98241 06565	Nil	Scba - 1 Cl2 Emergency Kit – 2 Others Ppe
26	Head Water Works, Varachha, Surat Municipal Corporation	Mr. Viral N. Mehta (M) 99989 60996	Nil	Scba - 1 Cl2 Emergency Kit – 1 Others Ppe
27	Adani Hazira Port Pvt. Ltd. Hazira, Surat	Mr. HEMANT JARIWALA (O) 0261- 2481600 (M) 63599 08813	Foam Base Fire Tender -2 Water Base Fire Tender -1	Co2-42 Dcp-587 Other-164 Scba-20
28	Aether Industries Ltd Sachin, Surat	Mr. Rohan Desai (O) 0261- 6603000 (M) 98251 28381	Nil	Abc-54 Co2-53 Dcp-10 Foam-58
29	Gujarat State Energy Generation Ltd.	Mr. Santoshn Joshi (O) 079- 23288250 (M) 90999 54243	Nil	Co2-16 Dcp-145 Foam-65

30	Hindustan Petroleum Corporation Ltd (Bottling Plant) Ichaapore, Surat	Mr. Yashpal Kashyap (O) 0261-2308500 (M) 9393634949	Nil	Co2-10 Dcp-128
31	Essar Power Ltd. Hazira, Surat	Occupier Mr.Devdas L. Shetty (O) 261-7146602 Mr.Dharmesh Patel (M) 9879102802	--	--
32	Anupam Rasayan India Ltd. (Unit - 1b), Sachin, Surat	Occupier Mr. Anand Sureshbhai Desai (M) 9825123708 Manager R. K. Patil (M) 9909918023	Nil	Sba-03
33	Inox Air Products Pvt. Ltd., Hazira, Surat	Occupier Mr. Pavan Kumar Jain (M) (0224) 0323851 Manager Manoj Boriker (M) 9341934692	Nil	-

13.12 Annexure:6 Manpower Facilities in the District

(1) Volunteers who are trained by First Aid trainer through GSDMA

No.	Name	Training	Mob.
1.	Dev Kamlesh	First Aid	9099445432
2.	Gothana Kirti .P	First Aid	9879569080
3.	Prajapati Arun.N	First Aid	7367952751
4.	Jitubhai N. Chudhari	First Aid	9925367021
5.	Kulkarni Radhika .R	First Aid	9429268809
6.	Amitbhai K.Chudhari	First Aid	8980938095
7.	Mayurkumar L. Sarateja	First Aid	9624054261
8.	Vijaybhai F.Gamit	First Aid	9879922428
9.	Shweta S. Patel	First Aid	9726733306
10.	Girish V Chudhari	First Aid	9925862216
11.	Vipulbhai K. Katariya	First Aid	9427305810
12.	Niravkumar H.Tndel	First Aid	8511335655
13.	Shashikant D.Chudhari	First Aid	9979448673
14.	Sarasvati R. Chudhari	First Aid	9979353614
15.	Desai Bhavin.G	First Aid	9327506099
16.	Dimpal M.Rana	First Aid	8238220669
17.	Dipaliben P.Patel	First Aid	9427490422
18.	Patel Shveta D	First Aid	8140537699
19.	Patel Shveta V	First Aid	9879317324
20.	Patel Mauri S	First Aid	9825518674
21.	Bhagat Grishma B	First Aid	9510055240
22.	Mehul P. Maheta	First Aid	9727834933
23.	Digesh J Aivala	First Aid	9825848098
24.	Aahir Paresbhai B	First Aid	9925630130
25.	Subhash G. Ghodadara	First Aid	9510422910
26.	Sunil N Chudhari	First Aid	9879206055
27.	Avniben B Soni	First Aid	9904635296
28.	Vilasini M Patel	First Aid	9913762528
29.	Harshbhai Bharavad	First Aid	9925137702
30.	Manishaben Pnchal	First Aid	
31.	Vimalbhai Prabhudas Vinchhi	First Aid	9825475850
32.	Patel Nikunjbhai Chndrkantbhai	First Aid	9687959093
33.	Dharmendrbhai Dalaptbhai Patel	First Aid	9099056449
34.	Patel Ashvinbhai Pratapbhai	First Aid	9909681924
35.	Ratnakarbhai Rameshbhi Mahale	First Aid	9898402278
36.	Kishorbhai Natavarbhai Telar	First Aid	9737234764

37	Parekh Sanjaykumar Kirtibhai	First Aid	9913007736
38	Manishbhai Prhaladbhai Patel	First Aid	9275128210
39	Vinaykant Babubhai Dhuliya	First Aid	
40	Manojkumar Shantilal Lad	First Aid	9904040022
41	Nikunj Labhshnkar Raval	First Aid	9510177375
42	Pankajbhai Parabhubhai Patel	First Aid	9726020955
43	Jayeshbhai M Naiya	First Aid	9427547684
44	Jigarkumar Somabhai Patel	First Aid	9714571505
45	Ankurkumar Dilipbhai Patel	First Aid	8735036844
46	Rajeshkumar Farasubhai Patel	First Aid	
47	Kishorbhai Bhanabhai Patel	First Aid	9904231974
48	Pareshbhai Govindbhai Tendal	First Aid	9924398652
49	Hiteshkumar Bhikubhai Patel	First Aid	8866444651
50	Jinaybhai Ishvarbhai Patel	First Aid	
51	Shaileshbhai Medhajibhai Navadiya	First Aid	
52	Patel Pramodbhai Ramajibhai	First Aid	9979472780
53	Kalpeshbhai Devidas Jagtap	First Aid	
54	Arvindbhai Vasnjibhai Patel	First Aid	
55	Divyeshbhai Lalubhai Patel	First Aid	9724793579
56	Ramanbhai Babarbhai Patel	First Aid	
57	Rakeshbhai Shantilal Joshi	First Aid	9687540181
58	Narendrsinh Ramikabal Yadav	First Aid	
59	Variya Jivarajbhai Ramajibhai	First Aid	9723744723
60	Priteshkumar Premdas Patel	First Aid	9712360677

(2) Volunteers trained for Aapda Mitra

The list is attached separately in annexure.

(3) Swimmers list (fishery swimmers)

ક્રમ	તાલુકાનું નામ	તરવૈયાનું નામ	તરવૈયાનું સરનામું	સંપર્ક
૧	માંડવી	કરસનભાઈ બાપુડાભાઈ ચૌધરી	તરસાડા	૦૨૬૨૩-૨૨૧૧૨૮
૨	માંડવી	અનિલભાઈ લક્ષ્મણભાઈ ચૌધરી	તરસાડા	૦૨૬૨૩-૨૨૧૧૨૮
૩	માંડવી	ઉમકાભાઈ ધનજીભાઈ ચૌધરી	તરસાડા	૦૨૬૨૩-૨૨૧૧૨૮
૪	માંડવી	કરસનભાઈ કીકાભાઈ ચૌધરી	તરસાડા	૦૨૬૨૩-૨૨૧૧૨૮
૫	માંડવી	રેલીયાભાઈ ધનજીભાઈ ચૌધરી	તરસાડા	૦૨૬૨૩-૨૨૧૧૨૮

૬	માંડવી	ચરજીતભાઈ પ્રેમાભાઈ ચૌધરી	નાનીચેર	૦૨૬૨૩-૨૨૧૧૨૮
૭	માંડવી	ગુમાનભાઈ ઢેડાભાઈ ચૌધરી	નાનીચેર	૦૨૬૨૩-૨૨૧૧૨૮
૮	માંડવી	નવીનભાઈ રેશ્માભાઈ ચૌધરી	નાનીચેર	૦૨૬૨૩-૨૨૧૧૨૮
૯	માંડવી	બાબુભાઈ દેવજીભાઈ ચૌધરી	નાનીચેર	૦૨૬૨૩-૨૨૧૧૨૮
૧૦	માંડવી	ફતેસીંગભાઈ રામજીભાઈ ચૌધરી	નાનીચેર	૦૨૬૨૩-૨૨૧૧૨૮
૧૧	ચોર્યાસી	પ્રભુભાઈ બાલુભાઈ ખલાસી	ભીમપોર	૯૮૨૪૯૭૬૮૩૪
૧૨	ચોર્યાસી	અરવિંદભાઈ હાંસજીભાઈ ખલાસી	ભીમપોર	૮૨૩૮૩૧૯૧૨૧
૧૩	ચોર્યાસી	રોહીતભાઈ જયમતભાઈ ખલાસી	ડુમસ	૯૮૨૫૦૧૪૩૯૫
૧૪	ચોર્યાસી	અરવિંદભાઈ જયમતભાઈ ખલાસી	ડુમસ	૯૯૨૫૯૦૪૯૫૦
૧૫	ચોર્યાસી	બીપીનભાઈ છીપકાભાઈ ખલાસી	ડુમસ	૭૩૮૩૬૧૦૨૪૮
૧૬	ચોર્યાસી	વિજયભાઈ ચિમનભાઈ પટેલ	હજીરા	૯૮૭૯૫૪૨૦૭૦
૧૭	ઓલપાડ	કેતનભાઈ રામજીભાઈ પટેલ	મોર	૯૮૨૫૩૭૨૦૩૪
૧૮	ચોર્યાસી	ચંદ્રવદન સુભાષભાઈ ખલાસી	ભીમપોર	૭૦૯૬૧૨૭૪૭૯
૧૯	ચોર્યાસી	દિવ્યન ફકીરભાઈ ખલાસી	ભીમપોર	૮૫૩૦૪૭૩૩૪૦
૨૦	ચોર્યાસી	પરેશભાઈ ગાંડાભાઈ ખલાસી	ભીમપોર	૯૯૦૪૯૪૩૬૩૯
૨૧	ચોર્યાસી	વિમલકુમાર બાબુભાઈ ખલાસી	ભીમપોર	૯૭૧૨૬૩૪૧૮૯
૨૨	ચોર્યાસી	રિતેશભાઈ રામાભાઈ ખલાસી	ડુમસ	૮૨૩૮૯૫૯૭૯૯
૨૩	ચોર્યાસી	ફકીરભાઈ છીમકાભાઈ ખલાસી	ડુમસ	૯૮૨૫૭૮૩૭૧૯
૨૪	ચોર્યાસી	વિવેકભાઈ સિકેશભાઈ ખલાસી	ડુમસ	૯૪૨૮૧૪૦૧૨૮
૨૫	ચોર્યાસી	જયેશભાઈ નવીનભાઈ પટેલ	હજીરા	૯૯૭૪૭૩૧૭૨૭
૨૬	ચોર્યાસી	ભીખુભાઈ ચિમનભાઈ પટેલ	હજીરા	૯૮૨૫૪૮૭૦૦૫
૨૭	ચોર્યાસી	રિતેશભાઈ રસિકભાઈ પટેલ	હજીરા	૯૯૦૪૨૫૨૩૨૨
૨૮	ચોર્યાસી	વિજયભાઈ ચિમનભાઈ પટેલ	હજીરા	૯૮૭૯૫૪૨૦૭૦
૨૯	ચોર્યાસી	કેતનભાઈ રામજીભાઈ પટેલ	હજીરા	૯૮૨૫૩૭૨૦૩૪

તરવૈયા/ડીઝાસ્ટરની તાલીમ મેળવેલા હોમગાર્ડઝ/અધિકારીની યાદી

અનું.	હોમગાર્ડઝ નું નામ	સ નંબર	યુનિટ નું નામ	મોબાઈલ નં.
૧	ડો. પી. વી. શિરોયા (કમાન્ડેન્ટ)	૧	જીલ્લા કચેરી	98250-34591

૨	હાર્દિકભાઈ જશવંતભાઈ પરમાર	૩૯૦	સાયણ	88665-59382
૩	અભિમાનભાઈ ગુલાબસિંહ વસાવા	૪૦૯	સાયણ	74340-03929
૪	અનિલભાઈ છનાભાઈ રાઠોડ	૪૦૫	સાયણ	99251-90714
૫	જયેશભાઈ સામુભાઈ જોગી	૪૦૦	સાયણ	82002-95009
૬	નરેશભાઈ એ.વસાવા	૩૦૯	માગરોલ	99257-01859
૭	સંજયભાઈ. આર.વસાવા	૩૧૧	માગરોલ	99137-19784
૮	વિપુલ આર.ચૌધરી.	૨૯૮	માગરોલ	84692-43496
૯	રોહીતભાઈ.એમ.વસાવા.	૨૧૯	માગરોલ	99137-52701
૧૦	રાકેશ મંગાભાઈ વસાવા	૨૬૯	કોસંબા	97254-64752
૧૧	મુકુંદ ભાદ્રેશભાઈ રાઠોડ	૩૭૮	કોસંબા	88668-64906
૧૨	હસમુખભાઈ જગજીવનભાઈ સુરતી	૨૨૦	કઠોર	82006-72163
૧૩	હિતેન્દ્રભાઈ મગનભાઈ પરમાર	૩૧૩	કઠોર	99258-62250
૧૪	પવનભાઈ રામબદનભાઈ તિવારી	૧૮૭	કઠોર	98243-52622
૧૫	મોહસીન ઈબ્રાહિમ મલેક	૩૬૩	કઠોર	83205-88649
૧૬	કે. એચ. કોટવાળીયા	૩૬૧	માંડવી	98803-46236
૧૭	અશોક એ. કોટવાળીયા	૩૬૫	માંડવી	87581-51929
૧૮	અમિતકુમાર બી. ગામીત	૪૨	માંડવી	97269-99238
૧૯	જયંતીભાઈ જે વસાવા	૫૦૮	માંડવી	99797-13221
૨૦	પ્રવિણકુમાર વરસાળે	૪૭	માંડવી	97270-24018
૨૧	એ. એન. વળવી	૩૬૨	બારડોલી	96240-25690
૨૨	મનોજ બી. પટેલ	૩૬૫	બારડોલી	92546-78044
૨૩	અજય એ. પરમાર	૩૭૦	બારડોલી	81414-43180
૨૪	ત્રિકમ આર. પટેલ	૩૮૧	બારડોલી	97379-64024
૨૫	પંકજ આર. કોંકણી	૩૯૧	બારડોલી	79848-18854
૨૬	પિયુષ યુ. કોંકણી	૩૯૨	બારડોલી	97120-78376
૨૭	અભિજીત એચ. દેવનાથ	૩૭૭	બારડોલી	97379-67311
૨૮	આદર્શ આર. ચૌધરી	૪૦૭	બારડોલી	99257-60936
૨૯	જીનલ એ. કોંકણી	૪૦૯	બારડોલી	95749-60766

૩૦	સંદિપ એફ. માંજલપુરીયા	૪૨૩	બારડોલી	87804-47817
૩૧	કૈવલ એસ. રગડે	૪૩૪	બારડોલી	75675-95891
૩૨	મયુર એસ. મૈસુરીયા	૪૧૭	બારડોલી	88499-31169
૩૩	દિવ્યેશ એસ. રાઠોડ	૪૨૮	બારડોલી	82382-65851
૩૪	આકાશ ડી. રાઠોડ	૪૩૦	બારડોલી	99787-22635
૩૫	કૈલાસ . એમ. કહાર	૪૧	પલસાણા	98795-80276
૩૬	રીયાઝ. એચ. શેખ	૭૩	પલસાણા	98245-97041
૩૭	ફેનિલ .કે . પટેલ	૮૯	પલસાણા	96621-42900
૩૮	દિપેશ. એ . બાવિસ્કર	૧૪૦	પલસાણા	76002-82780
૩૯	વાસુદેવ. વી. મોહિતે	૬૪	પલસાણા	95583-57007
૪૦	ઉમેશભાઈ ઉમેદભાઈ ચૌધરી	૧	મહુવા	70162-42217
૪૧	વિરલભાઈ ગંભીરભાઈ પટેલ	૮	મહુવા	97267-81989
૪૨	સતીષભાઈ ઠાકોરભાઈ નાયકા	૧૭	મહુવા	93271-02111
૪૩	અશ્વિનભાઈ અજુનભાઈ નાયકા	૧૮	મહુવા	63540-20597
૪૪	પટેલ ભવ્યેશ ઠાકોર	૩૨૭	ઓલપાડ	81404-70812
૪૫	વસાવા સતિષ નરેશ	૩૬૨	ઓલપાડ	96381-44869
૪૬	રાઠોડ પ્રવીણ નટવર	૩૬૧	ઓલપાડ	70699-93676
૪૭	સુરતી બિપિન રતિલાલ	૩૭૭	ઓલપાડ	8238202853
૪૮	પટેલ તુષાર ગિરીશ	૩૬૭	ઓલપાડ	70163-62917
૪૯	રાઠોડ ગુણવંત મણીલાલ	૩૭૫	ઓલપાડ	63532-40510
૫૦	પરમાર હાર્દિક ધનસુખ	૩૫૯	ઓલપાડ	74860-72227
૫૧	પટેલ ધર્મેશ જયેશ	૩૭૦	ઓલપાડ	97274-44805
૫૨	પટેલ જીજ્ઞેશ પ્રમોદ	૩૪૯	ઓલપાડ	90992-89318
૫૩	પટેલ રાકેશ ભરત	૩૧૯	ઓલપાડ	96627-36388

List of Fishermen which are swimmers is attached separately in annexure.

13.13 Annexure: 8 Medical and Hospital Management Plan

MANAGEMENT OF MASS CASUALTIES

TRIAGE AND COLOR TAGGING

- Airway
- Breathing
- Circulation

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

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

PRIORITY FOR IN-HOSPITAL CARE

RED TAG (1ST PRIORITY): LIFE THREATENING

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

YELLOW TAG (2ND PRIORITY): URGENT

- A. needs to be treated within 4-6 hours otherwise they will become Unstable
- B. severe burns; burns involving hands, feet or face (excluding Respiratory tract); burns complicated by major soft tissue trauma
- C. hospital admission is required moderate blood loss; back injuries; heat injuries with a normal level of consciousness.

GREEN TAG (3RD PRIORITY): DELAYED

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

BLACK TAG (LAST PRIORITY):

- A. patient is dead
- B. victim is also clinically dead

C. those who die while awaiting treatment and those in cardiac arrest following trauma.

TYPE OF EMERGENCY

The off-site emergency, as identified by the management in their onsite emergency plans, may affect the surrounding people and the environment outside their premises. The emergency can be classified broadly in the following manner;

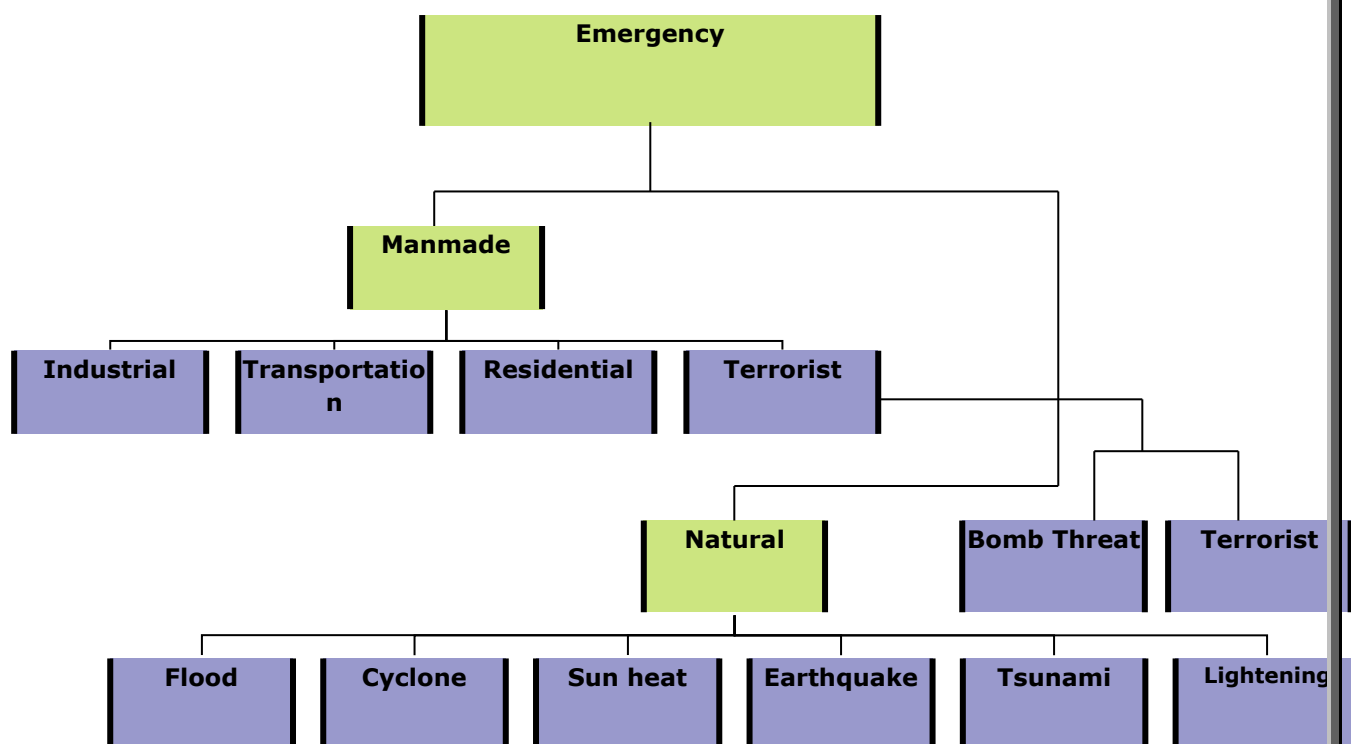
(1) Natural Calamity.

(2) Man made Emergency

Further, Emergency can be divided in the following way, please see next page

13.14 Health infrastructure in the vicinity

No.	PARTICULARS	NO.	CENTRE
1	District Hospital	1	Surat Civil Hospital, majura gate
2	COMMUNITY HEALTH CENTRE	15	Olpad, Sayan, Palsana, Kamrej, Kathor, Bardoli (Sub District Hospital), Kadod, Mandvi (Sub District Hospital), Areth, Mahuva, Anaval, Mangrol, Zankhavav, Kharwasa, Umarpada (Sub District Hospital),
3	PRIMARY HEALTH CENTRE	54	Olpad-7, Palsana-4+1 Kamrej-6 Bardoli-7+1 Mandvi-9+1 Mahuva-7 Mangrol-8+1 Umarpada-4 Choraysi-5
4	MOBILE COMPREHENSIVE	9	all talukas



13.15 Medical & health department

Brief Health Details

No. of District Hospitals: 1 (New Civil Hospital-Surat)

No. of Sub District Hospital: 2 (Mandvi, Bardoli & Umarpada)

No. of CHC: 12

No. of PHC: 57

No. of PHU: 4

No. of Sub Centre: 343

No. of Medical College: 2 (Govt. Medical College-Surat & “SMIMER” Surat Municipal Medical College)

Surat decadal growth rate: 42.2 (2011 Census)

Sex ratio, Surat rural-787, Urban-756 (2011 Census)

Bed occupancy in Surat rural

At CHC level – 506

At PHC level – 309

List of PHC, PHU & Sub Centre (Taluka wise)

Sr. No.	Taluka	No. of PHC	No. UPHC	No. of Sub Centre
1.	Choryasi	5	0	11
2.	Olpad	7	0	36
3.	Palsana	4	1	25
4.	Kamrej	6	0	26
5.	Bardoli	7	1	54
6.	Mandvi	9	1	60
7.	Mangrol	8	1	55
8.	Umarpada	4	0	28
9.	Mahuva	7	0	48
Total	9	57	4	343

PHC wise primary information

Sr. No.	Taluka	Sr. No.	Designation	Vehicle	Inverter	Generator	MBBS	AYUSH
1	Choryasi	1	Suvali	1	1	1	1	1
		2	Mohini	1	1	1	1	1
		3	Vanz	1	1	1	1	1
		4	Kawas	1	1	1	1	0
		5	Lajpor	1	0	0	1	1
2	Olpad	6	Erthan	1	0	1	1	1
		7	Karanj	1	0	1	1	1
		8	Dihen	1	0	1	1	1
		9	Kim	1	0	1	1	0
		10	Mor	1	0	1	1	1
		11	Sandhiyer	1	1	1	1	1
3	Palsana	12	Kudiyana	1	0	0	1	1
		13	Kanav	1	0	1	1	1
		14	Talodara	1	0	1	1	1
		15	Vanesa	1	0	1	2	1
		16	Gangadhara	1	0	1	1	1
4	Kamrej	17	Kadodara UHC	0	0	0	1	0
		18	Sevani	1	0	1	2	1
		19	Orana	1	1	1	2	1
		20	Navi Pardi	1	0	1	1	1
		21	Valan	1	0	1	1	1
		22	Vav	1	0	1	1	1
5	Bardoli	23	Nansad	0	0	0	0	0
		24	Sarbhon	1	1	1	1	1
		25	Umarakh	1	1	1	1	1
		26	Varad	1	0	0	1	1
		27	Kadod	1	0	1	1	0
		28	Uva	1	0	0	1	0
		29	Vanskui	1	0	1	1	1
		30	Vankaner	1	0	0	1	0
		31	Bardoli UHC	0	0	0	1	0
6	Mandvi	32	Sathavav	1	1	1	1	0
		33	Amlidem	1	1	1	1	0
		34	Dadhvada	1	1	1	1	1
		35	Kamlapor	1	0	1	1	0
		36	Boudhan	1	1	1	1	1
		37	Patal	1	1	1	2	0
		38	Tadkeshwar	1	1	1	1	0
		39	Godsamba	1	0	0	1	0
		40	Rataniya	1	0	0	1	0
		41	Mandvi UHC	0	0	0	0	0

7	Mangrol	42	Vankal	1	1	0	1	1
		43	Velachha	1	0	0	1	1
		44	Nani Naroli	1	1	0	1	0
		45	Kosamba	1	1	1	1	1
		46	Simodara	1	1	0	1	1
		47	Lavet	1	1	1	1	1
		48	Verakui	1	1	0	1	1
		49	Palod	1	0	1	1	0
		50	Tarsadi UHC	0	1	0	0	1
8	Umarpada	51	Kevdi	1	1	1	1	0
		52	Vadpada	1	0	1	1	0
		53	Vadi	1	1	1	1	0
		54	Dongripada	1	0	1	1	0
9	Mahuva	55	Valvada	1	0	1	1	0
		56	Karcheliya	1	0	1	1	0
		57	Kharvan	1	0	1	0	0
		58	Naladhara	1	0	1	1	0
		59	Gunasvel	1	0	1	1	1
		60	Vaheval	1	0	1	2	0
		61	Mahuvarya	1	0	1	1	0

List of CHCs

Sr. No.	Name of Taluka	Name of CHCs	Office Contact No.
1	Bardoli	SDH Bardoli	02622-220260
2	Kamrej	Kamrej	02621-252319
3	Mahuva	Mahuva	02625-255750
4	Mahuva	Anaval	02625-244213
5	Mandvi	Mandvi	02623-221163
6	Mandvi	Areth	02623-261307
7	Mangrol	Mangrol	02629-220247
8	Mangrol	Jankhvav	02629-256317
9	Mangrol	Kharwasa	0261-2394826
10	Olpad	Olpad	02621-222048
11	Olpad	Sayan	02621-243413
12	Palsana	Palsana	02622-264232
13	Umarpada	SDH Umarpada	02629-253390
14	Umarpada	Kathor	02621-256166
15	Mandvi	SDH Mandvi	02623-221163

Contact Details of District Level Health officers

Sr. No.	Officer Name	Designation	Office No.	Mobile No.
1.	Dr. Anil B. Patel	CDHO	2430589	9727709501
2.	Dr. Sujit Parmar	ADHO	2430780	9727709504
3.	Dr. P. Y. Shah	RCHO	2430780	9727709506

4	Dr. Kaushik Mehta	I.c. EMO	2430780	9875273898
5.	Dr. Paresh Surti	Epidemiologist	2430780	8758111582

Details of Grant in Aid Hospitals

Sr. No.	Hospital	Address	Phone No.
1.	Sanjivani Hospital	Chalthan, Ta.Palsana	02622-281184
2.	Sardar Smarak Hospital	Bardoli	02622-220089
3.	Damodardas Gandhi Hospital	Kadod, Ta.Bardoli	02622-246242
4.	Rambhai Bhulabhai Hospital	At.Bamani, Ta.Bardoli	02622-241038
5.	Lions Cancer Hospital	Surat	2242862/2240974

Contact Details of Taluka/Block Health Officers

Sr. No.	Name THO	Taluka	Contact No.	Email ID
1.	Dr. Ajay Thakur	Choryasi	9727709523	bho_choryasi@yahoo.com thochoryasi.health.surat@gmail.com
2.	Dr. Chirag Patel	Olpad	9727709527	bho_olpad786@yahoo.com thoolpad.health.surat@gmail.com
3.	Dr. Bhavik Kansagra	Kamrej	9727709539	kamrej_bho@yahoo.com thokamrej.health.surat@gmail.com
4.	Dr. Madhukumar Injamuri	Palsana	9727709534	bho.palsana@yahoo.com thopalsana.health.surat@gmail.com
5.	Dr. Narendra Chaudhari	Mandvi	9727709558	blockhealthmandvi@yahoo.com thomandvi.health.surat@gmail.com
6.	Dr. Pankaj Fanasiya	Bardoli	9727709545	bhobardoli@yahoo.com thobardoli.health.surat@gmail.com
7.	Dr. Manoj Chaudhari	Mahuva	9727709597	thomahuva.health.surat@gmail.com thomahuva.health.surat@gmail.com
8.	Dr. Sameer Chaudhari	Mangrol	9727709566	bho_mangrol@yahoo.com thomangrol.health.surat@gmail.com
9.	Dr. Vipul Barodiya	Umarpada	9925469462	thoumarpada@yahoo.com

13.16 District Rapid Response Team

Designation	RRT Member's Name	Address	Phone Numbers			E-mail id
			Office	Fax No	Mobile No.	
Clinician (Pediatrics)	Dr. Jigisha Patadiya	Govt. Medical collage, Surat		982413 2309	pediagmc@gmail.com	Clinician (Pediatrics)

Clinician (Physician)	Dr.K . N. Bhatt	Govt. Medical collage,Surat	0261-2208387	9825190476	knbsurat@gmail.com	Clinician (Physician)
HOD, Micro	Dr. Sumaiya Mulla	Govt. Medical collage,Surat	0261-2208406	9925276950	microbiologydepartment@yahoo.in	HOD, Micro
Laboratory Officer (Pathologist)	Dr. Mandakini M. Patel	Govt. Medical collage,Surat	0261-2208410	9898381444	rdpatel17@gmail.com	Laboratory Officer (Pathologist)
Public Health Specialist (PSM)	Dr. Harshad Patel	Govt. Medical collage,Surat	0261-2241790	9898733501	psmdept.gmc Surat@gmail.com	Public Health Specialist (PSM)
CDHO	Dr. Anil B Patel	Dist.Panchayat-Surat	0261-2430780	9727709501	dpc_surat@yahoo.co.in cdho.health.surat@gmail.com	CDHO
District Surveillance Officer (EMO)	Dr.Kaushik Mehta	Dist.Panchayat-Surat	0261-2430780	6359900802	Dso.health.surat@gmail.com	District Surveillance Officer (EMO)
Entomologist/ DMO	Dr. Prashant Sailor	Dist.Panchayat-Surat	--	6359911451	dmo.health.surat@gmail.com	Entomologist/ DMO
Epidemiologist (IDSP)	Dr. Paresh Surati	Dist. Panchayat, Surat	0261-2430780	8758111582	Suratidsp2@gmail.com suratidsp@gmail.com	Epidemiologist (IDSP)

Human Resource at Rural Level

Sr.No.	Cadre	Information
1	THO	9
2	Medical Officer(MBBS)	61
3	AYUSH	22
4	MPHS	45
5	FHW	409
6	MPW	349

7	Pharmacist	55
8	Lab Technician	58
9	ASHA	ASHA-1407, Urban ASHA-82, ASHA Faci.-124
10	Anganwadi Worker	1733

13.17 Annexure: 10 Evacuation and Shelter Plan

Temporary Shelter:

Urban Area:

Local Nagar Palika and TEOC, -District Primary and Secondary Education Officer will be Responsible to Shift safely of Affected Population during any kind of Disaster ,In Tapi District mainly use school, collage /community hall ,and Samaj Vadi for shifting of Affected people.Also already it has been identified ward wise by TEOC AND Nagar Palika. The list of Safe Shelter Included in CDMP Plan. Also find list on SDRN Side. At Urban level City Disaster Management Committee and District Administration directly responsible to Evacuate affected people at Safe Place.

Village area:

Mainly village area looking by District and Taluka Panchyat with the support of Liaison officer and Respective mamlatdar. Also already Identified Village wise Safe Shelter at village level, like school/community hall/Samaj vadi ect put Detail List in VDMP Plan. Also find list on SDRN Side. District /Taluka/Village Level - District /Taluka /Village Disaster Management Team directly responsible to Evacuate affected people at Safe Place.

Identified Shelters at Emergency

Taluka Name	Village Name	Name of Shelter
Choryasi	Ichchhapor	Prathamik Shala Sharda Vidhyalay Co. Hall
	Bhatpor	Prathamik Shala Co. Hall, Bhatpor
	Bhatha	Prathamik Shala Bhatha
	Malgama	Prathamik Shala Co. Hall temple
	Bhensaan	Prathamik Shala Bhensaan, Lokmanya hall Rander
	Paali	Prathamik Shala Paali
	Kawas	Prathamik Shala Co. Hall Kawas
	Limla	Kribhco Township
Olpad		All Prathamik Shala & Community Halls
Kamrej		All Prathamik Shala & Community Halls
Palsana	Maakhinga	Prathamik Shala
	Kanaav	Prathamik Shala
	Malekpor	Prathamik Shala
	Baleshwar	Prathamik Shala
	Vanjhodiya	Prathamik Shala
	Amalsadi	Prathamik Shala
	Chalthan	Prathamik Shala
	Kadodara	Prathamik Shala
	Haripura	Prathamik Shala
	Gaangpur	Prathamik Shala
	Baarasadi	Prathamik Shala
	Soyani	Prathamik Shala
Mandvi		All Prathamik Shala & Community Halls
Bardoli	Kadod	Gujarati Kumar and Kanya Shala, Kadod
	Miyawadi	Bachchon ka ghar, Laghumati Sikshan Sanstha
	Isroli	Prathamik Shala, Isroli
	Bamroli	Prathamik Shala, Bamroli
	Kanaai	Prathamik Shala, Kanaai
	Haripura	Prathamik Shala, Haripura
	Uchhrel	Prathamik Shala, Uchhrel
	Astaan	Prathamik Shala, Astaan
	Kharwasa	Prathamik Shala, Kharwasa
	Mowachhi	Prathamik Shala, Mowachhi
	Ishanpor	Community Hall, Ishanpor
	Karachaka	Prathamik Shala, Karachaka
	Pipariya	Prathamik Shala, Pipariya
	Mangroliya	Prathamik Shala & Community Hall
	Khoj	Community Hall
	Pardi kadod	Prathamik Shala, Pardi Kadod
	Waaghecha kadod	Community Hall & Wagheshwar Mahadev Temple
	Timbarwa	Prathamik Shala, Timbarwa

	Rayam	Prathamik Shala, High School & Sahakari Mandali Godown
	Ten	Prathamik Shala & Suruchi Yantra Chhap Shala
	Naandiya	Prathamik Shala, Naandiya
	Nijhar	Prathamik Shala, Community Hall
	Pathradiya	Prathamik Shala, Pathradiya
	Goji	Community Hall
	Tajpor bujrang	Prathamik Shala, Community Hall
	Tarbhon	Prathamik Shala, Community Hall
	Kharad	Prathamik Shala, Kharad
	Chhitra	Prathamik Shala, Chhitra
	Masaad	Prathamik Shala, Community Hall
	Rajwad	Prathamik Shala, Rajwad
	Jharimora	Prathamik Shala, Jharimora
	Vadhvaniya	Prathamik Shala, Vadhvaniya
	Nasuraa	Prathamik Shala, Nasuraa
	Bhuwasan	Prathamik Shala, Bhuwasan
	Jhankharda	Prathamik Shala, Jhankharda
	Ninat	Prathamik Shala, Ninat
	Baabla	Prathamik Shala, Baabla
	Akoti	Prathamik Shala, Akoti
	Palsod	Prathamik Shala, Palsod
	Pardi wagha	Prathamik Shala, Pardi Wagha
	Nogama	Prathamik Shala, Nogama
	Waghecha Sarbhon	Prathamik Shala, Waghecha Sarbhon
	Kunwadiya	Prathamik Shala, Kunwadiya
	Baalda	Prathamik Shala, Baalda
	Bhensudla	Prathamik Shala, Bhensudla
	Waanskui	Prathamik Shala, Waanskui
	Nani bhatlav	Prathamik Shala, Nani Bhatlav
	Baaben	Prathamik Shala, Baaben
	Umrraakh	Prathamik Shala, Moni Bapu Ashram
	Wadoli	Prathamik Shala, Wadoli
	Ancheli	Prathamik Shala, Ancheli
	Singod	Prathamik Shala, Singod
	Junvani	Prathamik Shala, Junvani
	Orgaam	Prathamik Shala, Orgaam
	Baamni	Prathamik Shala, Baamni
	Bhamaiya	Prathamik Shala, Bhamaiya
	Moti falod	Prathamik Shala, Moti Falod
	Ruuva bharampor	Prathamik Shala, Ruuva Bharampor
	Maanekpor	Prathamik Shala, Maannekpor
	Uvaa	Prathamik Shala, Uvaa
	Mota	Prathamik Shala, Mota

	Madhi	Prathamik Shala, Madhi
	Vaankaner sarethi	Prathamik Shala, High School
	Waraad	Prathamik Shala, Waraad
	Panda	Prathamik Shala, Panda
	Suraali	Prathamik Shala, Suraali
	Sarbhon	Prathamik Shala, Sarbhon
	Kantadi	Prathamik Shala, Kantadi
	Saankari	Swami Narayan Rest House, Community Hall
	Sejwad	Prathamik Shala, Sejwad
	Hindoliya	Prathamik Shala, Hindoliya
	Allu	Prathamik Shala, Allu
	Pardi valod	Prathamik Shala, Pardi valod
	Samthan	Prathamik Shala & Paaatidar Samaj Hall
	Aafva khali	Prathamik Shala, Aafva Khali
	Gotasa	Prathamik Shala, Gotasa
	Tajpor khurd	Kedareshwar Mandir, Tajpor Khurd
	Kikvad	Prathamik Shala, Kikvad
	Moti bhatlav	Prathamik Shala, Moti bhatlav
	Dhamdod lumbha	Prathamik Shala, Dhamdod
	Utara	Prathamik Shala, Utara
	Vaghava	Prathamik Shala, Vaghava
Mahuva	Ondach	Ondach Prathamik Shala
	Miyapur	Gram Panchayat
	Aamchak	Aamchak Prathamik Shala
	Shekhpur	Shekhpur Prathamik Shala
	Mahuva	G. H. Bhakt
	Budhleshwar	Budhleshwar Prathamik Shala
	Raanat	Raanat Prathamik Shala
	Amroli	Amroli Prathamik Shala
	Kavitha	Kavitha Prathamik Shala
	Sevasan	Sevasan Prathamik Shala
	Wadiya	Wadiya Prathamik Shala
	Umraa	Prathamik Shala/Gram Panchayat
	Haladwaa	HaladwaPrathamik Shala
	Mahuvariya	Mahuvariya Prathamik Shala
	Vaheval	Vaheval Prathamik Shala
	Walvada	Prathamik Shala/High School
	Kaankariya	Kaankariya Prathamik Shala
	Bhoriya	Bhoriya Prathamik Shala
	Velanpur	Gram Panchayat
	Saamba	Saamba Prathamik Shala
Mangrol		All Prathamik Shala & Community Halls
Umarpada		All Prathamik Shala & Community Halls

13.18 List of important Contacts- Taluka wise

13.19 List of important Contacts- Taluka wise

Taluka Name	Designation	Officer Name	Code	(O)	Mobile	Email ID
City (South)	Prant Officer	V J Bhandari	0261		9725676767	Prant-south-sur@gujarat.gov.in
	Mamlatdar Majura	Pankaj B Modi		2650335	9824969298	01.mammajura@gmail.com
	Mamlatdar Udhana	A.R.Naik		2650335	9978410601	02.mamudhana@gmail.com
	Mamlatdar Puna	S C Vaniya		2465118	9586869733	04.mampuna@gmail.com
City (North)	Prant Officer	N S Savani	0261	2665800	9724992978	15.prantcity@gmail.com
	Mamlatdar Katargam	D V Gamit		2474343	88141250313	03.mamkatargam@gmail.com
	Mamlatdar Adajan	M P Patel		2411416	8980035030	05.mamadajan@gmail.com
	Mamlatdar Abrama	K J Nayak			7623925525	
Choryasi	Prant Officer	Parth Talsaniya	02621	241244	99784-05222 9033463736	16.prantolpad@gmail.com
	Mamlatdar	N S Paritosh	0261	2663800	8368976902	06.mamchorasi@gmail.com
	TDO	Prakash Patel	0261	2669660	7567015932 7567015805	tdo-choryasi@gujarat.gov.in
	Dy Mamlatdar	H B Solanki		221244	9099098004	
Olpad	Prant Officer	Parth Talsaniya	02621	241244	99784-05222 9033463736	16.prantolpad@gmail.com
	Mamlatdar	Hasmukh D Chopda	02621	222444	9825185543	07.mamolpad@gmail.com
	TDO	Hardik Gadhvi	02621	221253	75670-15971	tdo-olpad@gujarat.gov.in
	Dy Mamlatdar	M R Vasava			7874292072	
Mandvi	Prant Officer	Kaushik Jadav	02623	221178	75670-11470	18.prantmandvi@gmail.com
	Mamlatdar	J R Mistry	02623	221023	9978411167	12.mammandvi1@gmail.com
	TDO	Shree Solanki	02623	221024	9898340541	tdo-mandvi@gujarat.gov.in
	Chief Officer	Purvi Patel	02623	221810	9510168116	mandvi_nagarpalika@yahoo.co.in
	Dy Mamlatdar	Sameer P Chaudhary			7016529301	
Mangrol	Prant Officer	Kaushik Jadav	02623	221178	7567011470	18.prantmandvi@gmail.com
	Mamlatdar	A V Chavda	02629	220227	9978445941	10.mammangrol@gmail.com
	TDO	Hardipsinh	02629	220224	7567015852	magaroltdo@yahoo.com
	Chief Officer (Tarsadi)	Nilkanth	02629	232600	6351765411	tarasadi_nagarpalika@yahoo.co.in
	Dy Mamlatdar	Jitendrasinh Bhadoriya	02623	221178	9265290025	
Umarpada	Prant Officer	Kaushik Jadav	02623	221178	7567011470	18.prantmandvi@gmail.com
	Mamlatdar	P R Patel	02629	253399	9825275311	11.mamumarpada@gmail.com
	TDO	Pathan	02629	253484	8347788545	tdo_umarpada@gujarat.gov.in
	Dy Mamlatdar	Kalpesh Kharadi	02623	221178	8200918630	
Palsana	Prant Officer	V K Pipaliya	02621	253400	9904853252	17.prantkamrej@gmail.com
	Mamlatdar	Mukesh Patel	02622	264228	9879393186	09.mampalsana@gmail.com
	TDO	Prakash Patel	02622	264430	75670-15805	tdo-palasana@gujarat.gov.in

	Chief Officer (Kadodara)	Pranavbhai	02622	272008	9586935654	np.kadodara@gmail.com
	Dy Mamlatdar	Jignesh Bhingradiya	02621	253400	9974760173	
Kamarej	Prant Officer	V K Pipaliya	02621	253400	9904853252	17.prantkamrej@gmail.com
	Mamlatdar	R. S. Thakor	02621	252078	9998423440, 9978416111	08.mamkamrej@gmail.com
	TDO	Sachin Patel	02621	255163	7698287854	tdo-kamrej@gujarat.gov.in
	Dy Mamlatdar	Harpalsinh Solanki	02621	253400	9725377980	
Bardoli	Prant Officer	J N Parmar	02622	221124	8347084272	19.prantbardoli@gmail.com
	Mamlatdar	Dinesh Giniya	02622	220024	9925335033	13.mambardoli@gmail.com
	TDO	Vibhuti D Sevak	02622	221618	7567015957	tdo_bardoli@gujarat.gov.in
	Chief Officer	Milanbhai	02622	220085	9925608535	npbardoli@yahoo.co.in
	Dy Mamlatdar	M V Patel	02622	221124	9898413973	
Mahuva	Prant Officer	J N Parmar	02622	221124	8347084272	19.prantbardoli@gmail.com
	Mamlatdar	D A Giniya I.c.	02625	255721	9925335033	14.mammahuvasur@gmail.com
	TDO	P C Mahala	02625	255890	7567015957	tdo-mahuvasur@gujarat.gov.in
	Dy Mamlatdar	Mahesh Patel	02622	221124	9265856787	

Control Rooms

No.	Place	Phone No.	Mobile No.	Fax No.
1	Surat controlroom (DEOC)	0261 2663200		2664800
2	Emergency control room,SMC	0261 2423750-55	9724346021	
3	Fire control room,SMC	0261 2414195-96	9724346022	
4	Police control room	0261 2651840- Rural 0216 2241301- City		2651831
5	Emergency Ambulance	0261 2462600,108		
6	District Epidemic Control	0261 2430589	9727706505	
7	District Panchayat	0261 2425751		
8	Irrigation Circle	0261 2667426/69	9429276205	
9	Surat Canal Division	0261 2668716	9429276205	
10	Ukai Dam	02624-233267	8738637138 9825141643	
11	Kakrapar Dam	02626-222913 02626-231685	9978291903 9879774261	
12	Hathnur dem	02582 277044	09403942566	
13	Causeway Rander	0261-2761365	9724346024	
14	Flood control SMC	0261-2414195	9724346023	
15	E.R PWD Div.-1	0261 2464161-63		
16	R & B E.S Div.	0261 2464161		
17	DGVCL	0261 2506102/	9925211297/310	

		2506200/ 2506112		
18	Torent Power	0261 2413017-7	9904808480	
19	Gujarata Water Supply and Sewerage Board	0261 2782088	9827406800/ 9827406722	
20	Gujarat Gas	0261 2733373	9099940017	2736324
21	Hazira Notified Area	0261 2840208	9879110080	
22	Forestry Dprt.	0261 2733831	9978406074	
23	Regional Transport Office	0261 2977191	7574851669	2977193
24	GSRTC, Surat	0261 2551731	9998953009	
25	Highway Authority	0261 2215167	7567095149	
26	Information Dprt.	0261 2465541	9909237547	
27	Safety and Health Dprt.	0261 2653502	9099657831	2653501
28	VTs, Hajira(GMB)	6586788, 6546788,	9909903748	2977007(F)
29	NDMA	011-26701728,		26701729(F)
30	G'nagar control (SEOC)	079232 51900	079232 51900	

13.20 Emergency Contact Numbers for Nuclear Radiation

N o	Name of the Department	Mobile Number	Landline Number	Fax Number	Email id
1	CEO- GSDMA,	99784 05600, 99784 07003	079232 59502, 079232 59276	079232 59275	ceo.gsdma@gmail.com
2	Relief Commissioner, Revenue Dept.	99784 06491	079232 51509, 079232 51926	079232 51916 079232 51568	revcontrol1@gujarat.gov.in revcontrol2@gujarat.gov.in
3	Principal Secretary, Revenue Dept.	99784 05930	079232 51501, 079232 51503	079232 51591, 079232 51507	secrev@gujarat.gov.in
4	Bhabha Atomic Research Centre (BARC), Mumbai		22-25505050, 22-25592000	22-25505151, 22-25519613	webmaster@barc.gov.in
5	National Disaster Management Authority (NDMA), Delhi		011 26701700, 011 26701728	011 26701729	website@ndma.gov.in
6	Chief Secretary, GOG	96876 11155	079232 50301, 079232 50302	079232 50305	chiefsecretary@gujarat.gov.in
7	Secretary of Hon Chief Minister, GOG	99784 06358	079232 50021 079232 50023	079232 22101	sec2cm@gujarat.gov.in
8	Additional Chief Secretary, Home Dept.	99784 06138	079232 50502 079232 50505	079232 52075	secpers@gujarat.gov.in
9	KAPS, Site Director Kakrapar, Surat	94298 92073	02626 230370	02626 230727	alok@npcil.co.in
	KAPS, main control room Kakrapar, Surat		02626 230400 02626 230444		prcell_kaps@npcil.co.in

10	Secretary of Dep. Of Atomic Energy, New Delhi		02222 862702	02222 048476	chairman@dae.gov.in
11	Nodal officer, Physical Research Laboratory (PRL), Ahmedabad		079263 14000, 079263 02129	079263 14900	root@ prl.res.in
12	Director of PRL	9898586326	079263 08550 079263 14241	079263 00374	director@ prl.res.in
13	PS to Director of PRL	9909950963	079263 14855		pauline@ prl.res.in
14	State Emg. Oper. Centre(SEOC) Director of relief	9978406087	079232 51611, 079232 51612	079232 51912 079232 51916	

13.21 DISTRICT PANCHAYAT

No	DEPARTMENT AGENCY	OFFICE	Fax	MOBILE
1	District Panchayat President	2422118,2412546		
2	District Development Officer	2422160, 2425751	2667453	9978406247
3	Dy. DDO(Revenue)	2425750 to 55	2412543	7567017800
4	Dy. DDO (Development)	2425751 Ex.113		7567017817
5	Dy. DDO (Panchayat)	2425751 Ex.113		7567017783
6	District Agriculture Officer	2425751 Ex.131		9978354901
7	Dy. Director Animal Husbandry	2425751 Ex.155 2544071		9825496545, 9825800968
8	Chief District Health officer	2425751 Ex.136 0261-2413066		9727709501
9	Exe. Engineer (R&B)	2476894		
	Exe. Engineer (Irrigation)	2425751 Ex.146		9426683611
10	Exe. Engineer R&B Panchayat	2472337		9426842467
11	District Primary Education Officer	2595903	2595902	9909971697
12	T.D.O. CHORYASI	0261-2669660		75670 15932
13	T.D.O. OLPAD	02621-221253	292995	7567015971
14	T.D.O. KAMREJ	02621- 252087/255163	255264	76982 87854
15	T.D.O. PALSANA	02622-264224	264123	75670 15805
16	T.D.O. BARDOLI	02622-220046	220701	7567015834
17	T.D.O - Mangrol	02629-220224	253484	7567015852
18	T.D.O – Mandvi	02623-221024	222886	9898340541
19	T.D.O- Umarpada	02629-253484		98983 40541
20	T.D.O. MAHUVA	02625-255722	255749	7567015957

13.22 Nagar Palika Chief Officer

NO.	DEPARTMENT	OFFICE	FAX	MOBILE
1	Bardoli nagar palika	02622-220084/85	223084	9925608535
2	Mandvi nagar palika	02623-221057/221810	222755	9510168116
3	Tarsadi nagar palika	02629-232600	232151, 232592	9586935654
4	Kadodara nagar palika	02622-272008		9586935654

13.23 TELEPHONE DIRECTORY OF SURAT RURAL POLICE

Email ID : sp-sur@gujarat.gov.in Website : spsurat.gujarat.gov.in

Shri Hitesh Joysar, IPS, Superintendent of Police

(O) 0261-2651831, (M) 9978405082, Control Room: 0261-2651832/33, Fax: 0261-2651834

અ. નં.	અનિકારીનું નામ/હોદ્દો	મોબાઇલ નંબર	હાલની ફરજનું સ્થળ/તારીખ
૧	૨	૫	૩
નાયબ પોલીસ અનિક્ષક.			
૧	શ્રી બી.કે.વનાર	99784 43889	સુરત નવભાગ
૨	શ્રી એચ.એલ.રાહોડ	9825222938	બારડોલી નવભાગ
૩	શ્રી આઇ.જે.પટેલ	9978408074	મુખ્ય મથક
૪	શ્રી આર.આર.સરવૈયા	98795 59908	કામરેજ નવભાગ
૫	શ્રી સી.જી.વાડોદરીયા	88664 21470	એસ.સી.એસ.ટી.
નબ.હ.પો.ઈ.			
૧	શ્રી જે.ડી.વાઘેલા	98252 24475	જીલ્લા LIB
૨	શ્રી આર.બી.ભટ્ટોળ	98795 82122	એલસીબી
૩	શ્રી સી.બી.ચૌહાણ	9924676254	LR+ ઉમરપાડાનો ચાજક
૪	શ્રી બી.જી.ઇશરાણી	9825421325	SOG
૫	શ્રી જે.જી.મોડ	9904240599	AHTU

૬	શ્રી બી.ડી.શાહ	73599 93999	કડોદરા
૭	શ્રી વી.એલ.ગાગીયા	9824515111	IUCAW
૮	શ્રી એ.ડી.ચાવડા	8000283507	કામરેજ
૯	શ્રી વી.એ.દેસાઈ	9879725808	બારડોલી ટાઉન
૧૦	શ્રી કે.સી.પારગી	8780275877	મહુવા
૧૧	શ્રી સી.આર.જાદવ	9925045901	ઓલપાડ
૧૨	શ્રી એમ.કે.સ્વામી	9925142124	ફ.મો.
૧૩	શ્રી પી.એચ.જાડેજા	9978505679	બારડોલી ગ્રામ્ય
૧૪	શ્રી પી.એન.જાડેજા	9909027939	કીમ
૧૫	શ્રી એમ.એચ.સોલંકી	9724126123	માંગરોલ
૧૬	સુશ્રી સી.એમ.રાખોનલયા	8128096011	મરહલા
૧૭	શ્રી ડી.એલ.ખાયર	8347710832	કોસંબા
૧૮	શ્રી એ.એસ.ચૌહાણ	9978541961	માંડવી
૧૯	સુશ્રી કે.એ.જાડેજા	8200374630	અંખવાવ
૨૦	શ્રી બી.ડી.ઝીલરીયા	9723542043	પલસાણા
૨૧	શ્રી એમ.આર.શક્તીરીયા	9714928364	એલ.સી.બી.
૨૨	શ્રી આર.એચ.મારુ	9428618375	કામરેજ
૨૩	સુશ્રી પી.ડી.કોટડીયા	8980205740	કામરેજ
૨૪	શ્રી એ.જે.દેસાઈ	9714572922	ઓલપાડ
૨૫	શ્રી એચ.આર.પઢીયાર	9106749147	લીવ રીઝવક
૨૬	શ્રી એલ.જી.રાહોડ	8905959345	એલ.સી.બી.
૨૭	શ્રી એસ.એમ.પટેલ	9824349094	કડોદરા

13.24 Surat City Police Commissioner Office Contact Number

Sr. no.	Name	Office surat code-0261
1	Commissioner of police surat city- Anupamsinh Gehlot	(O) 2244440 (M) 99784-05299
2	Addi.police Commissioner (Traffic and crime)-	(M)99784-04280
3	Addi.police Commissioner Range-1-	(O) 2244446 (M)94270-15535
4	Addi.police Commissioner Range-1-	(O) 2244447 (M)94784-02887
5	Dy.police Commissioner Zone-1-	(O) 2554760 (M)99784-06096
6	Dy.police Commissioner Zone-2-	(O) 2214102 (M)99784-05576
7	Dy.police Commissioner Zone-3-	(M)84690-00000
8	Dy.police Commissioner Zone-4-	(O) 2244101 (M)99784-05052
9	Dy.police Commissioner Zone-5-	(M)99784-06097
10	Dy.police Commissioner Zone-6-	(M)99784-56707
11	Dy.police Commissioner (Crime)	(O) 2436022 (M)98250-63560
12	Dy.police Commissioner(Traffic)-	(O) 2656665 (M)90999-15578 (M)95868-42773
13	Dy.police Commissioner Admin.&(H.Q)-	(O) 2668500 (O)2662400 (M)99784-08288
14	Dy.police Commissioner(Spl.Branch)-	(O) 2241110 (M)70690-52786
15	Asstt, police Commissioner “A” Division-	(O) 2554797 (M)99784-08277
16	Asstt, police Commissioner “B” Division-	(O) 2277154 (M)70690-52772
17	Asstt, police Commissioner “C” Division-	(O) 2420276 (M)99784-08279 (M)98245-46004
18	Asstt, police Commissioner “D” Division-	(O) 2533325 (M)70690-52771
19	Asstt, police Commissioner “E” Division-	(O) 2462570 (M)95124-66488
20	Asstt, police Commissioner “F” Division-	(O) 2462570 (M)95124-66488
21	Asstt, police Commissioner “G” Division-	(M)98257-64007
22	Asstt, police Commissioner “H” Division-	(M)99095-82377
23	Asstt, police Commissioner “I” Division-	(M)97129-65559
24	Asstt, police Commissioner “J” Division-	(M)89805-81648
25	Asstt, police Commissioner “K” Division-	(M)99250-24176
26	Asstt, police Commissioner “L” Division-	(M)98798-70097
27	Asstt, police Commissioner Crime Branch	(O) 2436022
28	Asstt, police Commissioner Head Quarter-	(M)63514-59154

29	Asstt, police Commissioner (Traffic-Admi.&Planinig)-	(M)79904-49015
30	Asstt, police Commissioner Spl Branch-	(O) 2241110 (M)70690-00614
31	Asstt, police Commissioner (Low and Order)-	-
32	Asstt, police Commissioner-Women Cell	(M)98250-39702
33	Asstt, police Commissioner(ControlRoom) & (H.Q)-	2241301-2241302- 2241301-2241304(Fax) (M)99784-08297
34	Asstt, police Commissioner, SC/ST Cell-	Raghunathbhai-70161- 99145, Nimeshbhai- 99098-56701 (M)98250-39702
35	Asstt, police Commissioner, (Traffic Reg-1)-	(O) 2365417 (M)99251-38596
36	Asstt, police Commissioner, (Traffic Reg-2)-	(O) 2535917 (M)97224-21177
37	Asstt, police Commissioner, (Traffic Reg-3)-	(O) 2463380
38	Asstt, police Commissioner, (Traffic Reg-4)-	(O) 2656665 (M)98795-77788
39	Police Inspector Varachha police Station	2544496-2554486
40	Police Inspector Kapodra police Station	2577579
41	Police Inspector Puna police Station	2640500
42	Police Inspector Sarthana police Station	63596-29729
43	Police Inspector Udhna police Station	2277155
44	Police Inspector Limbayat police Station	2277001
45	Police Inspector Dindoli police Station	2279100
46	Police Inspector Mahidharpura police Station	2400163
47	Police Inspector Salabatpura police Station	2324229
48	Police Inspector Katargam police Station	2532535
49	Police Inspector Chowkbazar police Station	2424185
50	Police Inspector Amroli police Station	2497700
51	Police Inspector Lalgate police Station	2402200
52	Police Inspector Athwa police Station	2463827,6359628197
53	Police Inspector Umra police Station	2669428
54	Police Inspector Dumas police Station	2251010
55	Police Inspector Khatodra police Station	2633800
56	Police Inspector Mahila police Station	2669494
57	Police Inspector Pandesara police Station	2890200
58	Police Inspector Sachin police Station	2392258
59	Police Inspector sachin GIDC police Station	2399200
60	Police Inspector Rander police Station	2766152
61	Police Inspector Jahagirpura police Station	2770030
62	Police Inspector Adajan police Station	2732674
63	Police Inspector Pal police Station	6359625877,8401121012
64	Police Inspector Vesu police Station	2997730,3175009,63596- 29599
65	Police Inspector Ichchhapor police Station	2860197
66	Police Inspector Hajira police Station	6359629687
67	Police Inspector Marin police Station	2870404
68	Police Inspector Althan police Station	2992230
69	Police Inspector Bhestan police Station	2991131
70	Police Inspector Cyber Crime	2653510

71	R.PI.H.Q	2669500
72	P.S.I.M.T	2660437
73	Police Inspector D.C.B.	2436024, 6359628826
74	Police Inspector P.C.B	2244450
75	Police Inspector S.O.G	2650118
76	Police Inspector Licence Branch	2241307
78	Dy.A.O	2241308
79	Police Inspector Airport	2904228
80	Police Inspector (Wireless)	2669574
81	Police Inspector (Ciber Cell)	2653510
82	Police Inspector Singanpor police Station	2514457
83	Police Inspector Reader Branch	2241101
84	Police Inspector Computer Cell	2241306

13.25 Surat Fire & Emergency Services

List of Officers & Fire Station In-charge

LIST OF OFFICERS & FIRE STATION, SURAT FIRE & EMERGENCY SERVICES				
SMC CONTROL-026102423751 TO 56,2422285 TO87 EXT.250,97243 46026,97243 46027,9724346034				
FIRE CONTROL-0261-2414139/2414196/2414196.101/102 EXT.324,97243 46022, 90990 04528				
NO.	ZONE WISE FIRE STATION	OFFICERS NAME	DESIGNATION	MOBILE NO.
1	DIVISIONAL HEAD		DY.MU.COMM.	
2	HEAD QUARTER	SHRI PAREEK BASANT K.	CFO	97243 45553
3	CONTROL ROOM	RANA NIRAV D.	I/C SR.W.O.	90998 35686
4	CONTROL ROOM	BHAGAT DIPESH H.	W.O.	63599 09899
5	SOUTH ZONE-A&B	RAJENDRA I. RAJPUT	I/C DY.CFO	9724345688
6	SOUTH ZONE-A&B	PATEL ISHVAR M.	D.O.	9724345694
7	BHESTAN	PATIL HITESH H.	I/C FO	6359909182
8	BHESTAN	PATEL DINESH	S.O.	9601286690
9	BHESTAN	KHALASI NAROTTAM K.	S.O.	9913854747
10	SOUTH EAST ZONE	DHOBI SRUSTI D.	I/C DY.CFO	9724345695
11	SOUTH EAST ZONE	MOD KRISHNA N.	D.O.	8141968382
12	MAN DARWAJA	KHADIYA RANJIT H.	F.O.	9978252506
13	MAN DARWAJA	ISRANI JAYDEEPDAN JASUDAN	S.O.	8000155000
14	MAN DARWAJA	KHALASI ROHIT G.	S.O.	9913751666
15	DINDOLI	GADHAVI FALGUN J.	F.O.	9099986787
16	DINDOLI	TARUN GADHVI	S.O	8200042237
17	DINDOLI	JIGNESHBHAI M. TANDEL	S.O.	9974421084
18	DUMBHAL	SHUKLA MANOJ S.	S.O.	6359909190
19	DUMBHAL	TANDEL PRAVIN M.	S.O.	9662198546
20	CENTRAL ZONE	RAJPUT RAJENDRA I.	I/C DY. CFO	9724345688
21	MUGLISARA	SAPKALE DIPAK G.	I/C FO	6359909185
22	MUGLISARA	BALWANTSINGH R. RAJPUT	S.O.	9054408008
23	GHANCHI SHERI	PATEL MAHESH K.	S.O.	6359909189
24	NAVSARI BAZAR	DESHMUKH RAJESH	S.O.	9662516760

25	NAVSARI BAZAR	GAMIT RASHIK L.	S.O.	9601277018
26	W.Z.(RANDER)	DHOBİ SRUSTI D.	I/C DY. CFO	9724345695
27	ADAJAN	SUTHAR SAMPAT S.	I/C FO	6359909183
28	ADAJAN	DURGESH LONKAR	S.O.	9977171711
29	MORA BHAGAL	SURYAVANSI VASANT G.	S.O.	6359909193
30	MORA BHAGAL	PATEL DHARMESH M.	S.O.	9601277530
31	PALANPOR	MOD KIRTIDAN J.	F.O.	9724345020
32	PALANPOR	SAILOR GIRISH P.	S.O.	9664557022
33	SOUTH WEST ZONE	DHOBİ SRUSTI D.	I/C DY. CFO	9724345695
34	SOUTH WEST ZONE	MISHRA OMPRAKASH S.	D.O.	9724345693
35	MAJURA	DAVE NILESH M.	I/C FO	6359909181
36	MAJURA	PATEL AXAY ROHITBHAI	S.O.	7359773507
37	MAJURA	PATEL PRAGNESH B.	S.O.	9825744512
38	VESU	PATEL PRAKASH N.	S.O.	6359909194
39	VESU	SONWANE MARUTI K.	S.O.	7990032342
40	EAST ZONE -A	PATEL JAGDISH J.	I/C DY. CFO	9724345684
41	PUNA	SOLANKI BECHAR K.	F.O.	9727740996
42	PUNA	PATEL DINUBHAI M.	S.O.	9265449046
43	PUNA	BHUPENDRA RAJ	S.O.	7698052248
44	KAPODRA	GADHAVI SUDHIRBHA B.	S.O.	9714860271
45	KAPODRA	KIRANKUMAR PATEL	I/C S.O.	9724332460
46	EAST ZONE -B	PATEL JAGDISH J.	I/C DY. CFO	9724345684
47	EAST ZONE -B	PATEL HARDIK A.	D.O.	83474 73734
48	MOTA VARACHHA	CHAUHAN DHIRUBHAI B.	S.O.	9638308240
49	MOTA VARACHHA	DHAVAL MOHITE	S.O.	9998790192
50	SARTHANA	VINOD N. ROJIWADIA	I/C F.O.	6359909186
51	SARTHANA	SUNIL CHAUDHARY	I/C S.O.	9601278144
52	NORTH ZONE	PATEL JAGDISH J.	I/C DY. CFO	9724345685
53	NORTH ZONE	GADHAVI HARISH A.	D.O.	9727740995
54	KATARGAM	THAKOR HITESH K.	F.O.	9998600189
55	KATARGAM	SAILOR RAMESH B.	S.O.	6359909195
56	KATARGAM	PATEL DINUBHAI M.	S.O.	9724345774
57	KATARGAM	MOD YASH MAHESHKUMAR	S.O.	9898900101
58	KOSAD	BHAGAVAGAR HARENDRA D.	S.O.	9724296506
59	KOSAD	KANTIBHAI C. BHAGRIYA	S.O.	9662503745
60	DABHOLI	PATEL PRINTESH T.	S.O.	9428580277
61	DABHOLI	BHIMRAV K. VANKHEDE	S.O.	9173940665
62	G.S.D.M.A.-E.R.C. KAMREJ	PATEL HARDIK A.	D.O.	83474 73734
63	KAMREJ	KHALASI BIPINCHANDRA G.	S.O.	9898115604
64	KAMREJ	TANDEL VIJAYKUMAR R.	S.O.	9725783620

WESTERN RAILWAY

NO.	DEPARTMENT AGENCY	OFFICE	RESIDENT	MOBILE
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1	Senior Divisional Engineer			9004499201
2	Assistant Divisional Engineer, Surat			9724099260
3	Senior Sectional Engineer			9724099271

OTHER DEPARTMENT & ORGANIZATION

ST Depot , Surat City Station and Railway Station, Surat

NO.	DEPARTMENT AGENCY	OFFICE	RESIDENT	MOBILE
1	Divisional Controlor, Surat	2424972		9998953098
2	Divisional Mechanical Engineer			9998953099
3	Divisional Traffic Suprintendent Office			9998953100
4	Depot Manager, Surat Rural			9998953103
5	Depot Manager,Bardoli			9998953104
6	Depot Manager,Surat City			9998953105
7	Depot Manager, Mandvi			9998953107
8	Depot Manager, Olpad			9998953108
9	Depot Manager, Songadh			9998953109
10	Depot Manager, Navsari			9998953121
11	Depot Manager, Zagadia			9998953093
12	Surat City Bus Station	0261-2439090		

Airport, Surat

14	Airport Director	0261 2700200/209/295	2700244(F)	9429892020
15	Jt. GM (Second in command)	0261 2700203	2700244(F)	7987532118

Railway Station, Surat

16	Area Manager, Surat		02267641500	9724099903
17	Station Superintendent			9724099942
18	Assistant Station Superintendent	0261-2450144		
19	Linear bus stand	2424972		

Power Supply, Surat

20	Executive director Torrent power ltd	2452441,2400240 2551912	2422171 (F)	
21	Dakshin Guj.Vij.Co.Ltd.-Udhana	2277248		
	South Guj.Vij.Co.Ltd.- Kapodara	2506000/200	2572636 (F)	
22	South Guj.Vij.Co.Ltd.-Rander 1 - 2	rander1:2776122 rander2: 2762670		
23	Regional transport officer RTO	2465188	2464902 fax	9426560574
24	PWD	2464162		
25	Gujarat Gas Company	2736373, 4065000	2736362 (F)	9924004000
26	Chamber Of Commerce	2470083		

13.26 Annexure 13 Industrial Details

Chairman Local Crisis Group

NO.	DEPARTMENT AGENCY	OFFICE
1	SUB DIV. MAGISTRATE (CITY) (CHAIRMAN- LCG – CITY)	0261-2665800
2	SUB DIV. MAGISTRATE (OLPAD) (CHAIRMAN LCG – OLPAD, CHORYASI)	02621-241244
3	SUB DIV. MAGISTRATE (MANDAVI) (CHAIRMAN LCG – MANDAVI, MANGROL & UMARPADA)	02623-221178
4	SUB DIV. MAGISTRATE (BARDOLI) (CHAIRMAN LCG – BARDOLI & MAHUVA)	02623-221178
5	SUB DIV. MAGISTRATE (KAMREJ) (CHAIRMAN LCG – KAMREJ & PALSANA)	02621-253400

13.27 PRINT MEDIA

DEPARTMENT AGENCY	OFFICE	MOBILE
Gujarat Mitra	2599991/90	
Sandesh	2632520	9712401001
Gujarat Samachar	2634645-6	9898988127/8866476 819
Times Of India	2256161/3/4	9712992179
Indian Express	2470374	922780600
Divyabhaskar	2270659/2271990	8401402462
Gujarat Gaurdian	4010203/2636610/11/12 /13	9824111229

OTHER GOVERNMENT DEPARTMENT

NO.	DEPARTMENT AGENCY	OFFICE	RESIDENT	MOBILE
1	Joint director, Industrial Safety & Health surat	2653501/2	2667692	9898630454
2	Regional Officer, GPCB surat	2442696/ 2411192	fax 2429733	9825329663
3	Regional Manager, GIDC, surat	0261-2668948, 2667257(fax)		9879110112
4	Joint Director District Agricultural Officer	2425751	2687137	9979468070, 9427460219
5	District Information Officer surat	2479177 2474423	2669077 2669178	8980042006

6	Chief Civil Defense surat	2464102	2772368	9825118188
7	Regional Transport Office, surat	0261-2979191	2979192	9054074094
8	Ex En. public health & machanical	0261-2687376	2220564	
9	District Supply Officer surat	0261-24655751		9978405223
10	Boiler Inspector surat	0261-2472427		
12	The executive engineer, R& B division (state) Surat 1	0261-2464161-63		9979556721
	R& B division Surat 2	0261-24710977		9825531789
13	Port officer	0261-2423781	2435645	8377058070
14	Port Exe. Engineer	0261-2430533		9925153096
15	Port Traffic Inspector	0261-2430533		9879463627
16	Vessel Traffic Management Solutions (VTMS) Control room hazira			9909903748
17	Assistant Director Fisheries	0261-2462846, 2463946	2462848	8320095167
18	DFO-Forest	0261-2733824-5		8980613505
19	DCF-Forest	0261-2733831		6377425428
20	Circuit House	0261-2669218/178		9979495101

13.28 Contacts of Emergency Response Centre (ERC)

Sr. No.	ERC/PCC Description & Facilities Available	Location	Contact Authority Name, Address & Contact No.
1.	Disaster Management Cell, Collector Office	Collector Office, Surat	(O) 0261-2663200 (M) 9925700732
2.	Police Control Room	Surat City (Comissioner of Police)	(O) 0261-2241301/302/303 (M) 992595000
		Surat Rural (Superintendant of Police)	(O) 0261-2651840 (M) 9537760108
3.	Emergency Control Room, SMC	Surat	B. K. Pareek, SMC Surat (O) 0261-2422285 (M) 9724345553
4.	Fire Control Room, SMC	Surat	B. K. Pareek, SMC Surat (O) 0261-2414195 (M) 9724345508
5.	Emergency Ambulance	Surat	108

13.29 Contacts Of the Surat District Crisis Group

SR	DESIGNATION	DESIGNATION & DEPARTMENT	TELEPHONE NUMBERS			
N O.	SURAT CRISIS GROUP	DEPARTMENT	STD CODE	OFFICE	RESIDENT	MOBILE
1	CHAIR PERSON	DISTRICT MAGISTRATE	261	2652525	2669080	9878406222
		COLLECTOR,SURAT		2655151	2669580	
2	MEMBER	Municipal COMMISSIONER	261	2422240	2258393	9724345000
		SMC,SURAT		2423751 TO 56		
3	MEMBER	POLICE COMMISSIONER	261	2244440	2668555	9978405858
4	MEMBER	Superintendent of Police, Surat	261	265183/132	2665666	9978405082
5	MEMBER & CHAIRPERSON (LCG-1)	SDM,choryasi	261	2464393	2655155	9978405221
6	MEMBER & CHAIRPERSON (LCG-2)	SDM,choryasi	261	2464393	2655155	9978405221
7	MEMBER	Executive engineer	261	2792740	9978441270	9978406648
		public health -gujarat water supply & sewerage board,surat				
8	MEMBER	superintendent Engineer	261	2804491		9879200617
		DGVCL surat		2804499		9879201257
9	MEMBER	Chief district health officer	261	2425751/55	2669801	9727709505
		district panchayat,surat				
10	MEMBER	Medical superintendent new civil hospital surat	261	2244985	6508651	9825555387
		hospital surat		2244456-59		
11	MEMBER	Chief fire officer	261	2422285	ext.226,m.	9724345553

SR	DESIGNATION	DESIGNATION & DEPARTMENT	TELEPHONE NUMBERS			
		Surat municipal corporation surat				
12	MEMBER	Chief civil defense officer surat	261	2464102	2772368	9429090764
		sayajigunj vadodra		2361035		
14	MEMBER	Regional officer gujarat pollution control board surat	261	2442696		9825329663
				2429733		9825088667
15	MEMBER	Regional transport officer surat	261	2465188		7574851669 9173524564
				2464902	2465818	9427686622
16	MEMBER	the executive engineer R & B division(state)	261	2464162	2655077	9824039551
17	MEMBER	joint director district agriculture office	261	2425751	2687137	9427460219
18	MEMBER (IND. REPRESENTATIVE)	mr.kiritbhai gandhi	261	2890122	2244666	9825056865
19	MEMBER-EXPERT	mr.d.m.reddy vp reliance	261	4135069	4137249	9898876565
20	MEMBER-EXPERT	dr.a.v.mevara cmo reliance	261	2835070	4137432	9998011550
21	MEMBER-EXPERT	dr.pankaj desai (msc,phd) colourtex ind. Ltd.	261	2890122	2650027	9825057933
22	MEMBER-EXPERT	shri p murugesan dgm gail hazira	261	2840039	6581569	9925036510
23	MEMBER	shri naishadh desai trade union representative	261	2424767		
				2426017		9825113887
24	MEMBER SECRETARY	dy.director indutrial safety & health	261	2473501	2650085, 2667692	9825058741

13.30 Evacuation Information – Sheltering (In case of Chemical Accident)

Sr. No.	Evacuation Location	Area	Capacity (No. of People)	Contact Authority Name with Address & Phone No.
1.	Dhamanwala Complex, G.I.D.C., Pandesara, Surat		100 people	Mr. Ramanbhai (O) Pandesara Association (O) 0261-2899205

			(M) 9825804697
2.	D. B. High School ITI Palsana Gayatri Mandir Hall Bhatt Eng. Medium School Poly Tech. College Sanskar Vidhya Sankul	2500 500 300 1000 1000 2500	Mr. Balbirsingh Pilnia Spectrum Dyes & Chemical Pvt. Ltd. Plots, No.-484, 502, 503, 504 N.H. #8, Palsana-394315, Surat, (O) 2622-264259, (R) 02622-264162,(M) 09824106565
3.	Laxmiben Dahyabhai High School, Station Road, Sachin	1000	Principal (O) 2392221/2395836
4.	Udhyog Bharati School, GIDC, Pandesara	200	Principal (O) 0261-2893469
5.	R. N. Naik High School, Ranchhod Nagar, Udhna	1000	Principal (O) 0261-2272970
6.	HCC Housing Colony, 1.2 KM South Side	1000	02621-221682
7.	School Building In. Mahadev Shashtri Mahavidhya Bhavan, 1 KM Olpad	1000	02621-221214 02621-320129
8.	Shree Vivekanand College of Commerce	1000	0261-2915488 0261-3295488
9.	R. V. Patel College of Commerce	1500	0261-2918222 0261-2914182
10.	J. B. Dharukawala Arts & J. B. Gabani Commerce College	5000	0261-2573802 0261-2571103

13.31 Details Of Chemicals Properties, Fire Fighting Agents, Antidotes,

First Aid & Medical Treatment

Sr No	Name Of Chemical	Hazard Characteristics	Fire Fighting Agent	Antidote / First Aid / Medical Treatment
1	Acephate Anilo-phose Ethion Phorate Quinal-phos	Non flammable	Use DCP, foam if exposed to fire.	Atropine sulphate in dose 2 – 4 mg for adult, 2 pam 1000 – 2000 mg / im.
2	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.
3	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 amyl nitrile ampoule in a cloth and hold it under the nose for 15 seconds in every minute. Do not interrupt artificial respiration during this process.
4	Alachor Carbenda- zim Thiophan ate – M	Non flammable	Use DCP, foam is exposed to fire	Inject 1 gm of Eralidioxime chloride IV. Do not induce vomiting if the injected poison is principally a hydrocarbon solvent.
5.	Allethrin Cyperm- ethrin Fevalrate	Toxic	Use DCP, foam is exposed to fire	The treatment is symptomatic.
6.	Alumi- nium Phosphat e	Non flamm-able	Use DCP, foam is exposed to fire	Injection copper sulphate 0.25 gm.
7.	Ammoni a	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 vapour is recommended. If substance has gone in eyes, wash with plenty of water for 15 minutes To relieve restlessness, ingestion morphine 15mg to relieve Dyspnoea, Oxygen inhalation.
8.	Ammoni a 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.
9.	Ammo- niam Carbonat e	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.
10.	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 is methylene blue. Incase of eye contact flush with plenty of water for 15 minutes. Remove wet clothes and wash affected area with plenty of water.

11.	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. Chronic exposure may lead to leukemia. In case of eye contact flush with plenty of water for 15 minutes. Remove wet clothes and wash affected area with plenty of water.
12.	Butadiene	Flammable, Explosive	DCP, Water	First aid.
13.	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.
14.	Carbon Dioxide	Asphyxiant	Non-flammable	It is simple asphyxiant and can cause oxygen deficiency in confined space / non ventilated areas. Respiratory protection is required.
15	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 heart 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.
16	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
17.	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.
18.	Coal	Flammable	Dry chemical powder, water supply	Incomplete combustion may produce CO, sulphur dioxide, hence respiratory protection may be required to fight the fire.
19.	Copper Compounds	-	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.
20.	Di Nitro Toluene	Flammable , Explosive	Use plenty of water to cool fire exposed containers. Exposed fire	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. In case of 'eye contact flush with

			fighter must wear positive self contained breathing apparatus. Foam and dry chemical powder and carbon dioxide can be used.	plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
21	Ethylene Oxide	Flammable , Carcinogen	Use DCP	Remove victim to fresh air. If there is a difficulty breathing, give oxygen. Do not induce vomiting. Obtain medical treatment urgently.
22	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.
23	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.
24	Hexa-conazole Propi-conazole	Non flamm-able	Use DCP, foam is exposed to fire	There is no specific antidotes and treats the victim symptomatically.
25	High Speed Diesel	Flammable	Dry chemical powder, foam	- do -
26	Hydro-chloric Acid	Corrosive	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, 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.
27	Hydrogen	Flammable , Explosive	Dry chemical powder, halon. Let fire burn under control. Stop flow of gas.	It is simple asphyxiant and can cause oxygen deficiency in confined space / non ventilated areas. Move victim to the fresh air and apply resuscitation methods.
28	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.

29	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.
30	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.
31	Isopro-turon	Non flamm-able	Use DCP, foam is exposed to fire	Supportive treatment.
32	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.
33	Mancozeb Thiram	Non flammable	Use DCP, foam is exposed to fire	Low toxicity, no specific treatment.
34	Metaoluene 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.
35	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.
36	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.
37	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.
38	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 urgently.
39	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 surveillance for 48 hours. Consider administration of multiple metered doses of topical steroid by inhalation and or upto 30 mg / kg of methyl prednisolone. Incase of eye, contact immediately, refer to ophthalmologist.
40	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 steroid aerosol by inhalation and or upto 30 mg / kg of methyl prednisolone. Incase of eye, contact immediately, refer to ophthalmologist.
41	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.
42	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.

43	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.
44	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.
45	Nitric Oxide	Corrosive, Toxic	Non flammable	Remove the victim to fresh air. If 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 cardia 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.
46	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. Incase of eye contact flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
47	Nitrogen	Asphyxiate	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If hearts beats are absent, give external cardia compression. Treat for frostbite with lukewarm water.
48	Nitrogen Dioxide	Corrosive, Toxic	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. Enforce complete rest for 24 to 48 hours. Incase of high exposure keep patient under medical observation for atleast 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.
49.	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.
50	Oxygen	-	Non flammable	Inhalation of 100 % oxygen can cause nausea, dizziness, irritation of lungs, pulmonary edema, pneumonia and collapse. Liquid oxygen will cause frostbite.
51	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. Incase of eye contact, flush with plenty of water for about 15 minutes. Remove wet clothes and wash affected area with plenty of water.
52	Potassium Hydroxide	Corrosive Toxic	Non flammable	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. Incase of eye contact immediately refer for opt homological opinion. Treat skin burns conventionally.
53	Potassium Methoxide	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. Baking soda in glass of water should be given.
54	Propionic Acid	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 & soap.
55	Propane	Flammable, Explosive	DCP, Water	First aid.
56	Propylene	Flammable, Explosive	DCP, Water	First aid.
57	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. In case of eye contact, flush with plenty of water for 15 minutes.
58	Sodium Hydroxide	Corrosive, Toxic	Non flammable	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 water & soap.
59	Styrene Monomer	Flammable	DCP, Foam compound	-
60	Sulphur Dioxide	Corrosive, Toxic	Non flammable	Remove the victim to fresh air. If there is a difficulty in breathing, give oxygen. If heartbeats are absent, give external cardiac compression. Atrophic rhinitis and pharyngitis may be treated by inhalation of 5% solution of sodium chloride, followed by inhalation of 5% solution of sodium chloride, followed by inhalation of vitamin A. In case of eye contact, flush with 2% sodium bicarbonate solution, drops of 2 to 3 % phenedrine should be instilled in the nose.
61	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 the nearby area.	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 15 minutes. Remove wet clothes and wash affected area with plenty of water.
62	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. 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.
63	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 Isocyanate is very toxic if inhaled. In case of pulmonary edema. TLV of TDI vapor is very low i.e. 0.0005 ppm. If splashed on skin, increases sensitization of skin tissue. 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.
64	Trichloro Acetyl Chloride	Corrosive, Toxic	Foam dry chemical powder, carbon dioxide.	It is very corrosive liquid. Exposure 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.
65	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.

13.32 Emergency Resources – Antidote Suppliers

Sr. No.	Toxic Chemicals Handled in District (ESP. in MAH Units)	Antidotes required	Antidote Supplier* Name with Address & Ph. Nos of Contact Persons	Quantity of Antidotes Available
1	Ammonia	0.4% Benzocain for eyes	Local Chemists	
2	Chlorine	Derrifyline Dexona, CP Malate, Milk of Meghnesiya	Local Chemists	
3	Hydrogen Chloride	Milk of Meghnesiya	Local Chemists Yash Medical Stores, Ground floor, Yashkamal Apartment, Near Jivanjyot Cinema, Udhana, Surat-394210, (O)-6959264	
4	Hydrogen Fluoride	INJ Cal Gluconate	Maheshbhai Hiralaln Chemist, Opp. Surat General Hospital (M)-9825338442 Navin Fluorine, Bhestan, Surat	150 Ampule
5	Oleum (Sulphur Trioxide)	Milk of Meghnesiya	Local Chemists	
6	Acrilonitrile/ Sodium/ Potassium Cyanide	Cynide Antidote Kit	Sarvodaya Instruments, Sarvodaya Nagar, SPS road, Bhandup, Mumbai-78, (O)-25765195 (M)-09869228851	
7		Oxygen Administration Facility	Ashok Jyot Oxygen, Udhna, Road No. 9, (O)-0261-2278760	
8		Cyanides Antidote Kit	M/S. Troikaa Pharmaceuticals Ltd. THOL-382728 (Gujarat)	
9	ETHANOL	THIAMINE - HYPOGLYCEMIA -	ALL GOVT. HOSPITALS ALL MEDICAL STORES	

		HYPOTHERMIA - HEMODIALYSIS -		
10	Methanol	Fomepizole, Leucovorin/Folic Acid	All Govt. Hospitals All Medical Stores	
11	Benzene, Toluene, Xylene	Diazepam 10 Mg I/V Move The Person To Fresh Air. Give Oxygen	All Govt. Hospitals All Medical Stores	
12	Formaldehyde (Formalin)	Milk Of Meghnesiya	Local Chemist	

13.33 Tide Table

The tide table is attached separately with this document

13.34 Annexure 14 Dos & 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 kachha 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-Kachchh 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 & 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 in case a fire breaks 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 unburst 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 be known 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 residence only 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 connections like gas, electricity, telephone, drainage, etc.
- Beware of the various insects or poisonous snakes that may have been dragged inside 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, or electric equipment like motor pump etc. Check whether any inflammable or explosive item has not entered along with the floodwater.
- Switch off the main electric supply, if any damage is noticed to the electric equipment.
- If you find any breakage in the drainage system stop using latrines and do not use tap 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 that damage to infrastructure can be minimized.
- Check gas leakage which can be known by smell of gas or by hearing the sound of leakage; 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 the instruction. Do not follow any shortcut for rescue work.
- Do not try to leave the safe shelter to go back home until the local officials declare normalcy after flood and instruction to return home are not given.

Tsunami:

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

Following safety measures need to be learnt before, during and after the occurrence 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

Borewell Safety:

MEASURES BEFORE BORE WELL INCIDENT

Do's:

Before

- The owner of the land/premises, before taking any steps for construction bore well/tube well must inform in writing at least 15 days in advance to the concerned authorities in the area.
- Registration of all the drilling agencies, viz., Govt./Semi Govt./Private etc. should be mandatory with the district administration or Statutory Authority wherever applicable.
- Erection of signboard at the time of construction near the well is mandatory. The following details should be included on the signboard:-(a) Complete address of the drilling agency at the time of construction/rehabilitation of well. (b) Complete address of the user agency/owner of the well.
- Erection of barbed wire fencing or any other suitable barrier around the well during construction.
- Construction of cement/concrete platform measuring 0.50x0.50x0.60 meter (0.30 meter above ground level and 0.30 meter below ground level) around the well casing.

- Capping of well assembly by welding steel plate or by providing a strong cap to be fixed to the casing pipe with bolts and nuts.
- In case of pump repair, the tube well should not be left uncovered.
- Filling of mud pits and channels after completion of works.
- Filling up abandoned bore wells by clay/sand/boulders/pebbles/drill cuttings etc. from bottom to ground level.
- On completion of the drilling operations at a particular location, the ground conditions are to be restored as before the start of drilling.
- District Collector should be empowered to verify that the above guidelines are being followed and proper monitoring check about the status of boreholes/tube wells are being taken care through the concerned State/Central Government agencies.
- District/Block/Village wise status of bore wells/tube wells drilled. In the rural areas monitoring of these should be done through village Sarpanch and the Executive from the Agriculture Department. In case of urban areas, the monitoring should be done through Junior Engineer and the Executive from the concerned Department of Ground Water or Public Health or Municipal Corporation.
- If a bore well/tube well is 'Abandoned' at any stage, a certificate from the concerned department of Ground Water/Public health/Municipal Corporation/Private contractor must be obtained by these agencies.
- Information on all such data on the above are to be maintained in the District Collector/Block Development Office of the State.

After

- Secure the scene by cordoning the bore well to avoid any unwanted objects falling into the bore well and causing harm to the child and thus hamper the rescuing efforts.
- Cordon the affected area and control unnecessary movements/crowd gathering near the bore well.
- Try to stabilize the victim, if possible, with the help of rope.
- Make arrangements for supplying of oxygen to the child with the help of pipe.
- Arrangement of sufficient lights in the area for the night operation.
- Immediately contact the nearby NDRF Unit.
- As per the direction of NDRF unit, start digging earth vertically and parallel to the depth of bore well at the sufficient distance from the bore well or as directed by the NDRF.
- Keep motivating the victim by regular talking of parents or relatives.
- District medical officer should be made aware about the compartment compression syndrome and action to be taken in such cases.

Don'ts

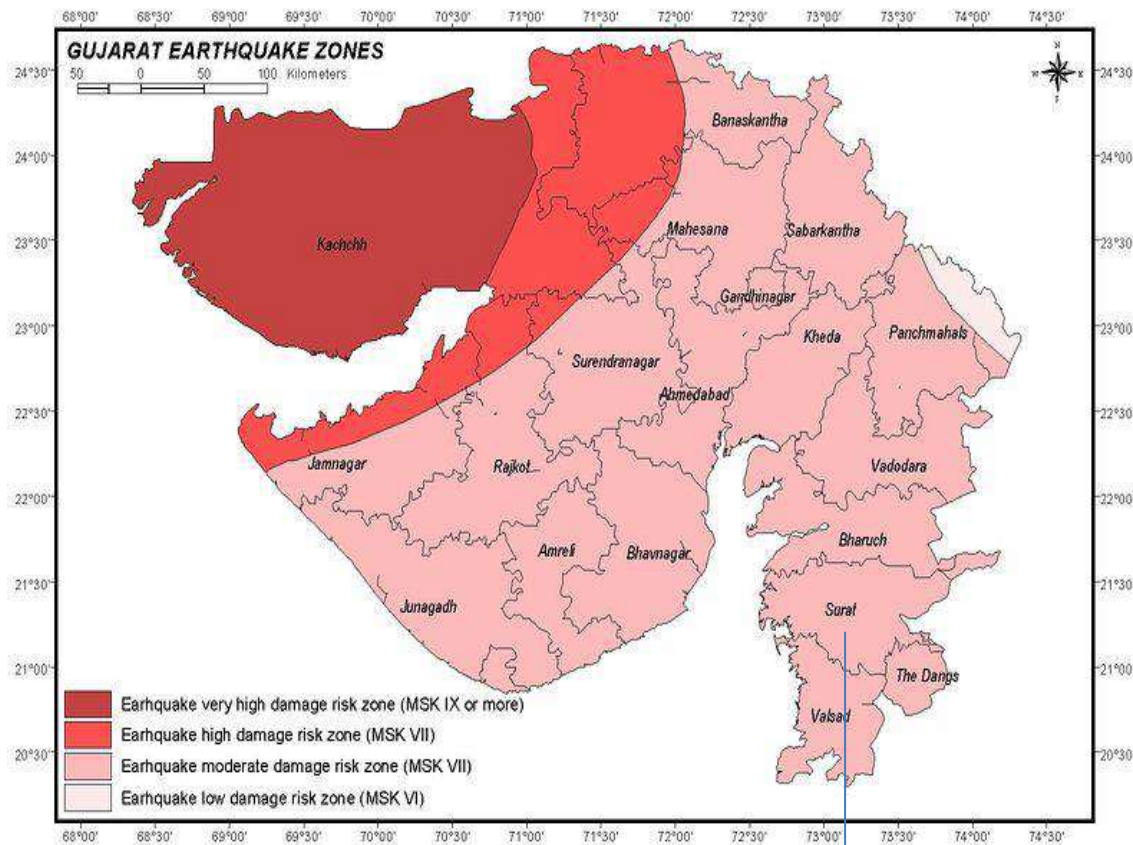
- Don't leave the tube well/bore well uncovered after repair/daily work done.
- Do not throw any food article or pour water in the Bore well.
- Do not allow underground water seepage in bore well.
- Do not allow heavy machines to work at full power to avoid heavy vibration which may result in loosening of surrounding soils and collapse of the bore well.
- Do not allow crowd to gather around the incident site.

14 Various Maps of Surat District

Hazard Maps

Map Showing Gujarat Earthquake Zones

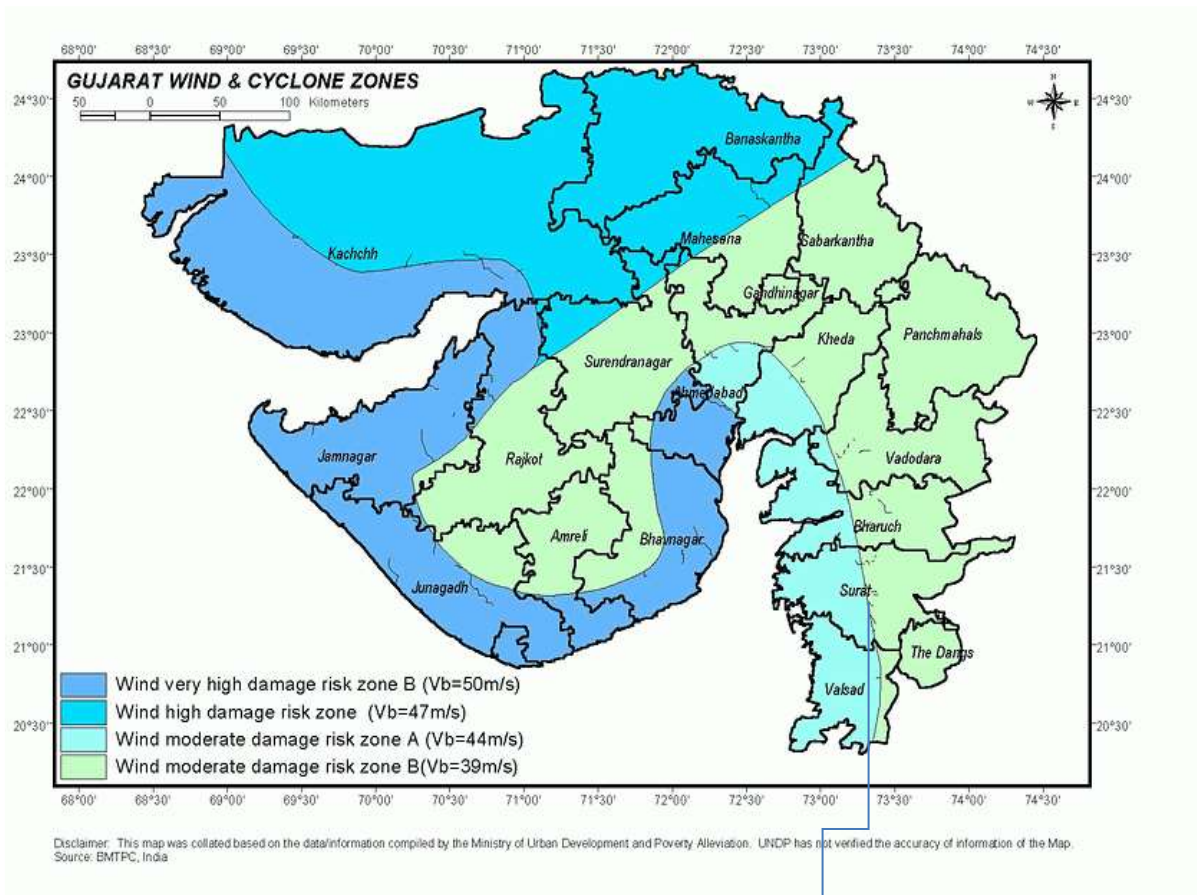
Surat District come in Zone III



Disclaimer: This map was collated based on the data/information compiled by the Ministry of Urban Development and Poverty Alleviation. UNDP has not verified the accuracy of information of the Map. Source: BMTPC, India

↓
Surat District

Map Showing Gujarat Wind and Cyclone Zones Tapi District Costal area come Zone B (vb=39m/s)



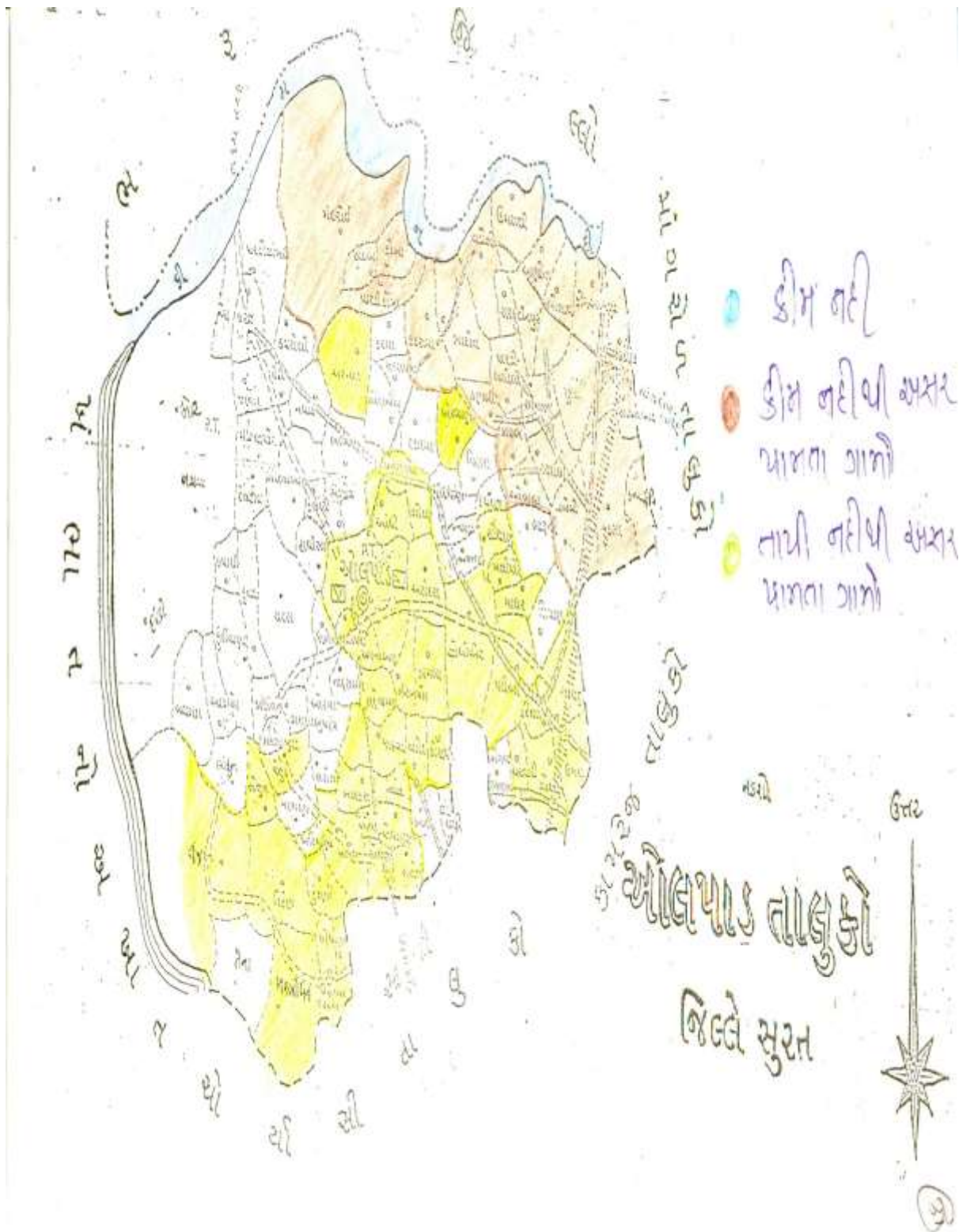
Anuppur District

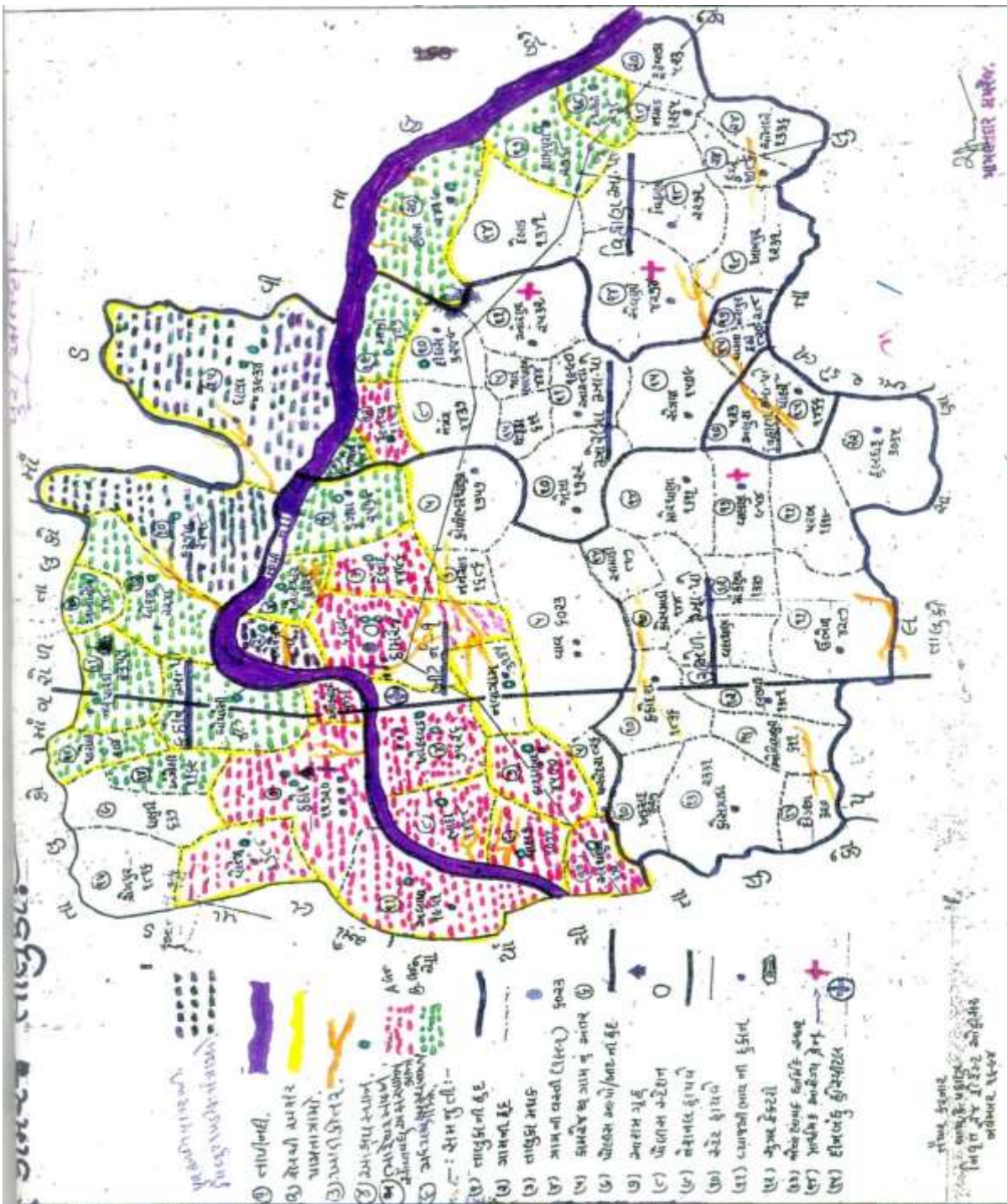
आनूपुर जिला

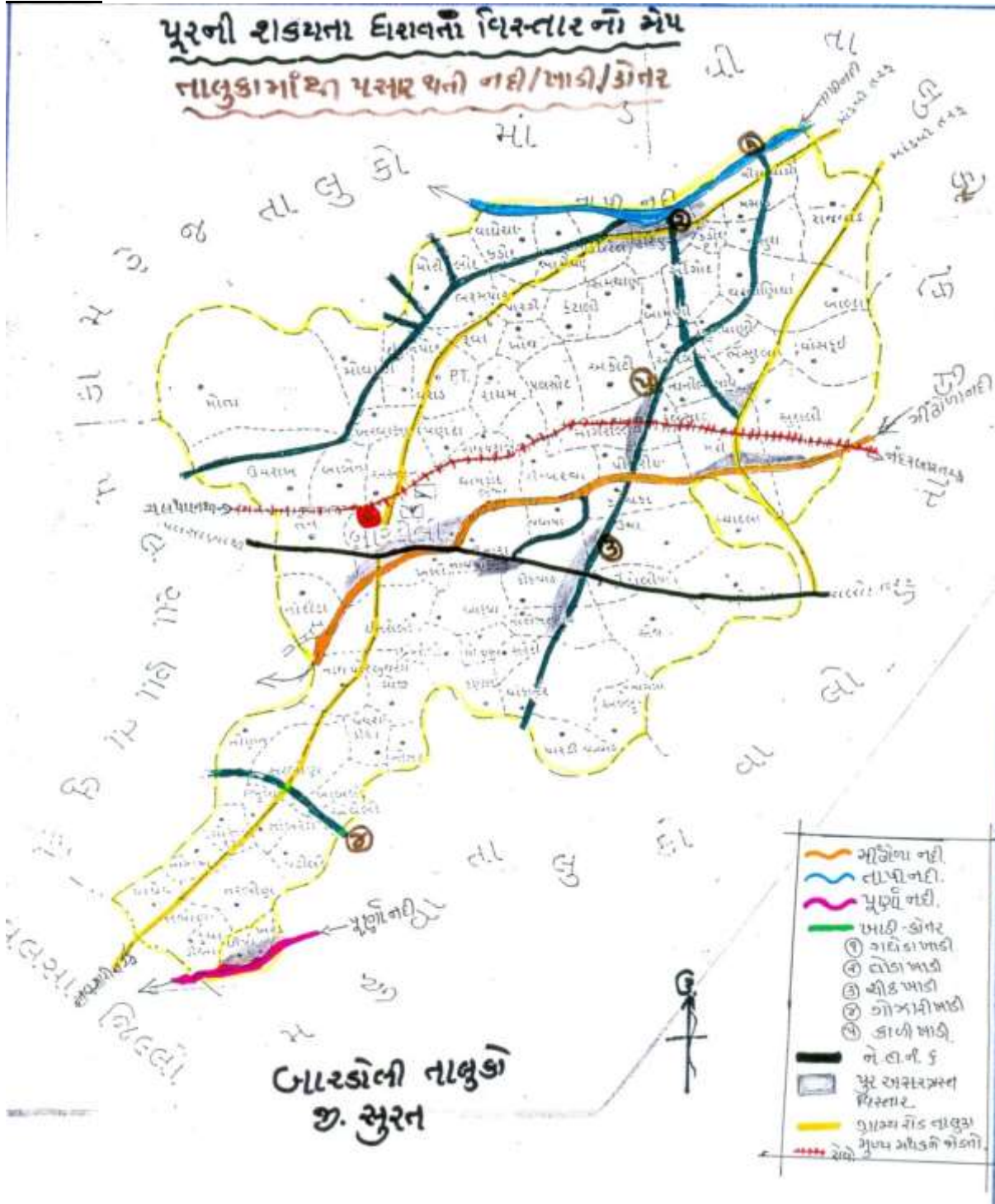
Madhya Pradesh

भारत

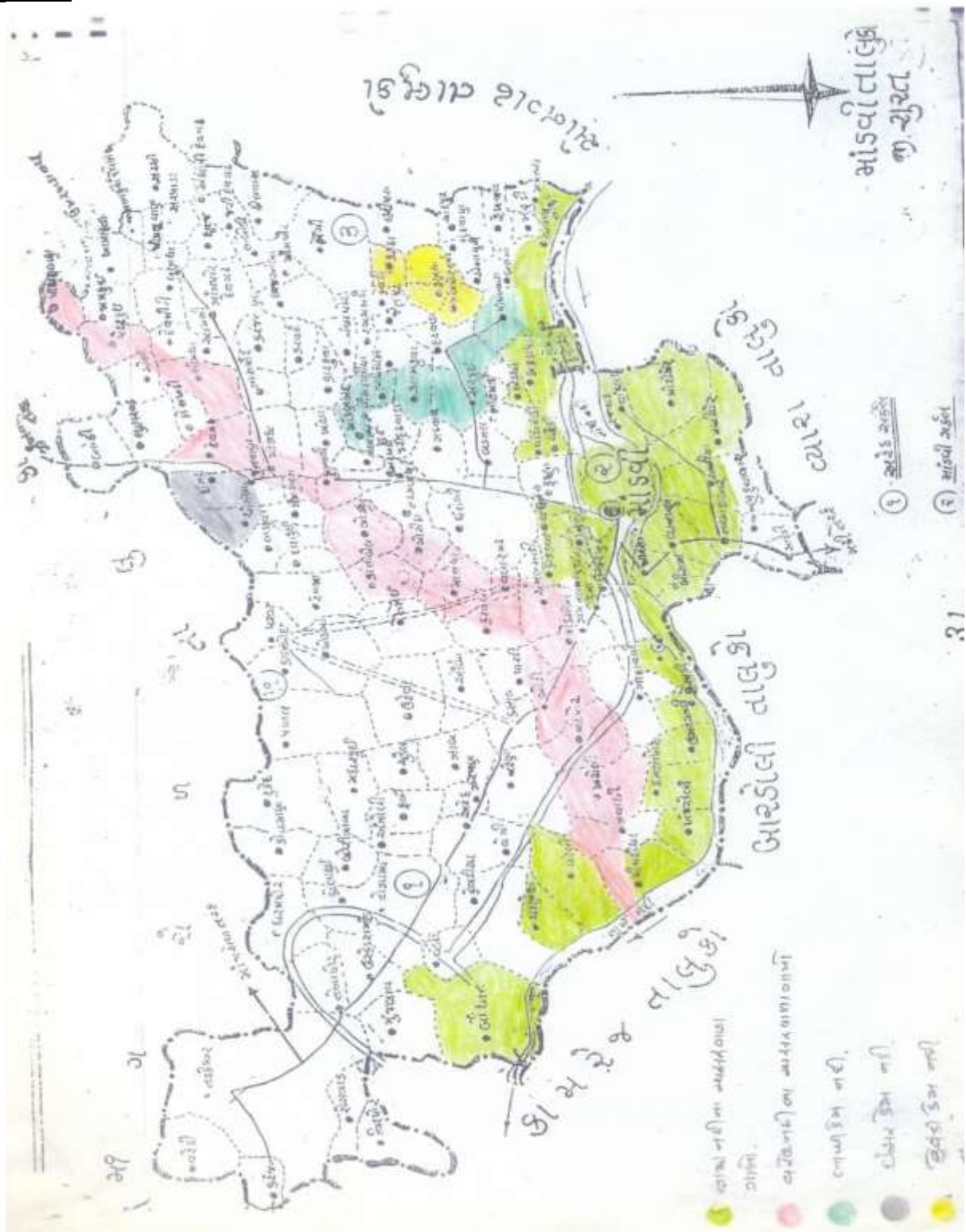
14.2 Tapi Affected Villages of Olpad Taluka

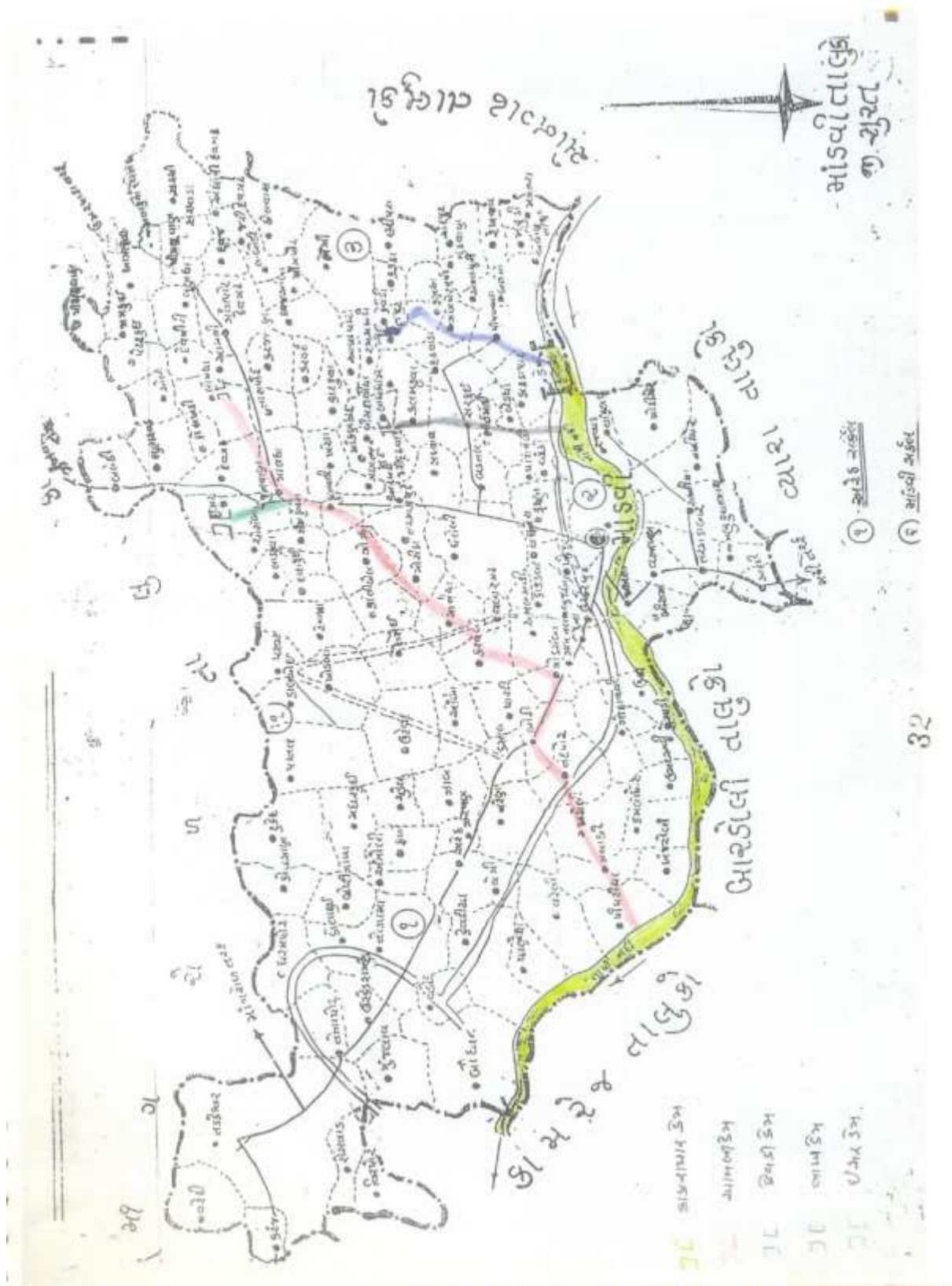


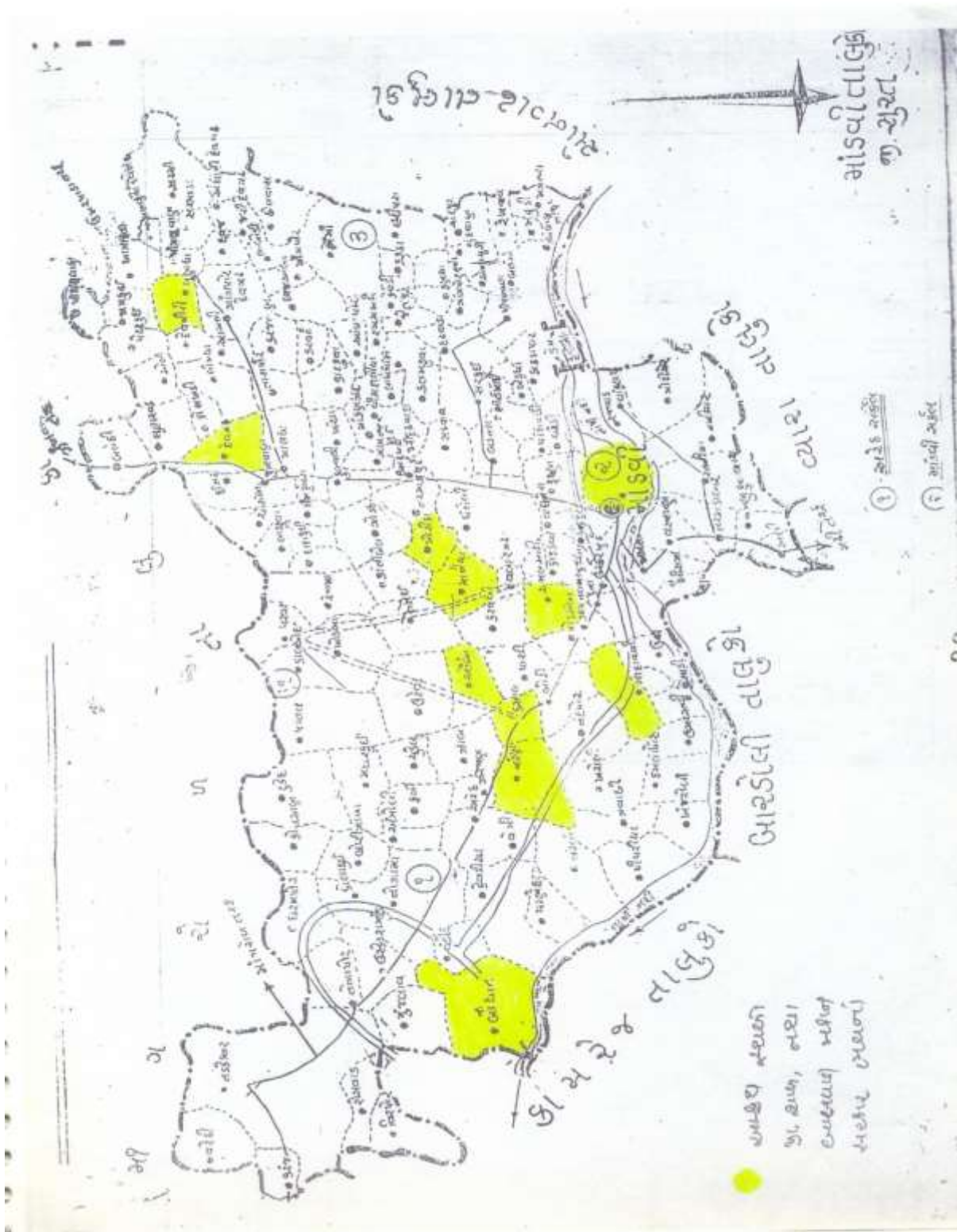




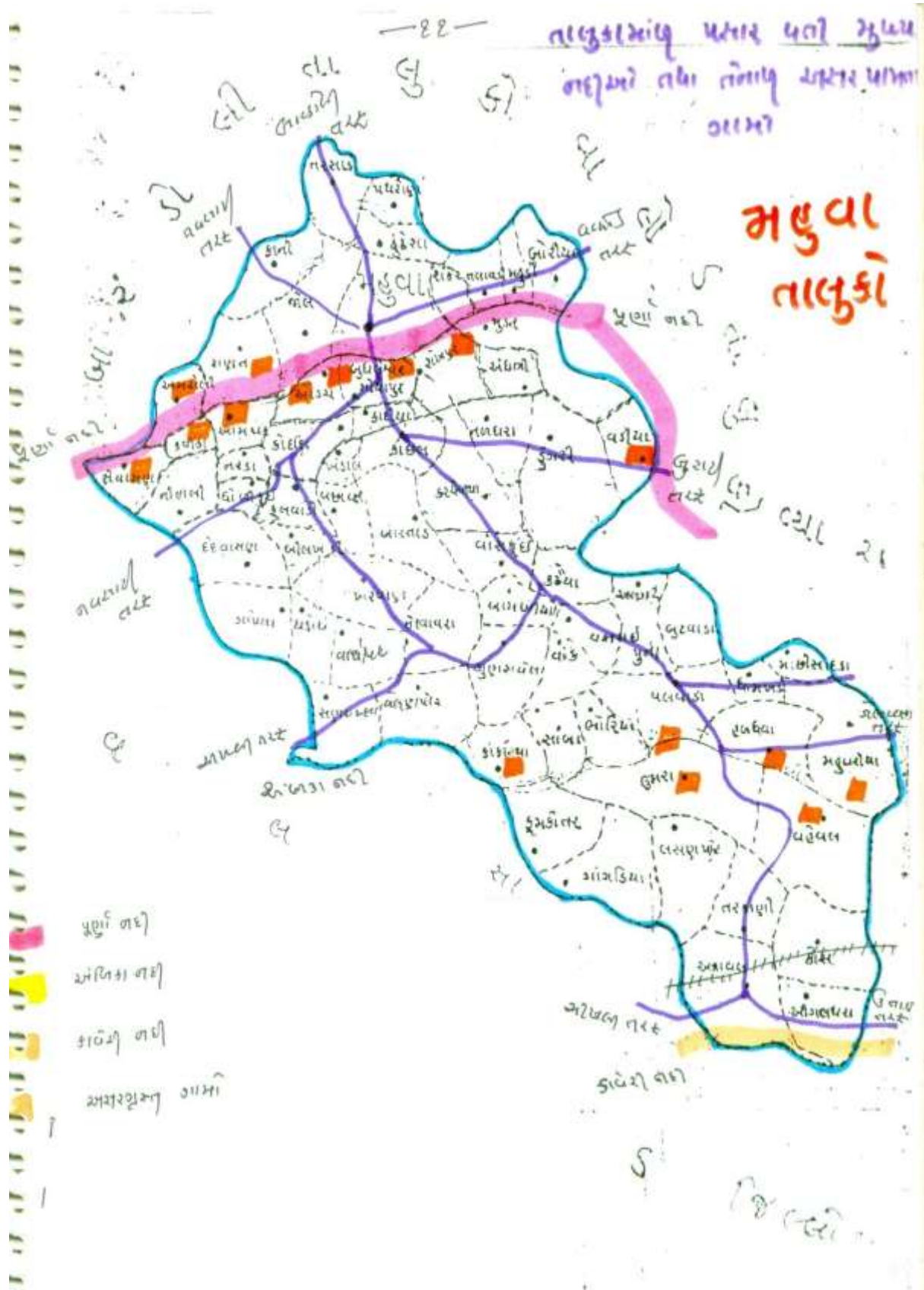
Mandvi

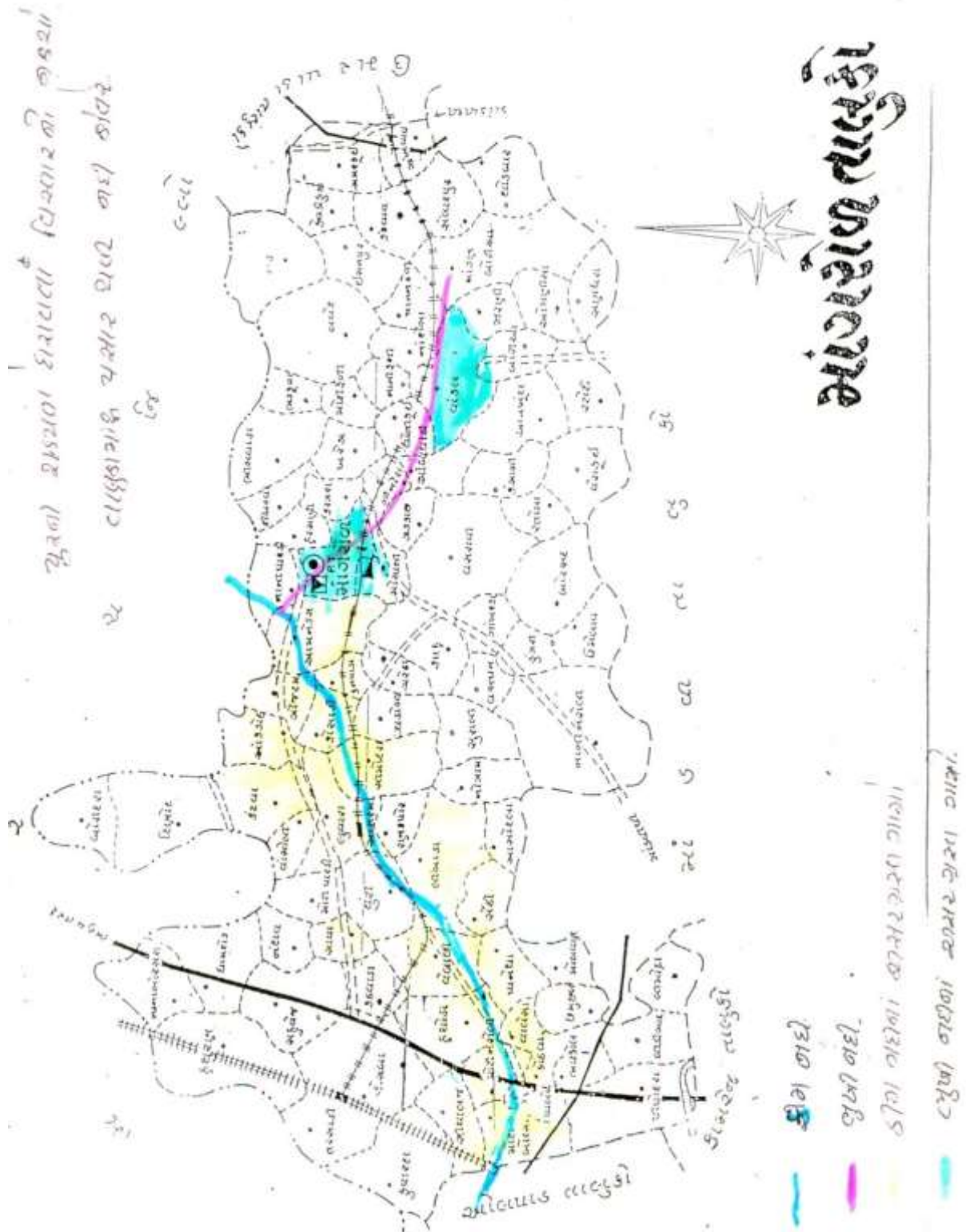






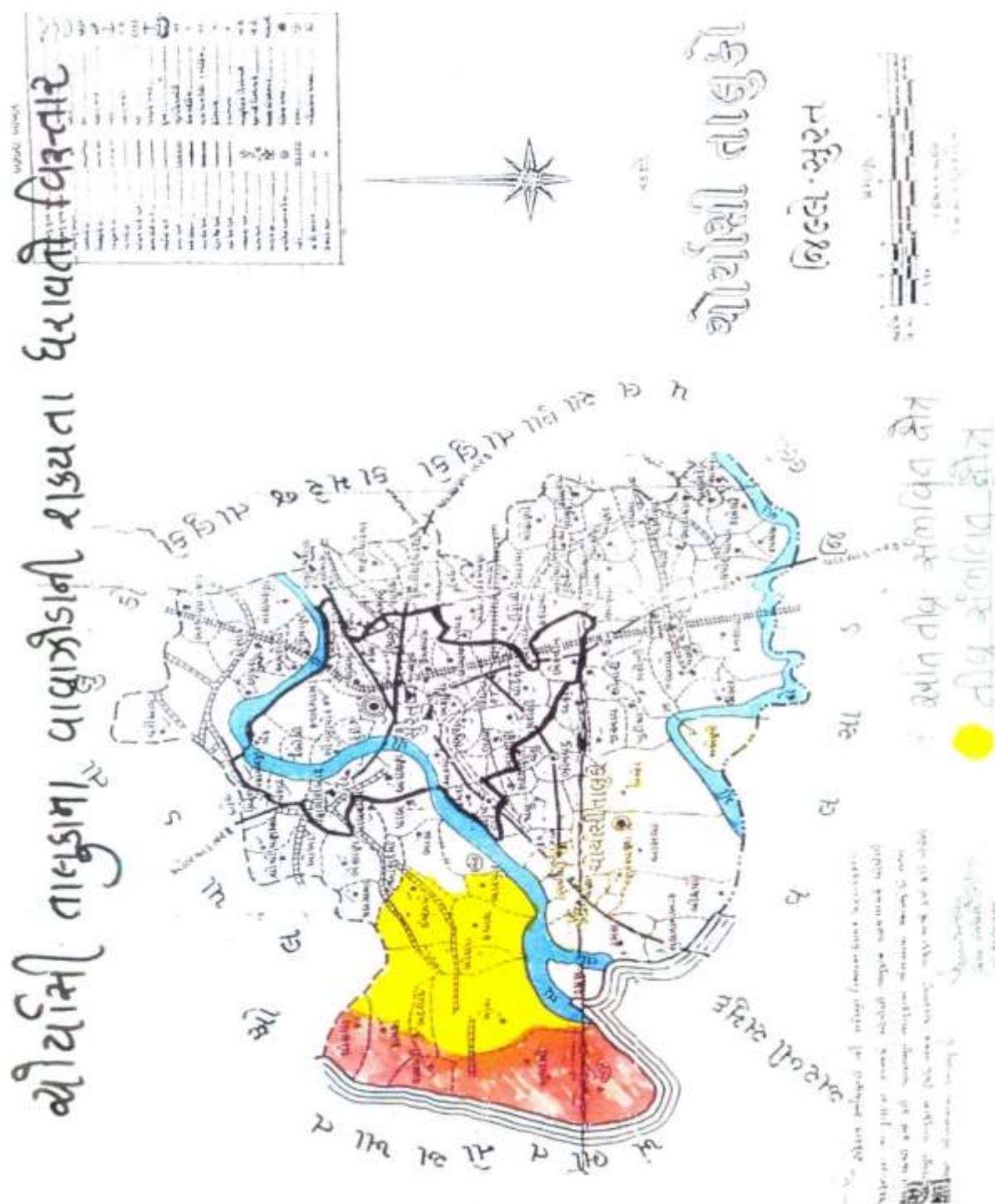






14.3 Map of cyclone affected Talukas

Ta: Choryasi

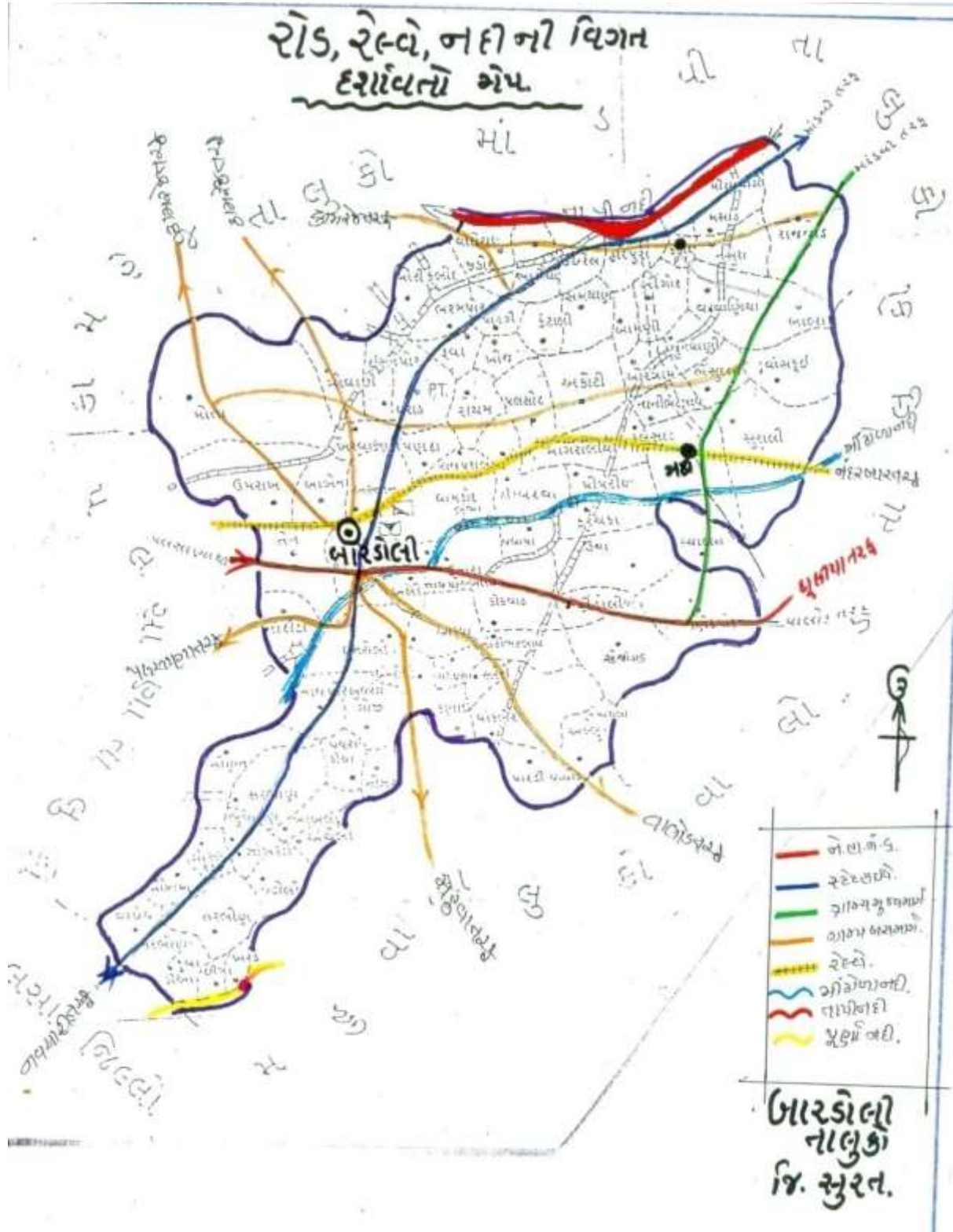


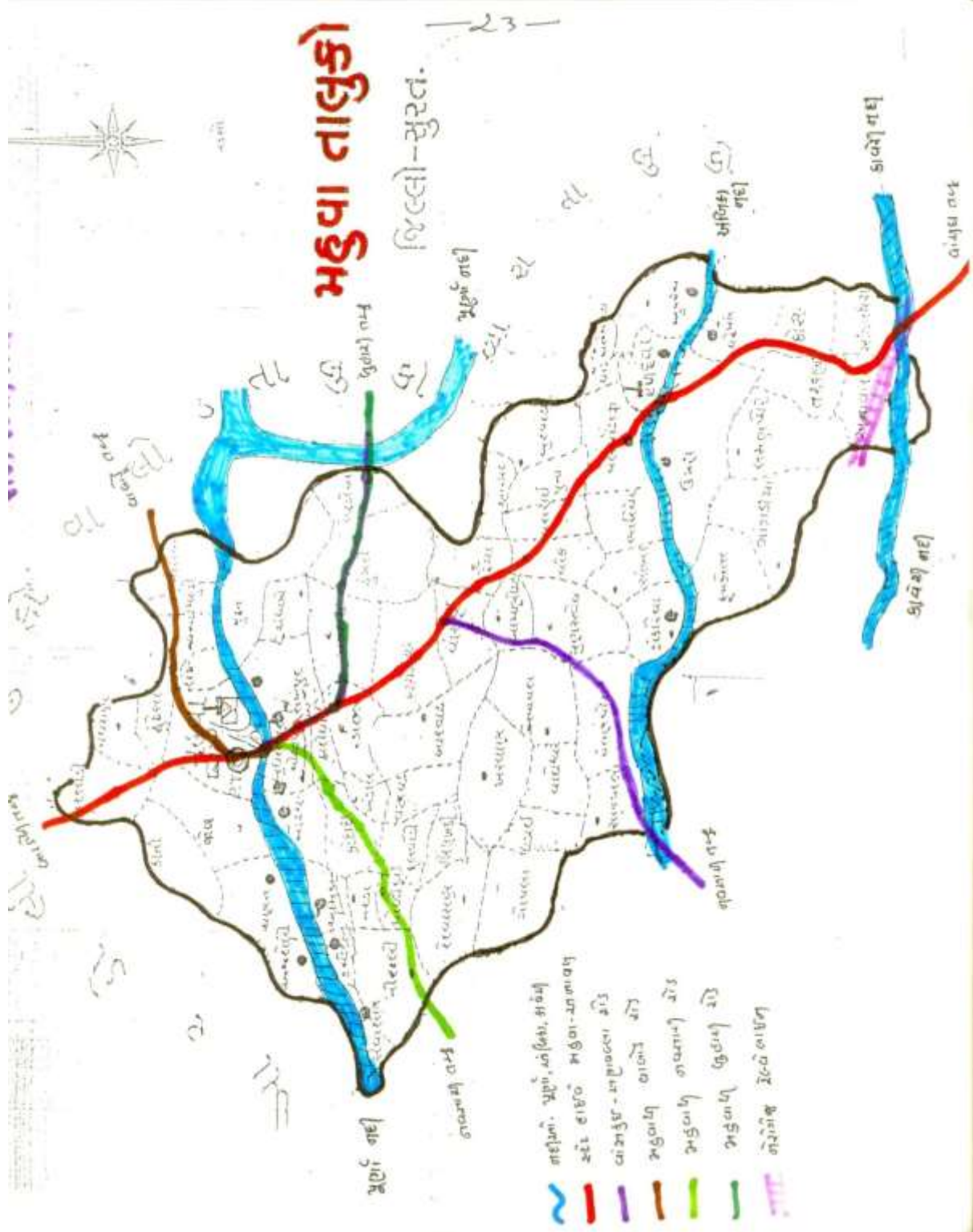
Ta: Olpad

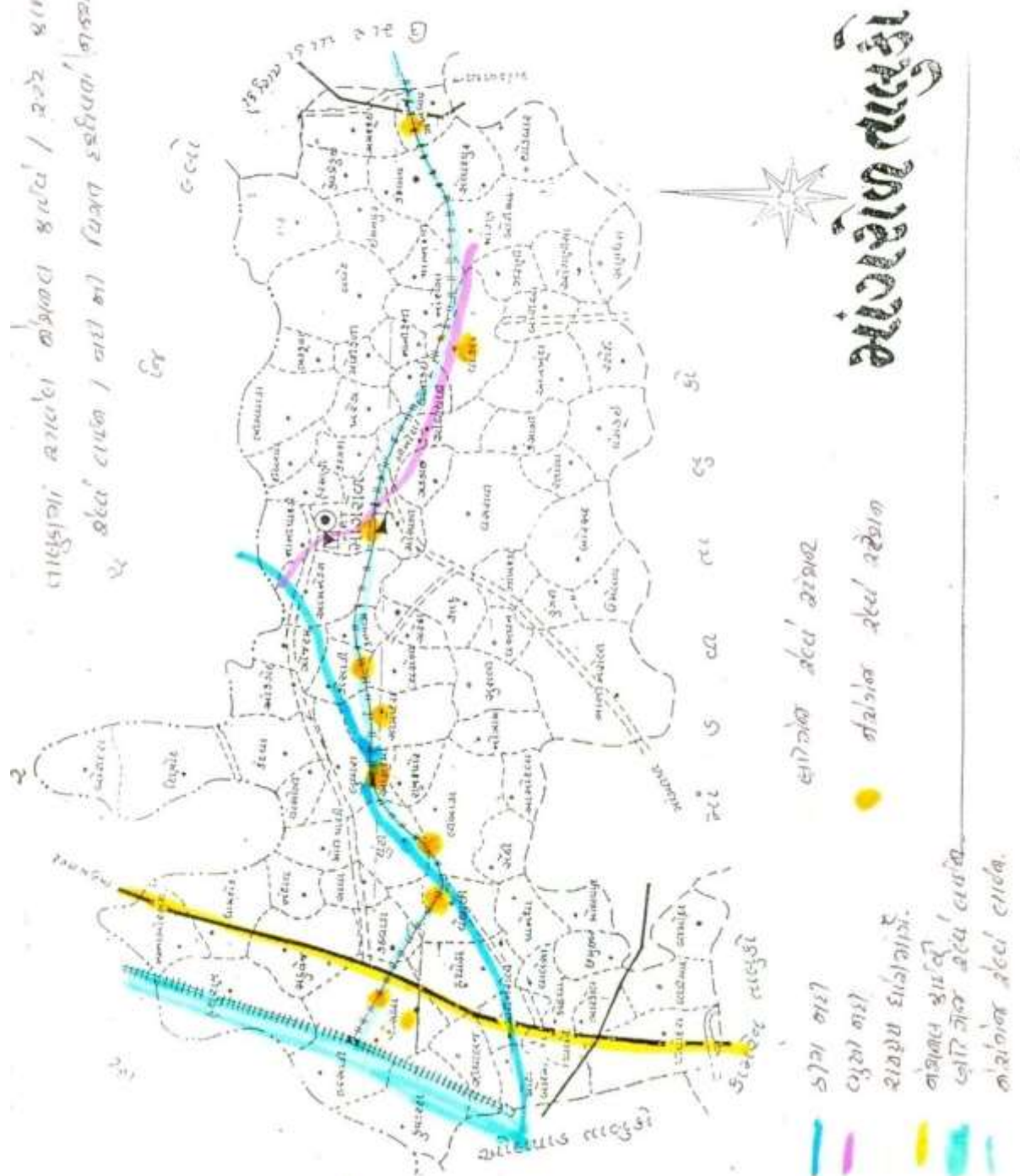


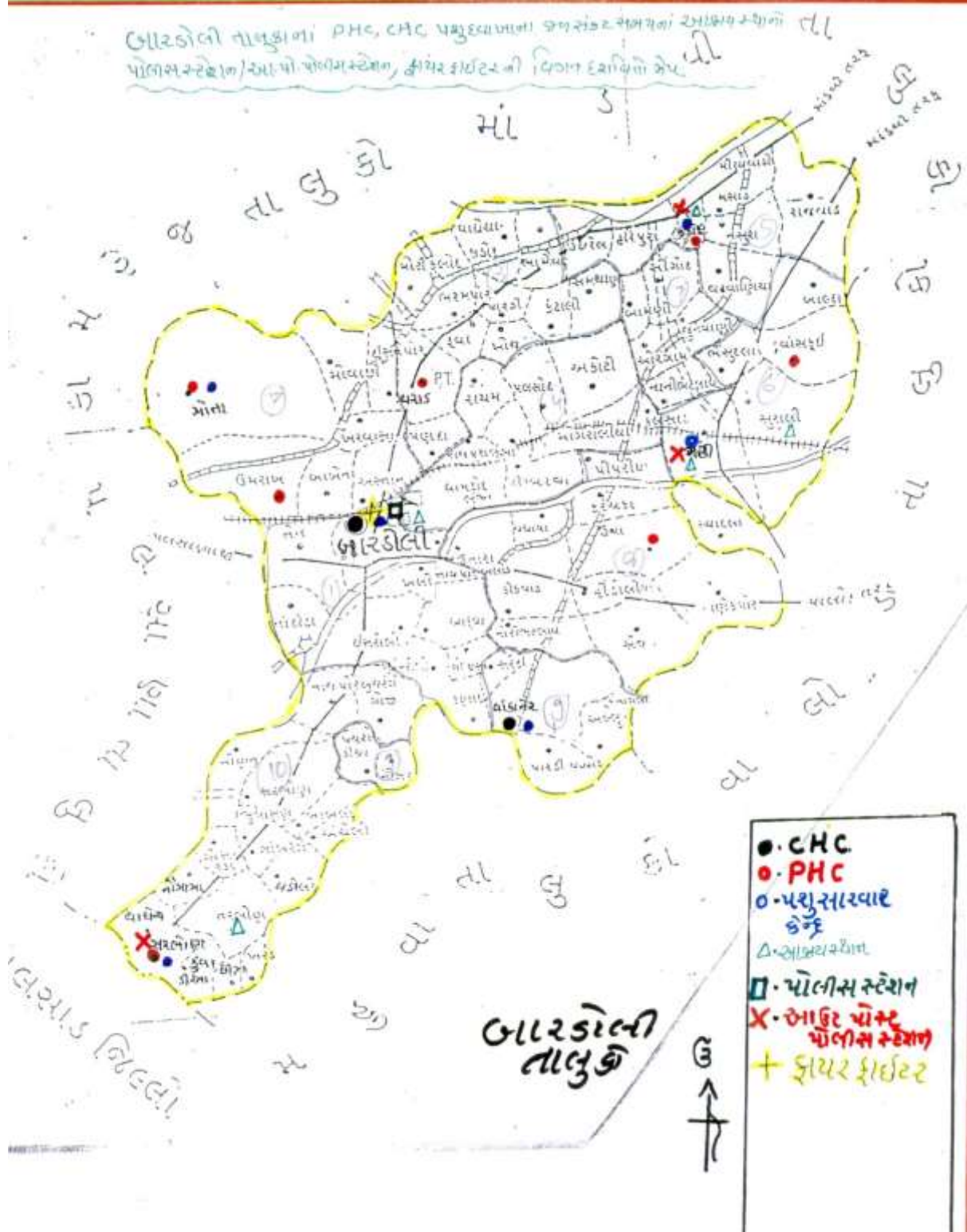
Map showing details of Road, Railway, River

Ta: Bardoli

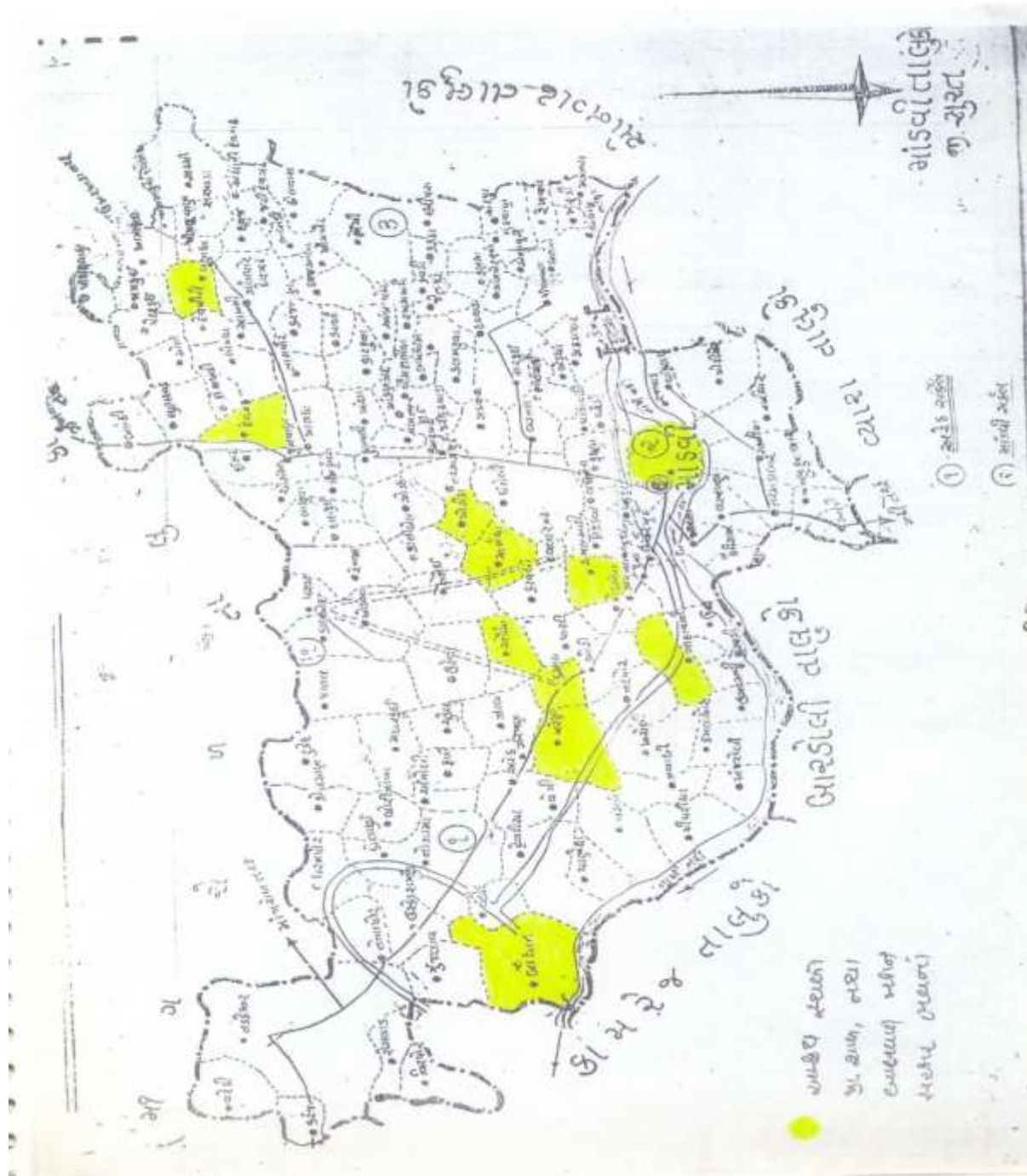




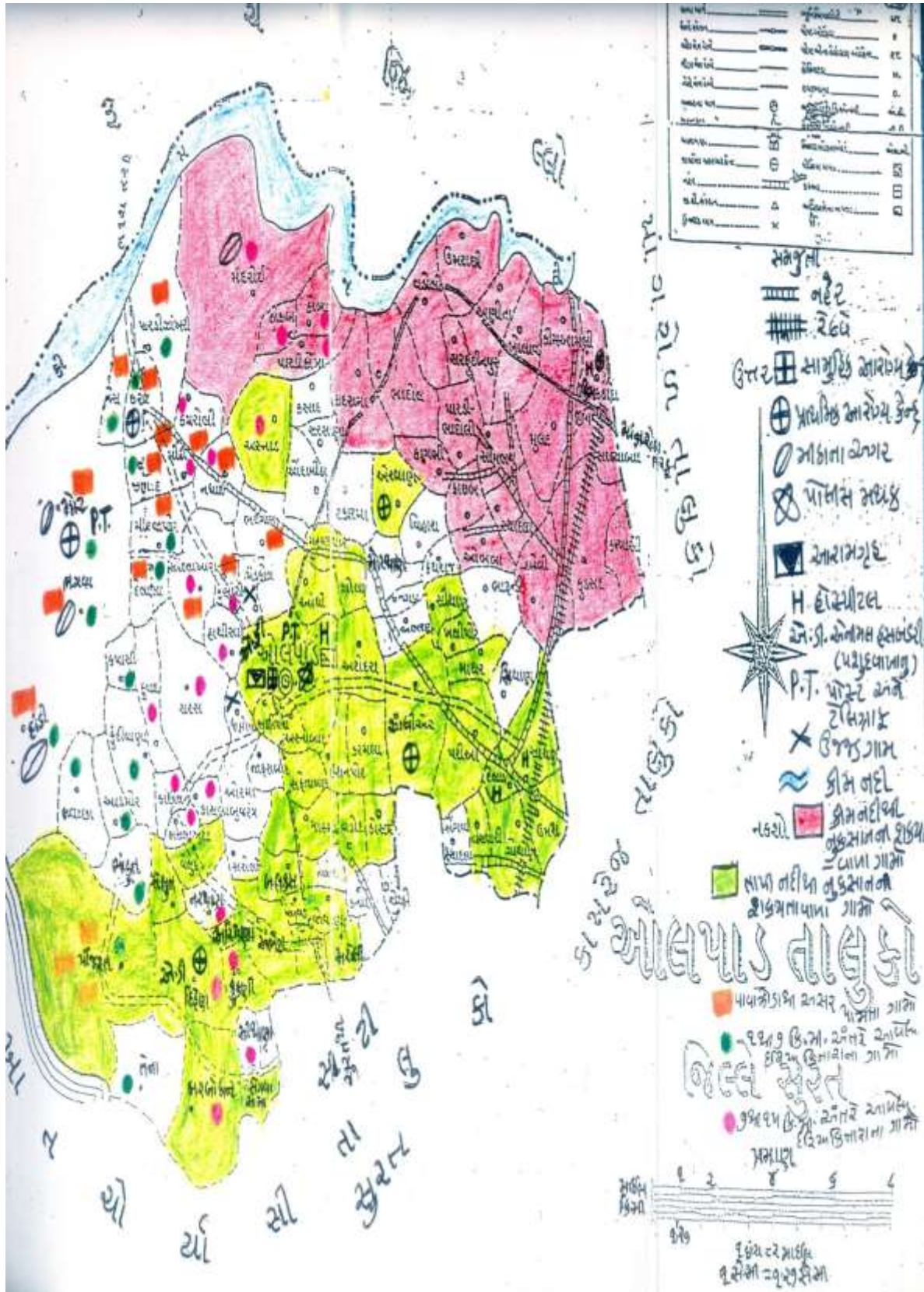




Mandvi- Affected Villages-Dam-Rivers



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14.4 Tapi Basin

