

DISASTER MANAGEMENT PLAN: DISTRICT-JUNAGADH

Preface:

In recent years, the Government of Gujarat has been giving increased focus towards the Disaster Management and related aspects. As a part of Disaster Risk Management, all the Villages, Taluka and City in the Junagadh district have prepared their Disaster Management Plans and are being updated every year.

The District Disaster Management Plan is a summary document giving the details about the hazards, its history, vulnerability analysis, risk assessment and flood management strategy and mitigation plan. It also outlines the flood response plan, warning system, communication system, search, rescue, relief operations and contingency plans.

We have tried to include the District related information, Risks and Preparedness against risks, responses at the time of disasters as well as Disaster Management and strategy during the disaster etc for Junagadh District. This Plan is updating periodically, and also we are improving it through our draw backs, errors and new lessons learnt.

I hope that this document shall go a long way in helping the district administration in tackling the disaster situations in a systematic and smooth manner.

Signature of District Collector	14	Collector-Junagadh
Name of District Collector	:-	Anil Kumar Ranavasiya (I.A.S.)
	:-	o q/04/ 2024

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CHAPTER-1

• Introduction:

The Government of Gujarat has envisaged the development of a holistic approach designed to manage disasters on a more proactive basis. The approach involves formulating a comprehensive policy on all phases of disaster management, and addresses the entire gamut of disasters arising from natural and manmade causes.

District Administration is primarily responsible for disasters/crisis management including prevention and mitigation. The existing Circulars of State Relief Manual guides the entire process of administration for relief and recovery in the State. These Circulars mainly address post-disaster events and the scope is limited to some of the natural hazards – floods, droughts & earthquake.

The Junagadh District is prone to many natural and man-made disasters. Natural disaster vulnerability of the District is presented in the Vulnerability Atlas of Gujarat prepared by GSDMA (Gujarat State Disaster Management Authority). The Atlas covers hazard vulnerability of the District to flood, wind and earthquakes.

1.1 Aims and Objectives

The aims and objectives of the Plan is to minimize the loss of lives and social, private and community assets because of natural and manmade disasters –

- 1. To assess the risks and vulnerabilities associated with various disasters.
- 2. To develop appropriate disaster prevention and mitigation strategies.
- 3. To provide clarity on roles and responsibilities for all stakeholders concerned with disaster management so that disasters can be managed more effectively.
- 4. To develop and maintain arrangements for accessing resources, equipment, supplies and funding in preparation for disasters that might occur.
- 5. To ensure that arrangements are in place to mobilize the resources and capability for relief, rehabilitation, reconstruction and recovery from disasters.
- 6. To create awareness and preparedness and provide advice and training to the agencies involved in disaster management and to the community.
- 7. To strengthen the capacities of the community and establish to maintain effective systems for responding to disasters.
- 8. To carry out restoration and rehabilitation measures soon after the disaster strikes.

1.2 Evolution of the Plan

District Administration prepares plan using guidelines & ensures that these are constantly reviewed and updated. Junagadh District prepared in advance, designate evacuation areas for use in emergencies and defines plans for providing essential services to those areas, when in use.

While preparing a District Disaster Management Plan for Junagadh District, the data collected at various levels were collated and on top of that was added with the Line department data. All this is make availabel with the in-house developed IT system 'State Disaster Resource Network [SDRN]. It gives information access to all the officials at Taluka, District and state Secretariat level.

1.3 How to use the plan

The District Disaster Management Plan has included all functions pertaining to disaster prevention, mitigation, preparedness, response, relief, recovery and rehabilitation. This Plan can apply to disaster management administration for all possible hazards that the District is prone to.

For efficient execution of the District Disaster Management Plan, the Plan has organized as per following four stages of the Disaster Cycle. (1) In Non disaster stage: Activities include disaster mitigation, leading to prevention & risk reduction. (2) In Before disaster stage: Activities include preparedness to face likely disasters, dissemination of early warnings. (3) In During disaster stage: Activities include quick response, relief, mobilization of search & rescue, damage assessment. (4) In After disaster stage: Activities include recovery & rehabilitation programs in disaster affected areas.

The District Disaster Management Plan can be utilised but not limited for:

- 1. To integrate disaster risk reduction into sustainable development policies and planning;
- 2. To develop and strengthen institutional mechanisms and capacities to build resilience to hazards;
- 3. To systematically incorporate all international, regional, national and local disaster risk reduction strategies and approaches into the implementation of emergency preparedness, response and recovery.
- 4. To achieve a comprehensive, all hazard, all agencies approach by achieving the right balance of prevention, preparedness, mitigation, response and recovery;
- 5. Prepare communities to ensure that they are fully equipped to anticipate and respond to disaster events.
- 6. To promote a transparent, systematic and consistent approach to disaster risk assessment and management.
- 7. A multi-stakeholder participatory approach including community participation at all levels
- 8. Develop a database and information exchange system at regional level.

1.4 Authority for the plan

The Gujarat State Disaster Management Act of 2003 authorizes the collector to secure cooperation and assistance from other parties in efforts to avoid or reduce the impact of disasters.

The Collector (Specifically) and Government authorities (generally) are responsible for managing hazards and disasters, which affect a district, with support from GSDMA, the relief commissioner and other public and private parties as, may be needed.

1.5 Stakeholders and their responsibilities

The roles, responsibilities and obligation of the Collector and other Stakeholders are set out in detail in the Act and are considered as part of this plan.

Clause 26 of Chapter X. (THE GUJARAT STATE DISASTER MANAGEMENT ACT, 2003)

(1) Each department of the Government in a district shall prepare a disaster management plan for the district and the Collector shall ensure that such plans are integrated into the disaster management plan for the whole of the district.

(3) A department of the Government shall subject to the supervision of the Collector -

(a) prepare a disaster management plan setting out the following, namely :-

(i) the manner in which the concept and principles of disaster management are to be applied in the district;

(ii) role and responsibilities of the department of Government in terms of the disaster management plan of the State;

(iii) role and responsibilities of the department of Government regarding emergency relief and post disaster recovery and rehabilitation;

(iv) capacity of the department of Government to fulfill its roles and responsibilities;

(v) particulars of disaster management strategies; and

(vi) contingency strategies and emergency procedures in the event of a disaster, including measures to finance the strategies;

1.6 Approval of the Plan

The Line Departments and other Stake Holders of Distirct submits a copy of its disaster management plan, and of any amendment thereto to the Collector for Approval of that Plan.

The Collector shall submit a copy of the district disaster management plan, and of any amendment thereto to the State Disaster Managemetn Authority and the Relief Commissioner for Approval of the Plan.

1.7 Plan review and updation

The Line Departments and other Stake Holders of Distirct should: regularly review and update the Plan and submit a copy of its disaster management plan, and of any amendment thereto to the Collector. The Same Compiled DDMP document should: regularly update and submits updated copy to Disaster Management Authority and State Relief Commissioner for Review.

Normally, The District Disaster Management Plan of District is updated twice in a year for Review and Updation. It is likely to be prepared in Pre-Monsoon phase in month of May and it is updated in Post Monsoon phase likely tobe in month of November every year.

Disaster Risk Reduction Post-2015

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

Sendai Framework of Actions for Disaster Risk Reduction 2015-2030

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

The Four priorities of actions are:-

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

The seven global targets are:-

- A. Substantially reduce global disaster mortality by 2030, aiming to lower the average per 100,000 global mortality rate in the decade 2020-2030 compared to the period 2005-2015
- B. Substantially reduce the number of affected people globally by 2030, aiming to lower the average global figure per 100,000 in the decade 2020-2030 compared to the period 2005-2015
- C. Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030
- D. Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030
- E. Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020
- F. Substantially enhance international cooperation to developing countries through adequateand sustainable support to complement their national actions for implementation of this Framework by 2030
- G. Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030

Sustainable Developmental Goals

The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by all United Nations Member States in September 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. The 17 SDGs are integrated-that is, they recognize that action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability. They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests. In order 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 21or 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 abovepre-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 climatechange". The Paris Agreement recognized the need loss and damage associated with theeffects of climate change. The agreement identifiedareas of cooperation central to DRR and called for investments to address the underlyingrisk drivers associated with rising greenhouse gas (GHG) emission levels and to inspire innovation low-carbon growth.

The State Disaster Management Plan (SDMP) has tried to envisage coherence across the states Efforts for DRR, sustainable development, and the actions in response to climate change.

Hon'ble 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 thefollowing:

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



CHAPTER – 2 - Hazard Vulnerability and Risk Assessment:

2.1 Matrix of Past disasters in the district

• 1. Cyclone (November-1982)

The Severe Cyclonic Storm over the Arabian sea Sticks on November 4 to 9, 1982. Observed / Estimated Max. Wind after Landfall was 50 Knots - 93 Kmph. Saurashtra Coast of Gujarat about 45 km east of Veraval was affected very much by this storm. 507 people died and 1.5 lakh livestock perished. 50 fisher men were reported missing in Gujarat Coast.

• 2. Drought (1999-2012)

Drought occurs in 1999 and in year 2012, due to lack of sufficient rain, Half Scarcity was declared for all Talukas of Junagadh District.

• **3. Earthquake (January-2001)**

After Earthquake -2001 Relief given to Total 86 Houses under G5 Category for Reconstruction in Junagadh District viz. Junagadh(R)-40, Junagadh(U)-1, Keshod (R)-5, Manavadar (R)-10, Mangrol (R)-21, Vanthali (R)-9.

Lastly an Earthquake of Magnitude 5.3 was strikes on 20th October – 2011 at 10:48 PM. Epicentre was identified at 13 km SE of Sasangir, in Mendarda Taluka. Earthquake was felt in major parts of the District. Total 15 Persons were injured due to earthquake in Maliya and Visavadar Taluka. Total 165 Tent were distributed to structurally damaged houses as an immediate relief. Total 1767 Houses of 34 Villages of Maliya Taluka, were surveyed by different Teams and Relief were distributed to Total 1261 Beneficiaries.

• 4. Civil Unrest (February-2002)

After Godhara Communal Riots, Junagadh and other talukas were slightly affected and total 2 Death occurs, 22 persons were injured, 12 Beneficiaries were given Financial Assistance for Ho

• 5. Flood (June-2005)

In Year 2005 most of Talukas were affected due to Flood. Damage Report for Effected Taluka, Population, Evacuation, Human-Animal Death, Houses Collapse, Cash Doles and House Hold Relief is as below.

Total Affected Taluka - 6, Affected Villages - 258, Affected Population - 18674. Total Relief Centres - 12, Total Persons got Shelter - 2994 Total Human Death - 36, Total Animal Death - 88 House Collapse - Huts-10, Pucca House- 29, Kachcha House- 106 House Damaged - Huts-2, Pucca House-122, Kachcha House- 1756 Cash Doles given to Persons - 44 House Hold Relief given to - Families-1733, Persons- 6935

• 6. Cold Wave (January-2008)

Junagadh and Many parts of Saurashtra had experienced Severe Cold Wave for continuous 12 days. The Severe Cold Wave had abated and the Average Minimum Temperature was 7.3 Degrees.

• 7. Heavy Rain (July-2009)

In Year 2009, mainly 2 Talukas Maliya and Mangrol were affected due to Heavy Rain. Damage Report for Human-Animal Death, Houses Collapse, Cash Doles and House Hold Relief is as below.

Total Human Death - 12, Total Animal Death - 110 Cash Doles given to Persons - 5596 House Hold Relief given to - Families-33587 House Damaged - Fully- 26, Partial- 1614 Total Persons Shifted at Shelter - 19442 Food Packets Distributed - 52579

• 8. Fire (November-2009)

Due to Large no of Ginning Mills at Manavadar Taluka and the area Surrounded by Forest of Junagadh and Visavadar are likely to be affected in Fire most frequently. To mitigate against Fire in urban Area, recently GSDMA have Supplied Water Browsers and Mini Fire Tenders to Nagar Palikas of Junagadh District.

• 9. Boat Sinking (November-2009)

Due to Cyclone "Phayan", all Fishermen were called to return back on port. 2 Boats Named Siv-Sagar (VRC-8497) and Vishwanath (VRC-6618) were Damaged and Sink but all sailors on that boats were safely reach on cost.

using Damage, Cash Doles were given to 83 Persons (15 Families), 59 Persons were given Financial Assistance for Damage in Professional Equipments and 17 persons were benefited for House Hold Assistance.

• 10. Heat Wave (May-2010)

Heat Cave conditions were prevailed in parts of Saurashtra including Junagadh for more than 10 days in the month of May holding Temperature more on 40' Centigrade. Highest Temperature for Junagadh was Recorded 44.7 on 20th May-10.

• 11. Food Poisoning (January-2010)

Major Food Poisoning Cases were handled by Health Department and Administration During Marriage Ceremony at Khadiya Village of Junagadh Taluka.

• 12. Accident (February-2019)

Junagadh, Vanthali, Maliya, Mangrol and Visavadar Talukas are on N.H. 8-D, 8-E and State Highways which considered as an Accident Prone Zone for Junagadh District. Due to Accident 4 Death was occurs near Mangrol in February-2019.

• 13. Cyclone (June-2021)

Before the Cyclone: -

- A meeting was organized with the officers of all the departments of the district on 14/05/2021 at 11:30 am to take precautionary measures and advance planning in the district after receiving the forecast of "Tau Te" Cyclone from the office of the Meteorological Department.
- To alert the coastal villages and persuade them to evacuate on the spot and to evacuate the displaced persons to shelters and to provide all the basic necessities of life, food, water, sanitation in the shelters and to make proper police arrangements to protect the lives and property of the displaced persons.
- Instructed to arrange generator and DG set for power backup in Covid -19 Care Center, Civil Hospital, Private Hospital, PHC, and CHC.
- It was instructed to prepare a list of possible villages affected by the cyclone in Mangrol Maliya taluka. The population affected in such villages was 23371. He was shifted to a safe place.
- Instructed the Director of Fisheries Department to return all the boats, fishermen who went for fishing in the sea, in this regard all 3587 boats that went to sea were recalled.
- In the whole district especially 1 km to 10 km adjacent to the coast.15 villages of Maliya and 32 villages of Mangrol taluka were found to be affected in the radius distance of the district. Informed the concerned Taluka Mamlatdar, Taluka Development Officer, and Police Department.
- National and regional language correspondents of press and electronic media in the district are watching TV. All the information should be available to the news channels in time and proper action should be taken to prevent the spread of rumors etc.
- Arrangements have been made by the district administration to ensure that public roads and roads are not closed for a long time due to power poles falling on public roads, trees falling or any other cause during the entire Cyclone.
- Most of the government schools as shelters were maintained and necessary arrangements were made to provide basic facilities like food, water and electricity sanitation to the migrants. As well as instructed to pay special attention to Covid-19 protocol.
- Instructed to form rescue, relief and survey teams in all the talukas of this district. Executive Engineer, West Gujarat Power Company Ltd. has been instructed to form necessary monitoring teams to monitor the power supply to the shelters. Shelters have been set up to distribute 40,000 food packets with the help of voluntary organizations.

- As a precautionary measure, 147 dangerous hoardings in urban areas have been removed.
- What should the public do before and after a Cyclone? And what not to do? It was broadcast on press media and local FM and TV

Regarding Covid Hospital: -

- Instructed to arrange generators at all 50 Covid hospitals in the district.
- Special arrangements were made to ensure that the oxygen supply was not disrupted, with a buffer stock of oxygen lasting for three to four days.
- Life-saving drugs such as Remdesivir Fabiflu were made available in quantities lasting four to five days.

Steps taken during Cyclone: -

- Circular has been issued to all the officers / employees of the district to be present in their work place and to perform the duties assigned to them round the clock. N.D.R.F. in the district for rescue and relief operations in case of emergency. 2 teams are on standby at Mangrol and 1 Chorwad. As well as the fire staff of the corporation and the municipality was kept on standby.
- Shelter areas, low lying areas and ports were visited by Hon'ble Minister, Secretary in charge, Collector and District Officer.
- Winds blowing at 130 kmph in Visavadar taluka of the district and 100 kmph in Junagadh city and 85 to 100 kmph in the rest of the talukas.

• 13. Cyclone (June-2023)

Details of pre-preparedness measures taken by the district administration regarding possible Cyclone stormsDistrict Junagadh

1. District level disaster management control room and taluka Mamlatdar office control room as well as district level control room of concerned department have been assigned round the clock duties.

2. Taluka Wise Liaison Officers have been appointed and they have been instructed to be present at Taluka Head Quarters.

3. Talati cum Mantri informed to be present at village level.

4. District level officials have been instructed to be present at the head quarters.

5. Coastal villages are located in the taluka which have been designated as safe havens to be evacuated to in case of need.

6. Precautions to be taken before, during and after a cyclone are widely publicized/disseminated through the Information Department.

7. Fishermen have been warned not to go fishing in the sea. All fishermen have been recalled by the Fisheries Department. Fishing has been stopped from 01/06/2023, as per the notification of Fisheries Department.

8. The information of signals kept at different ports in Junagadh district is provided to the public and continuously coordinated with the Port Authority.

9. It has been advised to keep the resources with different departments in an up-to-date condition.

10. The bulletin issued by the meteorological department is communicated to the concerned through the control room.

11. Cyclone warning issued to likely coastal villages of Junagadh. And instructed to move to a safe place if necessary.

12. Coordinated with NGOs in Junagadh district.

13. District level DDAMP has been prepared. And taluka level TDMP and CDAMP prepared.

- 14. District, Taluka and village level contact list prepared.
- 15. Damage Survey Team and Medical QRT. The team was formed by different departments.
- 16. District level pre-monsoon (May) meeting completed.

17. District level and taluka level control room phone numbers have been widely publicized in the district.

18. All the concerned departments of the district have been instructed to take action as per their SOP.

19. With the support of Government of India and World Bank, 20 cyclone shelters have been prepared in Mangarol taluka and 05 in Maliya taluka through roads and buildings. This shelter is kept operational.

20. Also all schools/community halls/samajwadis in the district have been identified.

21. A meeting was held with all the officials of the district on 09/06/2023 in the chairmanship of the collector and all the officials and employees of the district were instructed to stay in the head quarters to take necessary precautions regarding possible Cyclone storms.

Meeting was held with all the officers of the district in the chairmanship of the Collector and all the officers and employees of the district were instructed to stay in the head quarters to take necessary precautions regarding possible Cyclone storm.



6

Precautions to be taken before, during and after a Cyclone have been widely publicized.



13

 Due to the forecast of heavy winds due to Cyclone storm conditions, large boards and hoardings have been taken down.



14

In each Taluka, the Taluka Liaison Officer and the concerned Prant Officer convened a meeting of the Taluka officials and visited the place and reviewed the necessary arrangements.





17

- 14. Flood (July-2023)
 - Rainfall as on 22-7-2023 (24 hours) : 1209 mm
- Junagadh city/rural taluka : 241 mm

Around 20 residential societies were water logged in city area.water got reduced as of now.

Details of shifting/rescue :

- Total 771 persons were shifted to nearby safe places on 22/07/2023.
- Total 220 persons were rescued & shifted to nearby safe places on 22/07/2023.
- These persons have returned to their respective houses.

Rescue teams :

- Total 2 teams of NDRF and 3 Teams of SDRF are standby in district.
- Total 9 teams of firefighters are available in Junagadh.
- Around 300 aapda mitras are available for search and rescue operation.

Details of food packets:

• Total 53,592 food packets are arranged & being distributed among the affected people.

Details of other relief measures:

- Total 75 ration kits were distributed in affected water logged areas.
- Distribution of cloths to affected families by NGO's.

Details of Machinery utilised :

- Total 11 dewatering pumps were used in waterlogged area, societies.
- 1 truck mounted pump 38 HP, 8 Pumps of 6.5 HP were utilised.
- RTO: 2 dumper trucks, 7 JCBs,1 trolly tractors,2 cranes.
- GSRTC : 1 crane .
- Private : 2 eicher truck.

-// 18 //-

- R&B : Total 2 JCB and 1 tractor.
- Total 4 JCBs, 10 Tractors, 3 Front loaders, 75 Pickup vans are deployed for sanitation & cleanliness work
- 108 Ambulance: 22 (16 junagadh,8 Porbandar)
- PGVCL: 2 tractors,12 bolero vans for quick power restoration work.

Details of manpower deployed :

Rescue :

- 2 NDRF teams (50 persons), 3 SDRF teams (71 persons).
- Police: TOtal 150 police personnels including SP, 2 DySP,3 Police inspectors, 10 ASI & s were on field.
- Aapda Mitra: Around 100 aapda mitras/home guards were sent in affected areas for search and rescue operation.
- Firefighter: Total 9 teams (55 staff) of firefighters. along with keshod Nagarpalika fire fighter team.
- 10 revenue talati and mamlatdar city were also on field in affected areas.
- **R&B**: 1 team (5 persons) along with 2 JCB, 3 tractor.
- **PGVCL:** total 37 teams 5 teams per subdivision (200 staff),18 Engineers.

Sanitation:

- Total 1087 employess .740 workers & 20 supervisors from JUMC, 307_workers and 20 supervisors from other Nagarpalikas.
- Cleanliness drive was initiated immediately in various areas of junagadh city like, Dolatpara,Marketing yard,gokulnagar,pradip khadiya area,sardarnagar society,kalva bridge,ganeshnagar,jamalvadi, etc.

Details of Damage & Relief :

- Total Human death : 04
- Total Animal Death : 20
- Human Injuries : 0
- Houses Damage : 9 (partial damage kacha houses)

Household damage survey :

- Total surveys teams formed : 40
- Total houses surveyed : 5350
- Areas surveyed : Total : 55 (in 2 days) (23-7-2023 & 24-7-2023)
 - GopalNagar, GIDC, Sabalpur, bansidhar society, shanteshwar society.
 - Madhav park, shukan residency, aadinath society.
 - o Karimbaug society, sakkarbaug, kevdavadi, sandhipara.
 - Oghadnagar, prabhunagar, kailash park, railway colony.
 - o Valand society, kaamdar society.
 - Durveshnagar, shitalnagar.jalaram society,lakshminagar,gokul nagar, dreamland society.
 - o Pramukh nagar, bilnathpara, mafatiyapara, dipanjali society, taksh shila society.

- Vishwakarma society, kailashdham,vraj bhoomi society,bhaktidham society, nidhinagar,madhuram timbavadi,yogipark,umiya nagar, aasopalav aaditi nagar, pushpak park.
- Gujarat housing board area, Kashi vishwanath society.
- o Lirbai para, datar nu khadiyu, pradip khadiya vistar.
- Survey is still in progress in some of the affected areas and scrutiny of survey forms is in process.

Rescue operation by NDRF/SDRF and JUMC fire staff during heavy rain on 22/07/2023



On 22/07/2023 during heavy rain, review meeting chaired by Hon'ble Chief Minister Shree.



After heavy rains on 22/07/2023, Collector Shri visited the affected area and took immediate action.



Distribution of food packets/ration kits to affected people after heavy rains on 22/07/2023



2.2 Hazard Risk Vulnerability Assessment (HRVA) – Authority that carried out HRVA:

The threat (risk) and possible impact (vulnerability) which can be actualized from these hazards ranges from minor impacts affecting one village to events impacting larger than the state alone.

The table below summarizes the results of an analysis of hazard, risk and disaster impact in Junagadh. This analysis indicates that disaster planning at the Junagadh district level should first focus on the functional response to the High winds and Sea surge. The functional responses to these events have links to the response to floods, hail storms and dam failure. Typical responses to these disaster events also can apply to fire, industrial accidents, failure of critical infrastructure and building collapse.

Hazanda	Probability	Impact	Vulnerability	Vulnarabla Areas/Talukas	
Hazarus	Rating	Rating	Ranking	vuinerable Areas/Talukas	
Earthquake	3	5	15 (High)	Zone- III : Entire District	
High Wind	3	4	12 (High)	Mangrol, Maliya(H)	
Flood	2	2	0 (Madarata)	Vanthali, Manavadar,	
riood	3	3	9 (Moderate)	Maliya, Mangrol.	
Fire	3	3	9 (Moderate)	Visavadar, Manavadar, Junagadh.	
Sea Surge	4	2	8 (Moderate)	Mangrol, Maliya(H)	
Industrial Accidents	3	2	6 (Moderate)	Junagadh	
Drought	2	3	6 (Moderate)	Entire District	
Food Poisoning	2	2	4 (Low)	Any Where in District	
Civil Unrest	2	2	4 (Low)	Any Where in District	
Epidemics	2	2	4 (Low)	Any Where in District	
Building Collapse	2	1	2 (Low)	Any Where in District	
Boat Sinking	2	1	2 (Low)	Mangrol, Maliya(H) Taluka	
Animal Disease	1	2	2 (Low)	Any Where in District	
Dam Failure	1	1	1 (Low)	Any Where at Dam sites	
Land Slides/	1	1	1 (Levy)	Cirper Hilly Area, Junegodh	
Mud Flows	1	1	I (LOW)	Onnai miny Area, Junagadh	

2.3 Tool and methodology used for HRVA:

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 risk and vulnerability ranking process has accomplished in five steps.

1. Identify the Hazards of Concern: Complete the hazards column for the above mentioned table. Typical hazards have already been identified, but these should be confirmed at this step and additional hazards added as appropriate.

2. Assign the Probability Ratings: 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 above Table.

3. Assign the Impact Ratings: Assess the potential magnitude or impact of each hazard and assign each "Impact Level" in above table. Enter the impact score for each hazard in the table in Step 1.

4. Assign "Vulnerability" Ranking: Multiply probability and impact scores in table in Step 1. The resulting score indicates the vulnerability ranking. Scores above 12 indicate high vulnerability; sore between 6 & 12 indicate medium vulnerability and score below 6 indicate low vulnerability.

5. Identify Areas with Highest Vulnerability: Once vulnerability ranks had identified, the locations and populations considered most vulnerable was 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.

2.4 List of hazards with probability to be addressed in this plan:

Junagadh has been traditionally vulnerable to natural disasters on account of its unique geo-climatic conditions. Floods, Drought, Cyclones and Earthquake have been recurrent phenomena. Entire District Fall in to Seismic Zone-III for Earth, 2 Costal Talukas are prone to Cyclone, 4 Talukas are Prone to Flood, and Entire District is also susceptible to drought.

Sr.	Type of Disaster	Last Impact (frequency) Month / Year	Intensity (magnitude)
1	Earthquake	January-2001 and October-2011	Medium
2	Flood	June-2005-July-2023	Heavy
3	Cyclone	June-2019	Heavy
4	Heavy Rain	July-2009	Medium
5	Drought	1999 & 2012	Medium
6	Fire	March-2018	Light
7	Heat Wave	May-2019	Medium
8	Cold Wave	January-2017	Light
9	Accident	February-2019	Light
10	Food Poisoning	April-2018	Medium
11	Boat Sinking	November-2009	Light
12	Civil Unrest	February-2002 and July-2004	Light

2.5 List of vulnerable Talukas (hazard-wise): details given as Topic 2.1 (Past Disasters):

Sr.	Type of Disaster	Affected Area / Taluka
1	Earthquake	Junagadh, Keshod, Manavadar, Mangrol, Vanthali, Maliya.
2	Flood	Vanthali, Manavadar, Visavadar, Maliya, Mangrol, Keshod.
3	Cyclone	Mangrol, Maliya.
4	Heavy Rain	Mangrol, Maliya.
5	Drought	Entire District
6	Fire	Junagadh, Manavadar, Visavadar
7	Heat Wave	Junagadh, Keshod, Vanthali
8	Cold Wave	Junagadh.
9	Accident	N.H. 8-D, 8-E and State Highways
10	Food Poisoning	Junagadh
11	Boat Sinking	Mangrol, Maliya.
12	Civil Unrest	Junagadh, Mangrol, Bhesan.

2.6 Resource analysis: (Analysis and outcome).

Resources Provided by Govt. at Various Levels.

(A) Rescue Kits / Ropes / Generator	(A)	Rescue	Kits /	' Ropes /	Generators
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Detail of Resources	Life Saving Jacket	Life Buoy	200 Feet Ropes	100 Feet Ropes	Generator
Total	228	168	22	44	11

(B) Fire Fighter / Water Browsers / Boat / De-Watering Pump Details

Detail of Resources	Fire Fighter	Water Browser	Boat	De-Watering Pump	Emergency Lighting System	Motorcycle Water Mist
Total	8	5	4	2	21	6

All District level officers, Sub-Divisions and Talukas have been provided with Telephone connection, Fax Machine, Computers with peripherals, Vehicle, emergency lights and Generator.

All Police Stations/Out Posts have Telephone connection or VHF Communication facilities.

All Fire stations of the District are equipped with the basic resources for search and rescue operations. State Government has provied Water Browers, Boat and also recently provided Emergency Lighting System and Motorcycle Water Mist to Most of Nagarpalikas of District.

2.7 Capacity Analysis:

In case of Junagadh District, considering the potential hazards and existing vulnerabilities, the current capacity of the district is just Medium, in terms of inventory, and the availability of resources (man & material) and utility point of view. The key details of the inventory and resources are in annexure.

Considering the profile of the district it is analyzed that sufficient resources are not available within the district. Material resources, monitory resources and human power are not sufficient to manage any larger calamities.

2.8 Outcome & recommendations of hazard, risk, vulnerability and capacity analysis.

A number of special programs are in operation for mitigating the impact of natural disasters and local communities have developed their own indigenous coping mechanisms. In the event of an emergency, the mobilization of community action supported by NGOs, add strength to the national disaster management capacity.

Despite initiating various disaster mitigation measures, there has been little improvement. Accordingly, Junagadh District has taken initiatives for linking disaster mitigation with development plans, promote the application of effective communication systems and information technology, insurance, extensive public awareness and education campaigns, involve the private sector and strengthen institutional mechanisms and international community cooperation.



CHAPTER - 3

Institutional Arrangements:

3.1 D.M. organizational structure in the state.

In order to achieve its objective of institutionalising a disaster management ('DM') framework in the state, the GoG has established a nodal agency, namely the Gujarat State Disaster Management Authority, to facilitate, coordinate and monitor disaster management activities and promote good disaster management and mitigation practices in the state. The establishment of the GSDMA is a key element in the overall disaster management policy of the State Government. The GoG also proposes to introduce legislation in the form of a Gujarat State Disaster Management Act to provide a legal framework for disaster management in the state.

In order to carry out the prescribed activities contained within this policy, the GoG has defined a framework of operation for the agencies that play a key role in disaster management.



3.2 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

3.3 D.M. organizational structure in the district.

The DM structure in the District is as per the Gujarat State Disaster Management Act – 2003. The District has existing institutional arrangements in place for addressing the roles / responsibilities envisaged through the provisions.

The District Collector is responsible for coordinating all disaster management activities at the district level. The Collector shall approve a district disaster management planning and review all measures relating to preparedness and response to various hazards. In times of disasters, District Collector may constitute a District Relief Committee to oversee management of relief.

DM organizational structure at district level



3.3 District Crisis Management Group (Task Force).

District is Responsible for assuring specific operations according to objectives and plans to address the immediate impacts of the incident. District Crisis Management Group (Taskforces) 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 Junagadh has identified 16 expected task forces for key response operation functions that are described below. Additional taskforces can be added under the operations section as needed by the circumstances of a disaster. Each Taskforce is led by one organization and supported by other organizations.

Emergency Taskforce	Functions & Co-ordination with of Control Rooms		
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	Provide human and material resources needed to support local evacuation, search and rescue efforts.		
6. Public Works	Yorks Provide the personnel and resources needed to support local efforts to re- establish normally operating infrastructure.		
7. Water	Assure the provision of sufficient potable water for human and animal consumption (priority), and water for industrial and agricultural uses as appropriate.		
8. Food and Relief Supplies	Assure the provision of basic food and other relief needs in the affected communities.		
9. Power	Provide the resources to re-establish normal power supplies and systems in affected communities.		
10. Public Health and Sanitation	and 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	Collect and analyse data on the impact of disaster, develop estimates of resource needs and relief plans, and compile reports on the disaster as		
15. Telecommunications	It)required for District and State authorities and other parties as appropriate.It)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)	IediaProvide liaison with and assistance to print and electronic media on early warning and post-disaster reporting concerning the disaster.		

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

The District CRISIS Management Group & COMPOSITION of the TASKFORCES:

No.	Task Force	Taskforce Leader	Supporting members/ Organizations
1.	Planning and Coordination	Collector	DDO, SP, Chief Officer, RAC and Mamlatdar
2.	Administration	Collector	DDO, SP, Chief Officer,

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

3.4 District Disaster Management Committee

District Disaster Management Committee is the high-powered committee at District level to look after disaster management and emergency response. This committee is chaired by the Collector with all Policy Makers from the District/Nodal Officer of each line department/ADM /SDMs and nodal officers from various Organizations as its members. ADM is the convener of District Disaster Management Committee (DDMC). A District Project Officer (DPO) has been appointed by GSDMA in the district to look after the day-to-day affairs of disaster management along with Mamlatdar Disaster Management in the district. The DDMC members meets to prevent and mitigate crisis situation in district. Minutes of DDMC meeting shall circulated among the members. Each of the DDMC members is member of the Emergency Support Functions (ESFs) in the district.

3.5 Incident Response System in the State

In any disaster response, the initial efforts would always be taken by the District Administration. However, when Districts are overwhelmed in any situation, the support necessarily has to come from the State level. There is a formal Incident Response System in the State. The GSDM Act 2003 empowers Commissioner of Relief to be the Incident Commander in the State and District Collector in the respective districts. The detail on the Incident response structure of the State is mentioned in Para 3.1 in chapter 3.

3.6 Incident Response System in the District.

The District Magistrate is the chairman of the DDMA as per the Act. The roles and responsibilities of the members of the DDMA have decided in advance in consultation with the concerned members. The roles of other line departments also have clearly discribed in DDMP and circulated the copy of same to all.

The IRS however depend on the nature of the disaster. In case of flood and earthquakes reaching the affected area, rescuing the affected people and providing relief to them is the main task of the responders. People have to leave their home in a hurry and they are not able to take away their valuables. These abandoned houses become vulnerable. The relief materials while being transported also become prone to loot. In such cases, Police and the Armed Forces are the best suited to handle and lead the operations section. In case of fire at Corporation and Nagarpalika level, it has the Fire Officer who are appropriate officer to handle the situation. In case of health related disaster, it would be the District Chief Medical Officer and so on.

Some of the natural hazards have a well-established early warning system. District also has a functional $24 \times 7 \text{ EOC}$ / Control Room. On receipt of information regarding the impending disaster, the EOC informs the District Collector, who in turn will activate the required IRT and mobilise resources. The scale of their deployment will depend on the magnitude of the incident.

In case of Sub-Division, Taluka, the respective heads, i.e. TDO, Mamlatdar and BHO will function as the IC in their respective IRTs. During the pre-disaster period, the Collector has ensure capacity building of IRT members in their respective roles and responsibilities.

In case when central teams (NDRF, Armed Forces) are deployed, the DM will ensure resolution of all conflicts. For this purpose he may attach a representative of such agencies in the DEOC where all conflicts can easily be resolved at the highest level. The DM works in close coordination with DEOC and report to State Relief Commissioner and CEO-GSDMA.

3.7 EOC setup and facilities available with the location

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

• Facilities at District Control Room

The District Control Room (DEOC) is equipped with but not limited to the following items:

3 Telephones Lines and Fax

- 2 Walky Talky Sets and 1 VHF Set
- Satellite Nera phone
- Three PCs with GSWAN based e-mail, web site facilities and Printers
- Conference table with Chairs in Conference Hall
- District Disaster Management Plan and District's Communication Plan
- 3 TVs for updated News telecasts.
- Projector with Screen and 2 Portable Emergency Lightning Systems.

3.8 Alternate EOC if available and its location

The Taluka Level Control Rooms are located at the Office of Mamlatdar. The Liaison Officers of the respective Talukas takes charge of the Control Room in any emergency. The respective Liaison Officers coordinates between the task group members working at disaster sites and TEOC for mobilization of resources and dissemination of instructions received from DEOC.

3.9 Public and private emergency service facilities available in the district

Following Public and Private Emergency Services Facilities is available in Junagadh:

- 1. 108 EMRI Ambulance have their Spot in every Taluka Hq. and all City.
- 2. Junagadh Municiplal Corporation has their Equipped Fire and Emergency Service.
- 3. All Nagarpalika have their Fire Fighting Equipments and Staff.
- 4. R&B, S.T., Forest, Health, Irrigation and Police Department have their limited

Emergency Services to co-ordinate during Emergency Situation in District.

(GSDMA) has also provided fire & emergency equipment to Municipal Corporations, Municipalities and the Emergency Response Centres to respond immediately after a disaster.

3.10 Forecasting and warning agencies

The meteorological department undertakes observations, communications, forecasting and weather services. During the cyclone and flood seasons, the State Government keeps close contact with the IMD – Ahmedabad office for weather related forecasts.

Earthquakes occurring in the State which are of magnitude 3.0 and above on Richter scale are also reported by the IMD and ISR to the District Authority immediately.

Initially the District Control Room based at DEOC plays an active roal on diseminating of Forecase and Warnings to line departments, Taluka-City level control Rooms and also ensures to reach with widely spread mass public through Local Media.

DEOC Personnel are well trained on observing IMD weather Satellite images, animated movement of Clouds, Weather Predications, and Hourly Predictions and Costal advisories on daily basis. If certain critical warning issued by metrology department then it is immediate forwarded to SDMs, Mamlatdars, TDOs and COs for further actions.

Alternatively Junagadh Agriculture University has their own Forecasting and Warning department who shares their advisories and warnings by e-mail periodically



Prevention and Mitigation Measures:

4.1. Prevention measures in development plans and programs:

Individual and Community Level:

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;

- Long term planning for mitigation, preparedness and prevention investments in 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 Junagadh 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 Special projects proposed for preventing the disasters

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 Defence, 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 Mobilisation, 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.



4.3 Hazard-wise mitigation measures

In the face of increasing menace of hazards, mitigation would remain the key and the most effective strategy to reduce the risks of these hazards. District has its own mitigation strategy according to its own risks, resources and capabilities. In District Junagadh, there shall be two approaches in disaster mitigation viz. structural mitigation and non-structural mitigation.

Structural mitigation measures generally refer to capital investment on physical constructions or other development works, which include engineering measures and construction of hazard resistant and protective structures and other protective infrastructure.

There are several mitigation activities which will be common for all natural hazards (as discussed in previous chapter). The same are describe below.

i) Town 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 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.

ii) Government-sponsored programmes and schemes:

The State Planning Department will prepare a report on the government sponsored programmes and 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 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.

iii) Building Bye-laws and their implementation:

Proper conceptualization, risk evaluation, proper designing, construction and maintenance of houses and building are all disaster reduction measures. Compliance to building guidelines and codes covering all aspects of disasters needs to be addressed by building codes and bye-laws and these need to be uniform as far as possible. The situation warrants a high degree of coordination between the organizations involved in the formulation of the building codes. The State Urban Development Department/Urban Local Bodies will put in place appropriate techno legal regime and take steps to enhance the capacity of Urban Local Bodies to enforce the compliance of techno-legal regimes. The Urban Local Bodies will ensure stringent implementation of BIS codes and disaster resistant construction practices. Disaster resistant codes and standards will be made a part of the building byelaws and regulations and enforced by the ULBs. The Department of Urban Development will identify a competent authority to certify the disaster resistant components in public buildings.

4.4 Hazard-wise non-structural mitigation measures

The non structural mitigation is basically framed in such a way that the population of the district will be sensitized on disaster management and their capacity is developed to cope up with

a hazardous situation. District Junagadh has specific plan for non-structural mitigation measures which is an ongoing process in various spheres of life.

Non-structural measures refer to awareness and education, policies techno-legal systems and practices, training, capacity development etc. The technical guidelines, design and training manuals should incorporate suitable disaster risk mitigation measures. There are several non-structural mitigation activities which will be common for all natural hazards.

i) Capacity Building for Mitigation:

Recognizing the importance of human resource development and capacity building for effective disaster mitigation, the State will take appropriate steps to develop training curriculum for officials in all sectors at all levels. The SPIPA in collaboration with the Gujarat Institute of Disaster Management and training institutes in related sectors like health etc will develop the required modules and capsules for conducting training at all levels. Efforts will be made by the state government to effectively train engineers, architects, masons etc on disaster mitigation and also create a pool of master trainers for training of the DMC's and DMTs in the state. The District Level Training Institutes, DEOC, BRCs, CHCs etc. will be utilized for training of district, taluka and village level officials in disaster management.

ii) Awareness generation on disaster mitigation:

Creating awareness among the community through disaster education, training and information dissemination and thus empowering them to cope with hazards are all mitigation strategies. The Disaster Management Cell will develop a Mass Media Campaign for taking up large-scale awareness generation bringing out specific do's and don'ts through audio, video and print media as well as publicity through pamphlets, posters, bus back panels at all levels. The District Project Officer will ensure that all these publicity materials are prominently displayed at buildings like PHCs, Community Centres, Schools and such other common places where villagers normally congregate for community activities.

iii) Role of local self-governments in mitigation:

Local self-government institutions like PRIs and ULBs will be the focal points for mitigation at the village and city levels. Members of the PRIs and ULBs will be involved in all preparedness and mitigation measures. Members of the PRIs and ULBs will coordinate the functioning of the DMCs and the DMTs in DM plan preparation, preparation and maintenance of resource inventory, conducting mock drills etc. During disasters also, they will coordinate with the district and taluka administration for evacuation, response, relief distribution etc.

4.5 Specific projects for vulnerable groups

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.

Gujarat School Safety Initiative:

With the view of building capacities for disaster resilience, Gujarat School Safety Programme is a capacity building programme which aims at strengthening of the capacity of school community and it further builds a disaster safety culture among the most vulnerable section of the society, that is, children. Under this programme, Gujarat School Safety Week is celebrated for enerating awareness among school children. Gujarat State Disaster Management Authority has successfully celebrated Gujarat School Safety Week 2019 in all the Government Primary Schools.



CHAPTER – 5

Preparedness Measures:

5.1. Identification of stakeholders involved in disaster response

Preparedness measures go hand in hand for vulnerability reduction and rapid professional response to disasters. Experience has shown that destruction from natural hazards can be minimized by the presence of a well functioning warning system, combined with preparedness on the part of the vulnerable community. A community that is prepared to face disasters, receives and understands warnings of impending hazards and has taken precautionary and mitigation measures will be able to cope better and resume their normal life sooner. The State will make concerted efforts to put in place a mechanism focused towards preparedness at all levels, for all disasters that the State is vulnerable to. The effort will be to reduce loss of lives, livelihood and property to the extent possible in the event of a disaster.

a) State Level:

At the state level, Search & Rescue teams will be constituted from the State Police and will be provided with state-of-the-art equipment for immediate response. The State Home Department will designate the units for conversion into Specialist Response Teams (SRTs). The State will also designate training centres for training the SRTs and nominate key personnel within the Police Training Colleges and Fire Training Institutes as trainers and train them at the national level. These trainers will then impart training to the SRTs.

b) District Level:

Subsequently, Specialized Response Teams at the district level will be designated from the district level Police and Fire Service personnel and equipped for immediate response in any disaster within the district. In the event of a request from a neighbouring district these teams will be authorized to operate under the direction of the Collector of that district.

c) On-site teams:

Disaster Management Teams (DMTs) at the village level will operate as Incident Management Teams and will be trained to perform immediate rescue and first-aid operations in a disaster situation. A systematic approach should be evolved to ensure proper coordination between the SRTs and DMTs.

5.2 Formation of persons and training for -

Junagadh District administration has identified several stake holders from line departments, corporate sectors, NGOs and volunteers in disaster risk management activities. Students, teachers, home guards, police personnel, NCC and NSS students were also involved in trainings. District officers and community were also oriented on their services so that they can give their service at the time of any emergency.
(i) 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 formed as 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.

(ii) 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 Taluka levels will be on a state of alert. The Incident Commander will take charge of the EOC and oversee the dissemination of warning to the community. The District Collector will inform the District Disaster Management Committees who will alert the lock and Village level DMCs and DMTs to disseminate the warning to the community. In situations of emergency, the District Collector will use his own discretion on the preparedness measures for facing the impending disaster.

(iii) 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.

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. 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.

(iv) 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.

Immediately after a disaster event, damage assessment will be conducted in 2 phases viz. Rapid Damage Assessment and Detailed Damage Assessment.

Rapid Damage Assessment (RDA):

Rapid Damage Assessment shall emphasize on a rapid appraisal of the situation and extent of damage to provide resources for effective relief and rescue. Rapid Damage Assessment (RDA) will be conducted at the local level, where the disaster has occurred. The RDA team will be headed by the local Incident Commander and will comprise of the Talti, CMO of the Sub-Division Hospital, Junior Engineer PWD, and some prominent local persons may be involved at the discretion of the local Incident Commander. The RDA team will report to the District Collector its assessment of the damage. The RDA will be conducted according to a proforma/format developed by the State Disaster Management Authority.

Detailed Damage Assessment (DDA):

Detailed Damage Assessment will be done at the district level during the recovery stage involving skilled personnel. The aim of this assessment is to estimate economical and financial aspects of damage, the detailed building damage, agricultural damage, and property damage and also to propose retrofitting or strengthening. The DDA team will be headed by the District Collector and will comprise of the District Relief Officer, Executive Engineer PWD, Chief Medical Officer of the affected district, members of prominent NGOs working in the district and any other expert at the discretion of the District Collector. The DDA team will also have two external observers from the State Disaster Management Authority and DMC Cell of the State ATI respectively. The team will assess the damage on the basis of the format developed in advance by the State Disaster Management Authority in consultation with the DMC Cell of the State ATI and eminent experts in the field.

5.3 Training need analysis

Training Analysis is most often used as part of the system development process. Due to the close tie between the design of the system and the training required, in most cases it runs alongside the development to capture the training requirements.

GIDM has analysed education, training and information needs through interviews and conversations with stakeholders in different parts of Gujarat.

The training need analysis is done considering variable factors of intensity, affected population and severity of damage need to be quickly assessed based on which government and non-government agencies can allocate and deploy relief. All the government line departments who have a stake in different phases of the disaster management will have to identify their roles and carry out training need analysis of their personnel.

5.4 Arrangements for training and capacity building

Training on search and rescue, rehearsals, evaluation and inventory updation for response activities will be carried out during normal time. District collector will ensure that all the DDMC members acquires knowledge and skills to perform their assigned role through regular refresher trainings. Basic and detailed training modules in disaster preparedness have been incorporated along with training methodologies for trainers, for community preparedness and manuals for training at district, block, panchayat and village levels.

For capacity building several Search & Rescue and First aid trainings organized for benificiaries, disaster management teams and committee members tobe trained at village, city, and taluka and district level.

Αсцуну	Responsibility
 Training to civil defence personal in various aspect of disaster management Training to home Guards personal in various aspect of disaster management including search and rescue 	 Home Dept. Commandant General Home Guards Director Civil Defence GSDMA/GIDM
3. Training to NCC and NSS personal in various aspect of disaster management	 Education Dep. Director NCC GIDM
4. Training to educational and training institutions personal in various aspect of disaster management	NIDMGSDMA/GIDM
5. Training to civil society, CBOs and corporate entities in various aspect of disaster management	 NIDM GSDMA/GIDM NGOs
6. Training to fire and emergency service personal in various aspect of disaster management	 NIDM UDD Municipal Corporation GSDMA/GIDM
7. Training to police and traffic personal in various aspect of disaster management	 NIDM GSDMA/GIDM Home Dept. Police training Institute
8. Training to State Disaster Response Force (SDRF) Teams in various aspect of disaster management	 NIDM/NDRF Home Dept. Addl. DGP (Arms) Addl. DGP (Training) GSDMA/GIDM
9. Training to media in various aspect of disaster management	 NIDM Information Dept. Information Training Centre GSDMA/GIDM
10. Training to govt. officials in various aspect of disaster management	 NIDM GSDMA/GIDM Departmental Training Institutes
11. Training to engineers, architects, structural engineers, builders and masons in various aspect of disaster management	 Departmental Training Institutes under R & B and Irrigation Dept. NIDM GSDMA/GIDM

5.5 Activation of Incident Response System in the district

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. The detail on the disaster response structure is mentioned in Para 9 in chapter 1.

The NDMA guidelines provide for emergency organizations where different departments, agencies and even private resources (e.g. industries) temporarily align their priorities with the

emergency response objective under a unified command. This system is called Incident Response System (IRS) and discussed in detail in the text. It is important to recognize that organization under the IRS and the existing structures of the LCG and DCG are not in conflict although there can be differences in terminologies for some positions in the emergency organization. The IRS gives an emergency organization structure called Incident Response Teams (IRTs) that are predesignated as per the identified emergency sce narios. While there is a general structure, IRTs are not prescriptive about who must fulfill what position or role instead the decision rests with the local or district level authorities. Therefore the organizations and people that are given specific roles as per existing LCG and DCG structure can be given similar roles or positions in the IRT structure and a coordination between IRTs as per IRS and those as per existing LCG/DCG structures is achieved. The IRS provides additional advantages of being scalable by including additional and higher levels of response in the same unified command structure being flexible by transferring command and other sections of IRS to qualified people as scale and nature of emergency changes, and with a unified command so that there is one authorized, and accountable (technically qualified) incident commander and the command can be transferred up as the scale of emergency increa ses. The IRS also requires documentation of decisions, actions, and learning so that not only continuous improvement can be achieved but also accountability is fixed.

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.

5.6 Protocol for seeking help from other agencies...

(State Government, Govt. of India, NDRF, SDRF, Army, Navy and Air Force etc...)

For the management and control of the adverse consequences of any disaster will require coordinated, prompt and effective response systems at the central and state government levels, especially at the district and the community levels.

There are various agencies / organizations / departments and authorities that constitute a core network for implementing various disaster management related functions / activities. It also includes academic, scientific and technical organizations which have an important role to play in various facets of disaster management. These agencies (State Government, Govt. of India, NDRF, SDRF, Army, Navy and Air Force) shall be called upon to assist the civil administration only when the situation is beyond the coping capability of the State Government.

5.7 Checking and certification of logistics, equipments and stores

Certification of 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 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 incent management team. This section includes 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).

5.8 Operational check-up of Warning System

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. Experience has shown that destruction from natural hazards can be minimized by the presence of a well functioning warning system. Operational check-ups of warning system in district have been done annually by concerned departments and also during mockdrills initiate during monsoon.

5.9 Operational check-up for Emergency Operation Centre

Apart from Disaster Management developments, District have its Emergency Operation Centre (DEOC) has been started functioning in the Sardar baug campus, Near to Collector Office of Junagadh with all sophisticated equipments and most modern technologies for disaster management. The Additional Collector of District Junagadh is empowered as a Nodal Officer of DEOC and is responsible for Operational check-up for Emergency Operation Centre that includes...,

1. Ensure that all equipments in the EOC are in working condition;

2. Collection data on routine basis from line departments for disaster management

- 3. Develop status reports of preparedness and mitigation activities in the district;
- 4. Ensure appropriate implementation of District Disaster Management Plan
- 5. Maintenance of data bank with regular updating
- 6. Activate the trigger mechanism on receipt of disaster warning/occurrence of disaster

5.10 Seasonal inspection of facilities and critical infrastructure

The above all responsible Departments / Personnel shall have to carry out periodic inspection of such facilities through their respective control rooms at the frequency set by them and maintain records on the same.

Normally as a pre-monsoon drive in month of April-May, an instruction passed to all departments to carry out seasonal inspections and submit report to DEOC before the pre-monsoon meeting held at collector office chaired by District Collector. Based on report received from agencies, a compiled and consolidate report of all Facilities and Critical infrastructure has been submitted to State EOC every year.

5.11 Command and coordination – identification of quick response teams

Command and coordination of quick response teams 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,

1. Public Information Officer - the single media point of contact

2. Safety Officer – Responsible for identifying safety issues and fixing them, he has the authority to halt an operation if needed.

3. Liaison Officer – Point of contact for agency to agency issues.

If the local authorities does not have the capacity to play an efficient role at local level to identification of quick response teams and the 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:

- 1. Field command
- 2. Field information collection
- 3. Inter agency coordination at field level
- 4. Management of field operations, planning, logistics, finance and administration

5.12 NGOs and other stakeholders coordination – Activate NGO coordination cell

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

It is a duty of every citizen, NGOs and stakeholders 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.

NGOs of District are working on targeted community or limited to certain specific areas. They are coordinating with district EOC only on direct approch or on allocation of specific tasks.

5.13 Seasonal preparedness for seasonal disasters like flood and cyclone

While analyzing the past experiences pertaining to various natural disasters, communities develop the seasonality calendar based on the occurrence of disaster events. In the calendar below prepared by the community show the month of the disaster occurrence & month for preparedness.

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Flood					\checkmark				\checkmark			
Cyclone			\checkmark	\checkmark	\checkmark						\checkmark	
<u> </u>									1	•	,	

Main Seasonal Preparedness Strategies:

1. Mapping of the flood prone areas is a primary step involved in reducing the risk of the region. Historical records give the indication of the flood inundation areas and the period of occurrence and the extent of the coverage. Warning can be issued looking into the earlier marked heights of the water levels in case of potential threat.

2. The onset of cyclones is extensive and often very destructive. A hazard map will illustrate the areas vulnerable to the cyclone in any given year.

3. The map is prepared with data inputs off past climatologically records, history of wind speed, frequency of flooding etc.

4. Land use control will reduce the danger of life and property when waters inundate the flood plains. In areas where people already have built their settlements, measures should be taken to relocate to better sites so as to reduce vulnerability. No major development should be permitted in the areas which are subjected to high flooding. Important facilities should be built in safe areas.

5. Construction of engineered structures in the flood plains and strengthening of structures to withstand flood forces and seepage. The buildings should be constructed on an elevated area. If necessary build on stilts or platform. They should be wind and water resistant. Protect river embankments. Communication lines should be installed underground. Provide strong halls for community shelter in vulnerable locations.

6. Flood Control aims to reduce flood damage. Measures such as reforestation, protection of vegetation, clearing of debris, conservation of ponds and lakes, etc.

7. Structural measures include storage reservoirs, flood embankments, drainage channels, antierosion works, detention basins, etc. and non-structural measures include flood forecasting, flood proofing, disaster preparedness, etc.

5.14 Community awareness, education and preparedness

Community is the first and last to face the disaster. Equipping them, educating and preparing them for the recurring disasters are of vital importance. The most vulnerable areas are to be identified and periodic awareness programme are to be provided at the Ward level, Panchayat level, Educational Institutions, Social Organizations etc. It is essential to examine the various methods in which the community can be effectively involved in planning for disaster management. A community which is aware and well equipped to handle disasters will boldly face them.

Community awareness will be raised regarding do's and don'ts with the involvement of Panchayati Raj institutions and CBOs. Revenue department will be the nodal agency for this activity. Increasing community awareness about the mitigation measures that can protect the lives and properties from the hazards.

Community Awareness on Various Disasters can be classified in 1. Construction of Earthquake Resistant Structures, 2. Retrofitting the weak structures, 3. House insurance, 4. Construction of embankments for flood control, 5. Rehabilitation of people in safe lands, 6. Development of plans for shifting people from vulnerable area to safer area etc. The Community awareness task can be performed by, Advertisement, hording, booklets, leaflets, banners, shake-table, demonstration, folk dancing and music, jokes, street play, exhibition, TV Spot, radio spot, audio-visual documentary and school campaign.

5.15 Community warning system

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. A community that is prepared to face disasters receives and understands warnings of impending hazards and can able to cope better and resume their normal life sooner.

Community Warning Action Plan	Flood	Cyclone	Chemical and industrial accidents	Tsunami
Existing Community warning system	Irrigation department / IMD ♥ Collector ♥ Mamlatdar/TDO ♥ Villages	IMD ↓ Collector ↓ Mamlatdar/TDO ↓ Villages	Industrial Association/ industries ↓ DCG ↓ LCG ↓ Mamlatdar	IMD ↓ Collector ↓ Mamlatdar/TDO ↓ Villages
Responsible Agency for warning dissemination	Mamlatdar office/TDO	Mamlatdar office/TDO	Mamlatdar office/TDO	Mamlatdar office/TDO

5.16 **Procurement (Tents, blankets, tarpaulins, equipment etc.)**

Facilitating procurement related to disaster management of materials, equipment and services in connection with the disaster management and ensuring their quality is lies with the State authority. At present District has no fund or any instructions to procure such things locally. State authority has the power to authorize the departments or authorities concerned, to make emergency procurement of provisions or materials for rescue and relief in a threatening disaster situation or disaster, or alternatively can arrange for centralise procurement of additional relief material required for relief operations (on the basis of need assessment).

5.17 IDRN / SDRN updation

SDRN (State Disaster Resource Network):

The State Disaster Resource Network (SDRN) system has three layers namely Village, Municipality and Taluka. The level specific data is collected in the standard disaster management plan format and uploaded in to the system either at taluka or district level. The centrally stored database in the server located at GSDMA, Gandhinagar can be accessed through internet portal (http://117.239.205.164/SDRN_NEW/Login.aspx) and GSDMA Web Site (www.gsdma.org).

Each user of all talukas of the State has been given unique username and password through which they can perform data entry, data updation on SDRN for their Village, Taluka or City. Status reports are also generated showing the status that how many forms, records are entered on SDRN. The Village level officers should be contacted to know the status of the shelters with the capacity of the shelter and other available facilities at the site.

SDRN Online Updation Status

Village Disaster Management Plans (VDMP)

Taluka Name	Total Villages	Updated	Last Date of Update	Updated in 2024
Total-10	540	540	05-01-2024	Yes

	City D)isaster Man	agement Pl	ans (CDMP)			
City Name Taluka Name Total City Updated Last Date of Update 2024Updated							
Total City -8	Total Taluka-7	8	8	11-06-2023	Yes		
Taluka Nama	Taluka Total Talu	Disaster Ma	nagement]	Plans (TDMP)	Undeted in 2024		
Taluka Name Total Talu		ka Upda	ted Last Date of Opdate		Opuated in 2024		
Total Taluka	-10 10	09		08-06-2021	Yes		

IDRN (India Disaster Resource Network):

IDRN is 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 situation.

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.

STATE NAME	DISTRICT NAME	Records uploaded	No. of Items identified	
Gujarat	Junagadh	Total Records = 515	85	

IDRN Online Status

5.18 **Protocol and arrangements for VIP visits**

It is important to immediately inform VIPs and VVIPs on impending disasters and current situation during and after disasters. Appeals by VIPs can help in controlling rumours 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.

5.19 Media management / information dissemination

Media management utilised to ensure precise communication of the impact of disaster and relief measures being taken and generate goodwill among community and other stakeholders. Ensure that the information about progress of rescue and relief is provided to media/public in an organized manner at least twice a day. Establish help lines for facilitating communication between the victims and their relatives residing outside the affected area/s. Establish Information Centers at strategic locations for providing information about persons evacuated to the relief centres/ hospitals. Establish Media/Press Centre for media management and information dissemination. Ensure that the information to media/general public about the response of the State Government is released in an organized manner along with following points.

- 1. Broadcast programs to raise people's awareness of disaster prevention measures
- 2. Develop news sources in emergency situation
- 3. Publicize station frequency
- 4. Broadcast public planning meetings
- 5. Compile local knowledge on signs of impending disaster and share it with community
- 6. Broadcast emergency evacuation announcements
- 7. All announcements broadcast in a reassuring and calm manner

5.20 Documentation

Documentation of all response/relief and recovery measures should be done with -

- Documentation of disasters and to make it available in easy accessible format
- Undertake research studies and application of outcomes in disaster management practices

- Documenting field data, experience and indigenous technological knowledge from local community

- Development of plan by using available resources like SDRN, IDRN, etc.

- Assimilate all reports and transaction of information during the disaster for easy documentation



CHAPTER - 6

Response measures (Multi-Hazard):

Response measures are those which are taken instantly prior to, and following, a disaster aimed at limiting injuries, loss of life and damage to property and the environment and rescuing those who are affected or likely to be affected by disaster. Response process begins as soon as it becomes apparent that a disastrous event is imminent and lasts until it 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 vision about hazards, its consequences and actions that need to be taken in the event of it.

6.1 Response flow chart

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 disasteraffected area under GSDMA Act (Section 32 (2) (a))



6.2 Warning and alert

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 situation.

The details of agencies competent enough for issuing warning or alert pertaining to various types of disasters are given below;

Disaster	Agencies
Earthquakes	IMD, ISR
Floods	IMD, Irrigation Department
Cyclones	IMD
Tsunami	IMD, ISR, INCOIS
Drought	Agriculture Department
Epidemics	Health & Family Welfare Department
Industrial & Chemical Accidents	Industry, Labour & Employment Department, DISH
Fire	Fire & Emergency Services

6.3 District CMG meeting

The Collector & DM is responsible to hold regular CMG meetings on disaster management including government, NGOs and private sectors. The CMG Committee held various meeting and had detailed interaction with members and management of Crisis. The Junagadh District level Pre-Monsoon and CMG Meeting for all District level departmental heads along with Mamlatdars, Chief Officers and TDOs was called, chaired by Collector-Junagadh, DDO-Junagadh and Resident Additional Collector-Junagadh.

6.4 Activation of EOC

The disaster response is led by the District Emergency Operation Centre (EOC) under the command and control of the District Collector. It is also the central point for information gathering, processing and decision making more specifically to combat the disaster. Most of the strategic decisions are taken in this control room with regard to the management of disaster based on the information gathered and processed. The Incident Commander takes charge at the District Control Room and commands the emergency operations as per the Incident Command System organizational chart.

Emergency Operation Centre (EOC) of District is operational at Sardarbaug, Junagadh and is operational on 24x7 round the clock for 365 days in 3 shifts of 8 hrs with the help of staff deputed from local government offices. Control rooms of line departments and Taluka EOCs (located at the Office of Mamlatdar) are active from 1st June, 2023 for Monsoon Season and will be operational till 31th October, 2023. The Liaison Officers of the respective Talukas shall take charge of the Control Room. The respective Liaison Officers shall coordinate between the task group members working at disaster sites and TEOC for mobilization of resources and dissemination of instructions received from TEOC/DEOC.

6.5 Response planning, preparedness, assumption – Quick assessment of damages / need

Response planning:

Response planning can help mitigate the destructive effects of a disaster by ensuring timely and effective provisions of humanitarian aid to those most in need. "Time spent in disaster response planning equals time saved when a disaster occurs". Effective response planning requires realistic identification of likely response functions, assignment of specific tasks to individual response agencies, identification of equipment, supplies and personnel required by the response agencies for performing the assigned tasks.

Considering all this points, this response plan has been developed. For the first time Incident Command System (ICS) has also been introduced in response plan along with the resource inventory that is directly linked to the website. In fact, during disaster the ICS management tool will be more effective to handle the situation in proper way within limited time. The plan incorporate multi level institutional as well as Response plan mechanism at district level.

Preparedness:

Preparedness measures go hand in hand for vulnerability reduction and rapid professional response to disasters and assist all the government departments to plan and prioritise preparedness activities while ensuring active community participation. Preparedness 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 that is preparedness.

The main objectives of various preparedness measures are: -

i) Minimizing the loss of human lives.

ii) Minimizing the loss of livestock.

- iii) Minimizing the loss to property and infrastructure.
- iv) Minimizing ill effects on the health of affected population.
- v) Bringing the human activities in the locality to normal condition soon after.

In situations of emergency, the District Collector will use his own discretion on the preparedness measures for facing the impending disaster.

Situation Assumptions:

- 1. There would be a congestion in the network because of increased calls to control rooms due to panic created in the community.
- 2. The initial reports on damage may not give a clear picture of the extent of damage to communication network.
- 3. The affected site may cut off from the state control rooms and the officials on site and find difficulty in communicating to the District/State EOC.
- 4. Police wireless network will only be the reliable communication network till the other communication networks are fully restored.
- 5. Local community task forces will initiate search and rescue at residential level.
- 6. Spontaneous Volunteers and QRT will require coordination
- 7. Access to affected area will be limited

- 8. Some site may be accessible only through air route
- 9. Most of the buildings would be damaged and would not remain safe for citizens.
- 10. Many structures would be damaged and there would be an urgent need to evacuate.
- 11. There would be panic and people will gather at a place.
- 12. The crowds may go out of control or Riots may also take place.
- 13. Emergency Medical services will be required by affected population.
- 14. Likely outbreaks of epidemic diseases after the disaster.
- 15. Hospital services would be affected.
- 16. Existing water storage bodies will be damaged and unusable.
- 17. There would be an urgent need of water to assist victims in rescue operation.
- 18. Break down of sanitation system.
- 19. Contamination of water due to outflow from sewers or due to breakage of water pipelines.
- 20. The communication with affected area may be partially impaired.
- 21. The movement of relief supplies will create congestion in the transportation services.

Quick assessment of damages and need:

Various spatial data with socio-economic, housing, infrastructure and other variables that can provide a quick assessment of the risks and vulnerabilities of disasters based on which appropriate mitigation strategies can be developed. Based on primary data...

- 1. IC will call and activate the District Quick Response Team. Will done Quick Assessment of the S& R operations through Aerial surveys.
- 2. The Nodal Officer from Police will activate the Quick Response teams and will done Quick assessment of law and order situation in affected areas.
- 3. GWSSB nodal officer will activate their quick response teams for Quick assessment of water line damage and Quick assessment of water contamination levels and taking steps to restore clean drinking water.
- 3. Chief Officers, TDOs and Taluka Mamlatdars will do Quick assessment of damaged areas and areas that can be used for relief camps for the displaced population. Coordinate with the Government agencies for quick assessment of evacuation needs such as the number of people to be evacuated and mode of evacuation
- 4. DDDO of district will make a quick assessment of the damages and losses caused by the disaster in the affected area as regards the population, agriculture, infrastructure, livelihoods and environment.
- 5. DEOC will Instruct Quick Assessment Task Force to submit preliminary need and loss assessment report of the affected areas.

6.6 Warning dissemination

The dissemination of warning is the most critical function in order to give early warning to the community. It has to be fast in order to give reasonable amount of time for communities to

prepare for any eventuality. Due consideration has to be given to the points mentioned below before sending across the information.

- 1. Warning dissemination will be done to all the important stakeholders (as given below in the information dissemination format) at the Panchayat level in rural areas and Nagarpalika level in urban areas for early warning communication.
- 2. Making use of the fastest means to communicate the message in the most lucid manner so as to prevent spread of rumor and panic among the masses.
- 3. Bulk Voice SMS Service is the best means of communication to large masses without any effort and within no time. A voice recorded message from the District Magistrate from official number shall be sent to the database of numbers identified for information dissemination with the help of Mobile service providers & Telephone department.
- 4. DEOC will incorporate to arrange dissemination of information through various means of communication such as Radio, TV, Cable Network, and SMS about warnings to districts/areas which are likely to be hit by disasters.
- 5. Dist. Collector and Information Dept.will Ensure dissemination of information to remote areas by local means. They will also ensure that local TEOC help lines are opened and effectively managed for public information, guidance and rumor control.

As soon as the warning of an impending calamity is received, the EOCs at the State, District and Block levels will be on a state of alert. The Incident Commander will take charge of the EOC and oversee the dissemination of warning to the community. The District Collector will inform the District Disaster Management Committees who will alert the lock and Village level DMCs and DMTs to disseminate the warning to the community.

6.7 Resource mobilization

Taluka authority will try their best to contain the situation with the available local resources. However, if they find that the situation is beyond their control and the district level resource mobilization is required, they will seek the help of their superiors or call the meeting of Disaster Management Committee.

Through online SDRN and IDRN computerized and web based IT solutions can be used for resource mobilization and deployment of trained members. This decentralized system presents many advantages such as the easy availability of the resources and plans at all levels, minimum duplication and time saving and finally the visual data reports generation that assists in gap analysis and resource mobilization.

6.8 Seeking external help for assistance

TEOC will inform DEOC if external help/resources are needed. District Collector will decide if any external help (out of district) is required for immediate priorities. If required, liaise with the state, national and international agencies for mobilization of additional resources and will make arrangement to avail the external helps to manage to disaster.

6.9 First assessment report

DEOC instruct Quick Assessment Task Force to submit preliminary need and loss assessment report of the affected areas. Quick assessment Team will submit First Assessment Report to District Collector duly signed by Taluka Liaison Officer. DEOC will collect preliminary first assessment report from the onsite EOCs and submits district's compiled report to State EOC.

To make a first assessment report of damage, the assessment report will contain the following basic elements or activities...

- 1. Human and material damage
- 2. Resource availability and local response capacity
- 3. Options for relief assistance and recovery
- 4. Needs for national / international assistance

6.10 Media management / coordination / information dissemination

Media management:

The role of media (print & 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. Collector office Junagadh has established an effective system of collaborating with the media 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 Taluka Control room at Mamlatdar office.

Information dissemination and Coordination:

Dessemination of information is the prime duty of information department in coordination with DEOC, Revenue and District Panchayat offices during any emergency. Functions of information department during Emergency are...

- 1. Collect correct information from authorities onsite.
- 2. Keep the list of persons recued with full details.
- 3. Keep the list of persons missing.
- 4. Keep the no. of dead bodies and the locations they have been kept.
- 5. Keep a track of which team is positioned with location.
- 6. Make use of the public address system to call anyone.
- 7. Schedule working in short duration Evacuation & Shalter.
- 8. Establish Press Centre for media management and information dissemination
- 9. Ensure that the information to media/general public about the response of the State Government is released in an organized manner.
- 10. Organize media briefing twice a day at predetermined intervals.

6.11 Emergency Response Functions:

(Evacuation, Search and Rescue, Cordoning the area, Traffic control, Law & order and safety measures, Dead body disposal, Carcass disposal)

Effective response planning requires realistic identification of likely response functions, assignment of specific tasks to individual response agencies, identification of equipment, supplies and personnel required by the response agencies for performing the assigned tasks. Response functions essentially outlines the strategy, resources needed, evacuation, search & rescue, etc.

Evacuation:

In many emergencies, local authorities would set up public shelters in schools, municipal buildings and places of worship. While they often provide water, food, medicine and basic sanitary facilities.

Search and Rescue:

At district level whatever help would be required during disaster that will be immediately informed to the various departments by the district collector and possible support NGOs and other line agencies in the district would be tapped up. If the District Collector thinks that it cannot cope with the disaster then he can ask help from the defence and paramilitary force.

Cordoning the area:

SDM and Police department will cordoning off affected areas for restricting entries of rail or road traffic and instruct to cordon affected areas and setting up of check posts to control entry and exit. The DSP will send instructions for the cordoning off of the area. People should not be allowed access anywhere close to the site of the disaster.

Traffic control:

The Superintendent of Police will co-ordinate the work of Traffic control and Traffic arrangements towards the disaster affected areas. Traffice cell also has responsibility for the ground transportation of personnel, supplies, and equipment and make alternate arrangements to open the roads to traffic at the earliest.

Law & order and safety measures:

Collectorate and SP office is 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 taskforce which may be created to deal with a disaster with sufficient safety measures. It will arrange law and order against theft in the disasteraffected area and co-ordinate with the search and rescue operations. It will also arrange for security at the relief camps/relief material storages. It is also responsible to maintain law and order at the time of distribution of relief material.

Dead body disposal:

The health department will immediately start the procedure for post mortem of the dead persons as per the rules. Disposal of dead bodies is to be carried to prevent the outbreak of epidemics. Arrangement should be made to issue death certificates of the deceased to the relatives.

Carcass disposal:

The animal husbandry departments with necessary equipments in case of cattle death are there in the affected areas for the disposal of carcass with a view to restoration of public life and result oriented work.

6.12 Humanitarian Relief and Assistance:

[Food, Drinking Water, Medicines, Trauma care, Clothing, Other essential needs, Shelter Management, Providing helpline, Repairs and restoration of basic amenities (e.g. water, power, transport etc), Management of VIP visits]

The Indian government uses the terms "humanitarian assistance" or "disaster relief" to refer to activities that address human suffering caused by natural disasters like cyclones, droughts, earthquakes or f loods. Humanitarianism lies at the heart of Indian spiritual and cultural values. Hinduism, Buddhism, Islam and Sikhism all espouse solidarity with the suffering and giving without expectations for return. The Hindu term daan, for example, emphasizes the self less

nature of giving. In fact, the sacred Hindu scripture Bhagavad Gita preaches that "there should be no motive in charity and there should be no aim, direct or indirect". These spiritual traditions influence the humanitarian impulses of Indian decision makers. India conceives humanitarian assistance as "extending sympathy" to the disaster-affected. Because of India's deep cultural tradition of giving, the population generally endorses relief efforts by the government.

UN agencies and international NGOs will operating in the country at the time of the disaster event will be allowed to provide humanitarian assistance to people in the affected area in coordination with the concerned Ministries/Departments and the State Government under existing protocol in place. Guidelines of the IFRC on international humanitarian assistance will be the guiding factor in facilitating external assistance. External assistance will be provided in a responsible and coordinated manner to minimise its impact on local resources as well as ensure good quality and accountability standards.

In case of large scale emergency collector will establish relief coordination centre at the airport, railway station, etc. for arrival of Search & Rescue and Medical Teams coming for humanitarian aid.

6.13 Reporting:

The occurrence of disaster may be reported by the concern monitoring authority to the District Collector by the fastest means. 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.

Information management:

Control room is a nodal centre in terms of disaster Management which performs the function of collecting and transmitting information to the appropriate places and people. Therefore Control room has to be equipped with the latest telecom communication facilities. All the important information of the district administration in case of emergency is also available in the control rooms. The control room is connected with all the line departments, collectorate, NGOs, police control room, and block control room which is connected to village task force and irrigation control room. Collector controls all the information flow through control room in the district and with the state authority.

Situation reports:

All the situation reports of area, village, city or taluka received at the SDM or DEOC will be communicated to the Nodal officer, who based on the available information, if seems fit, will activate DEOC in the emergency mode.

Resident Additional Collector will report the occurrence of emergency to Collector, Relief Commissioner, GSDMA and SEOC. By receiving through Taluka Control rooms, DEOC will constant reporting of pre and post disaster work to SEOC and GSDMA.

Village Talatis are responsible to submit situation/action taken report immediate to Mamlatdar and TDO. Mamlatdars, TDOs and Chief Officers are responsible to communicate the immediate emergency as well as updated situations to Liaison officers, SDMs and Resident Additional Collector and detail report should submits to DEOC in time manner.

Death, Casulty, Emergency & Primary reports should submit immediate with Top Priority in Primary Situation Report format developed by SEOC. ABCD, MHA, Detail Emergency update reports should submit on Daily Basis by Taluka Mamlatdar and District Panchayat to DEOC and same compiled report should reach to SEOC.

Media release:

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) of collector office at district.

6.14 Demobilization and winding up:

An emergency plan is not complete without specific demobilization and post-incident winding up review procedures. Specific demobilization guidelines provide organized and agreed-to procedures to help facilitate and more organized and expedited return to normal operating conditions, and help to minimize costs by standing down response resources in a timely manner.

Issues to consider for demobilization include: 1. Do not release or demobilize response resources unless approved by the On-Scene Incident Commander, 2. Assign personnel to identify surplus resources and probable resource release times, 3. Establish demobilization priorities, 4. If necessary, develop a Disposal Plan for the disposal of hazardous materials or wastes, as necessary and 5. Plan for equipment repair and maintenance services, as necessary.

(i) Documentation:

Documentation of an emergency incident is a critical part of an emergency plan. Documentation must be specific to the incident. However, the following topics can provide guidance as to necessary documented information: 1. When/where did incident take place, 2. Was an evacuation called for, and if so, how much time was required to evacuate all personnel?, 3. Were communication methods effective?, 4. Did on-site equipment satisfy equipment needs? If not, what additional equipment was brought to the site? 5. Did local jurisdictions assist in the emergency response? If so, did they offer suggestions for improvement?

(ii) Success stories:

Developing a success story requires the right questions, through the eyes of an individual or several individuals, of positive impact. The key questions and steps are as follows. 1. Provide Background Information, 2. Describe the activity, 3. Give Details of What Happened in the Activity, 4. Give the Results Achieved as a Consequence of the Activity, 5. Give a Quote from the Participant, 6. Labeling Pictures and Writing Captions.

(iii) Lessons for future

Each organization will provide activities undertaken and lessons learned report during any disaster response operations. The lessons learnt from the past will be utilised while updating the plan, formulating DM strategy, for future references and for training purposes.



CHAPTER – 7

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 utilised for building a better and more safe and resilient society.

7.1 General Policy Guidelines:

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, and power supply and sanitation facilities.

The approach to re-construction and recovery is guided by the National Disaster Management Policy 2009 of which salient clauses / sections are stated in the following para.

Section 9.1.1 of the NPDM states that - the approach to the reconstruction process has to be comprehensive so as to convert adversity into opportunity. Incorporating disaster resilient features to 'build back better' will be the guiding principle. The appropriate choice of technology and project impact assessment needs to be carried out to establish that the projects contemplated do not create any side effects on the physical, socio-cultural or economic environment of the communities in the affected areas or in their neighborhood. Systems for providing psycho-social support and trauma counseling need to be developed for implementation during reconstruction and recovery phase.

Section 9.2.1 of NPDM states that - Reconstruction plans and designing of houses need to be a participatory process involving the government, affected community, NGOs and the corporate sector. After the planning process is over, while owner driven construction is a preferred option, contribution of the NGOs and corporate sector will be encouraged. Reconstruction programme will be within the confines and qualitative specifications laid down by the Government.

Section 9.3.1 states - Essential services, social infrastructure and intermediate shelters/camps will be established in the shortest possible time. For permanent reconstruction, ideally, the work including the construction of houses must be completed within two to three

years. Concerned Central Ministries/Departments and the State Governments should create dedicated project teams to speed up the reconstruction process.

Section 9.3.2of NDMP states - that - Contingency plans for reconstruction in highly disaster prone areas need to be drawn out during the period of normalcy, which may include architectural and structural designs in consultation with the various stakeholders.

As per the section 9.5.1 of NPDM – the State governments will have to lay emphasis on the restoration of permanent livelihood of those affected by disasters and special attention to the needs of women-headed households, artisans, farmers and people belonging to marginalised and vulnerable sections.

7.2 Detailed damage and loss assessment

The moment an emergency condition subsides, rapid and thorough Detailed damage and loss assessment is to be conducted to know the overall damage to critical public facilities, homes, businesses and other services within the affected area(s); and to determine whether those damages are sufficient to warrant emergency assistance.

A detailed assessment must be conducted before commencing reconstruction and rehabilitation activities. The relevant Government departments and local authorities shall initiate detailed assessment at their respective level for damages sustained in housing, industry/services, and infrastructure, agriculture, health / education assets in the affected regions. Immediate recovery can continue from a day to two months, depending upon the extent of damage.

The assessment teams are to report the following information to the Disaster Management Department in the Office of Collectorate for further action.

- \Box Boundaries of the disaster(s). \Box Access point(s) to the disaster area(s).
- □ Status of the transportation system.
- □ Disaster casualty information
- □ Shelter / mass care information
- □ Status of critical facilities

- □ Status of communication system
- □ Status of medical systems
- □ Damage to utility system
- \Box Status of security within the affected area(s)

 \Box Information on the humanitarian organisations within the area(s)

Conducting Detailed damage and loss assessment in the aftermath of sever incident includes, Individual damage assessment as well as Public Damage assessment which includes (but not limited to) 1. Damage to road, streets and bridges, 2. Damage to water control facilities such as drainage system, water channel etc., 3. Damage to public buildings and equipment, 4. Damage to public utilities, 5. Damage to parks and recreational sites and 6. Managing Debris.

Recovery has two phases i.e. Short term and Long term Recovery. Class I officers from various line departments are deputed as Liaison Officers for each Taluka, and they are responsible for monitoring and working with the local administration in both phases of recovery operations under the guidance of the District Collector.

7.3 Short-term recovery program

Short-term recovery phase starts during the first hours and days after an emergency event. The principal objectives are to restore the necessary structural [facilities, critical systems/ infrastructure, roadways and grounds] and non-structural, (power, water, sanitation, telecommunications).

The Short-term recovery with urgent measures to be undertaken includes the following:

a) Roads and Bridges: This covers construction of all critical roads and bridges necessary to provide connectivity with immediate effect.

- b) Drinking Water Supply: Restoration of Drinking Water supply has to be done by setting up of new hand pumps, tube wells or setting up of piped water supply in areas with no access to potable water. In case of floods, setting up of raised hand pumps is required.
- c) Electricity: Restoration of power supply is also critical to immediate recovery.
- d) Communication Network: After disasters, communication networks may be disrupted. The networks of mobile services providers have to be put back in operation at the earliest to make search and rescue easier, as well as to expedite coordinated response measures.
- e) Reconstruction & Repair of Lifeline Buildings: Lifeline buildings are those necessary to keep the administrative machinery functioning despite the damage by disaster have to be repaired on priority.
- f) Rehabilitation: In case there is a major damage from earthquake or flooding, a large segment of the population may have to be rehabilitated to new locations on a temporary basis. Communities will have to be supported with relief shelter.
- g) Mass Care/Sheltering and Housing: The management of relief shelters is continued from the response phase to the immediate recovery phase. During this period, the number of victims must be identified for whom construction of houses under Indira Aawas Yojna & Sardar Awas Yojna shall be sanctioned.
- h) Food: Supply of food in relief phase is more important. It becomes important to elicit support from various NGOs, Grain merchants and volunteers.
- i) Debris Removal and Disposal of Dead Bodies: Removal of debris or trees from transportation routes for effective rescue and relief measures.
- j) Drainage and Sewage: Drainage and sewage systems will have to be quickly reestablished to decrease inundation from floods, spread of diseases and epidemics and maintaining hygiene.
- k) Health Care: First Aid and Emergency Health care has to be provided at the earliest. In case the health care centers are affected by the disaster, temporary medical relief camps need to be installed while the building is retrofitted or reconstructed. Mobile Medical Units have to be pushed into action for immediately health care close to the community.

7.4 Long-term recovery program

Long term recovery efforts must focus on redeveloping and restoring the socio-economic viability of the disaster area(s). The reconstruction phase requires a substantial commitment of time and resources by government and non-governmental organisations. Important to note here is that much of this commitment would be beyond the scope of traditional emergency management activity programmes. The activities involved would most often be the result of a catastrophic event that has caused substantial, long term damage over a very large area. These efforts include:

- 1. Long term reconstruction of public infrastructures and social services damaged by the disaster.
- 2. Re-establishment of adequate housing to replace that which has been destroyed.
- 3. Restoration of jobs that was lost.
- 4. Restoration of the economic base of the disaster area(s

CHAPTER – 8



Financial Arrangements:

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

8.1 Financial resources for implementation of plan:

(According to ACT No. 53 of 2005 – the Disaster Management Act, 2005, Chapter IX, Finance, Account and Audit.) 48-Establishment of funds by the State Government:

The State Government shall immediately after notifications issued for constituting the State Authority and the District Authorities, establish for the purposes of this Act the following funds, namely :-

a) the fund to be called the Disaster Response Fund;

b) the fund to be called the Disaster Mitigation Fund;

(i) National, State and District Disaster Response Fund:

- * The Ministry of Finance has allocated funds for strengthening Disaster Management Institutions for capacity building and response mechanisms, as per the recommendation of 14th Finance Commission.
- * To carry out Emergency Response & Relief activities after any disaster the State Disaster Response Fund is made available to Commissioner of Relief, Revenue Department under which the Central Government will share 75% and the Govt. of Gujarat has to share 25%.
- * To provide for relief for famine, drought, floods and other natural calamities, Response Fund are provided in the state budget under the head "2245-Relief on account of Natural Calamities". Besides establishment charges, funds are provided for the grant of gratuitous relief in the shape of concessional supply of food, cash payment to indigent persons, cash doles to disabled supply of seed, fodder, medicines, prevention of epidemics, provision for drinking water, transport facilities for goods and test relief works as at District level.

(ii) National, State and District Disaster Mitigation Fund:

- * At the National level, Prime Minister's Relief Fund was created shortly after Independence with public contribution to provide immediate relief to people in distress for Disaster Mitigation:
 - a. Immediate financial assistance to victims and next of kin.
 - b. Assist search and rescue.
 - c. Provide Health care to the victims.
 - d. Provide Shelter, food, drinking water and sanitation.
 - e. Temporary restoration of roads, bridges, communication facility and transportation.
 - f. Immediate restoration of education and health facilities.
- * At the state level, provisions have been made to provide immediate support to the distressed people affected by natural calamities and road, air and railways accidents under the Chief Minister's Relief Fund for Disaster Mitigation.
- (iii) Financial sources available for different components of disaster management

Name	Purpose	Financial Arrangements	Activities	Nodal Agency
NDRF (NCCF)	Relief Assistance	100% Central Government	Cash and kind relief	Revenue Department
SDRF (CRF	Relief Assistance	75% Centre, 25% State	Cash and kind relief	Revenue Department
Planning Commission (14th Finance Commission)	Capacity Building	100% Centre	Training, Awareness Generation, IEC Material, Mock drills.	Revenue Department
State Fund	Capacity Building	100% State	Training, Awareness Generation, IEC Material, Mock drills.	GSDMA
Line Department Funds	Preparedness and Mitigation	Budgetary Allocation	Activities falling in purview of departments for DRR, Preparedness and Mitigation	Line Departments
District Planning Fund	Any Public works	MP and MLA aid and grants	Preparedness, Mitigation capacity building, recovery	Local Bodies, Line Departments
External Institutional Funding	Projects on DRR, Recovery, Mitigation and Preparedness	Total external or bilateral or multilateral arrangements	Infrastructure up- gradation Technological interventions and technical studies DRR projects.	Revenue Department
Donor	Any	Total Donation in cash and kind	Any	DDMA / GSDMA
CSR	Corporate	2% of Profit	Any	Charity Commissioner and Corporate
Appeal	Immediate Relief	Fully or Partially external funds	Immediate relief, reconstruction	DDMA / GSDMA

(iv) Disaster Insurance:

The Insurance Regulatory and Development Authority (IRDA), India has framed micro insurance regulations that allow distribution of micro insurance products in the state. The regulations cover insurance for personal accidents, health care for individual and family and assets like houses, livestock, tools and others. In states, various Ministries/ Department have their insurance schemes related to health, crops, livestock, and other which can be utilize in case of disaster. There is need to further promote more locally customized and farmer/trader friendly weather based crop/ agri-business insurance packages. Besides, insurance policies on behalf of likely in-risk population by municipal agencies, institutions/establishments or other premises can be thought of on lines of the Public Liability Insurance Act 1991 (i.e., for hazardous industries).

CHAPTER – 9



Maintenance of Plan:

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 lessons learnt thereof. This is a method of identifying the gaps and putting in place a system to fill the same. Regular updating of stakeholder details, contact numbers and resource inventory is another inherent and essential function of plan maintenance.

9.1 Authority for maintaining and reviewing the plan:

(According to ACT No. 31 of 2005 – The Disaster Management Act, 2003, Chapter IV, District Plan.) the District Plan.-

- (1) There shall be a plan for disaster management for every district of the State.
- (2) The District Plan shall be prepared by the District Authority, after consultation with the local authorities and having regard to the National Plan and the State Plan, to be approved by the State Authority.
- (4) The District Plan shall be reviewed and updated annually.
- (5) The copies of the District Plan referred to in sub-sections (2) and (4) shall be made available to the Departments of the Government in the district.
- (6) The District Authority shall send a copy of the District Plan to the State Authority which shall forward it to the State Government.
- (7) The District Authority shall, review from time to time, the implementation of the Plan and issue such instructions to different departments of the Government in the district as it may deem necessary for the implementation thereof.

The Plan should be maintained and reviewed regularly, based on inputs as under:

- (a) Drills and Rehearsals
- (b) Recommendations from all Depts. in their Annual DM Report
- (c) Lessons learnt from Disasters in other Districts, States and countries
- (d) Directions from GSDMA, Ministry of Home Affairs, NDMA, Government etc...

(i) Schedule for updation & revision of plan,

DDMC shall compile its learning and proposed new mechanisms for improvement in updation of plan for 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 will revise in the month of October-November every year.

(ii) Schedule for Mock Drills

The district police department, Home guards, Civil Defence personnel, Fire Service officials, SRTs, QRTs, DMCs and DMTs will undergo periodic mock drills for different disasters, coordinated by the District Collector at the district level and by the Relief Commissioner at the State level. It is mandatory to have mock-drills at least twice in a year for fire and earthquake.

CHAPTER – 10

GUIDANCE FOR MASS RESCUE OPERATIONS

Introduction

1 A mass rescue operation (MRO) is one that involves the need for immediate assistance to large numbers of persons in distress such that capabilities normally available to search and rescue(SAR) authorities are inadequate.

2 Fortunately, MROs are relatively rare compared to normal SAR operations, but major incidents leading to the need for MROs have not been infrequent on a world-wide basis, and can occur anywhere at any time. Since the nature of such operations may be poorly understood due to limited chances to gain experience with major incidents involving MROs, this Guidance begins with a general discussion of MROs and related matters.

3 Flooding, earthquakes, terrorism, casualties in the offshore oil industry, accidents involving releases of hazardous materials and major aircraft or ship incidents are examples which, because of their magnitude, may need to use the same resources as would be needed to carry out mass maritimeor aeronautical rescue operations.

4 The sequence of priority in major multi-mission incidents must be lifesaving first, generallyfollowed by environmental protection, and then protection of property.

5 Moral and legal obligations, as well as public and political expectations, drive the need to be prepared to carry out MROs safely and effectively should they become necessary. Since the need for MROs is relatively rare, it is difficult to gain practical experience to help deal with them. While the types of potential MRO scenarios, as well as the organizations, emergency response structures and circumstances vary from place to place, there are certain general principles, common actions and examples that can be followed based on lessons of history, which this Guidance is intended to convey.

MROs are relatively low-probability high-consequence events. Effective response to 6 such major incidents typically require immediate, well-planned and closely co-ordinated largescale actions and use of resources from multiple organizations. Intense and sustained high priority lifesaving efforts may need to be carried out at the same time and place as major efforts to save the environment and property. Huge amounts of selected information will need to be readily available at the right times and the right places not only to support the response efforts, but to meet the needs of the media, public and families of the persons in distress, which may number in the hundreds or thousands. Many means of communications will need to be available and interlinked amongst organizations at various levels to handle huge amounts of information reliably for the duration of the response. A surge in the numbers of competent staffing in all key organizations must be available immediately and be sustainable for up to weeks at a time. Equipment and logistics demands will jump to unprecedented levels. Successful MROs depend on the advance provision of flexible and all- level contingency plans. Intense integrated planning and operational efforts must also be carried out in real time throughout actual rescue efforts.

7

8 All who will be involved in the overall multi-agency, multi-jurisdiction, multi-mission and possibly international response to a major incidents will need clearly understand who is in charge, how to work with who is in charge, the respective roles of all involved, and how to interact with eachother. SAR authorities may be responsible for all, or part, of the MRO responsibilities of the major incident response, and will be able to co-ordinate their efforts seamlessly with other incident responders under overall direction of another authority within or outside their agency. The broader response environment may involve hazards mitigation, damage control and salvage operations, pollution control, complex traffic management, large-scale logistics efforts, medical and coroner functions, accident-incident investigation, intense public and political attention, etc. MRO plans needto be part of and compatible with overall response plans for major incidents. Plans must typically allow for command, control and communications structures that can accommodate simultaneous air, sea and land operations.

9 Potential disastrous consequences of poor preparations for MROs in terms of loss of life and other adverse results are enormous. Major incidents may involve hundreds or thousands of persons indistress in remote and hostile environments. A large passenger ship collision, a downed aircraft, or a terrorist incident could, for example, call for the immediate rescue of large numbers of passengers and crew in poor environmental conditions, with many of the survivors having little ability to helpthemselves, and the dire results of failure are evident.

10 Preparedness to mount an extraordinarily large and rapid response is critical to preventing large-scale loss of lives. Such preparedness often depends on strong and visionary leadership and unusual levels of co-operation to achieve. There will often be strong resistance to paying the inherently high price in terms of time, effort and funding that preparedness for major incidents entails, particularly as they are rare events. The required levels of cooperation, co-ordination, planning, resources and exercises, required for preparedness are challenging and do not happen without the requisite commitment of SAR authorities, regulatory authorities, transportation companies, sources of military and commercial assistance and others.

11 SAR authorities should co-ordinate MRO plans with companies that operate ships and aircraft designed to carry large numbers of persons. Such companies should share in preparations tominimize the chances that MROs will be needed, and to ensure success if they are.

12 MRO planning, preparations and exercises are essential since opportunities to handle actual incidents involving mass rescues are rare. Therefore the exercising of MRO plans is particularly important. Appendix 1 provides guidance on planning and conducting such exercises.

13 The provisions of this document are intended to provide general guidance to authorities and organizations responsible for ensuring that MROs, should they be necessary, are successful.

14 For a situation involving large numbers or persons in distress, on scene responsibilities for the safety of passengers and crew will be shared by the OSC and the aircraft pilot in command or ship master, with the pilot or master assuming as much of this responsibility as possible before orafter the aircraft or ship is abandoned.

15 Pilots and masters are responsible for maneuvering the aircraft or ship as feasible and appropriate. They also have overall responsibility for safety, medical care, communications, fire anddamage control, maintaining order and providing general direction.

16 Unless a ship appears to be in imminent danger of sinking, it is usually advisable for passengers and crew to remain on board as long as it is safe to do so.

17 In the case of a downed aircraft, whether passengers would be safer on board should be assessed for each situation. Usually they should promptly evacuate the aircraft at sea. On land this decision must account for the conditions of the aircraft and the environment, expected time to rescue or aircraft repair, and whether required passenger care can be best provided inside the aircraft.

18 The OSC will normally be designated by an SMC. An OSC may be able to handle certain communications on scene and with appropriate remote authorities to help free the pilot or master to retain the integrity of his or her craft. However, these persons are themselves in need of assistance, and anything the OSC can do to help them should be considered, bearing in mind that the OSC's main duty is co-ordinating SAR facilities and rescue efforts under the SMC's general direction.

19 It is important to minimize unnecessary communications with the master of a ship or pilot in command of an aircraft in distress, and this should be taken into account in advance planning. Exchanges of information during joint planning by use of SAR Plans of Cooperation (see MSC/Circ.1000 or its superseding circulars) and other means will reduce the need to ask the pilot or master for this information one or more times during a crisis. Persons or organizations thatwant this information should be directed to a source ashore or on the ground that is prepared to handle what could be many requests.

20 High priority should be given to tracking and accounting for all persons on board and all lifeboats and rafts, and efforts to keep them together will help in this regard. Availability of accurate manifests and accounting is critical. The need to relocate survival craft and check for persons in themcan waste valuable resources. One option is to sink survival craft once the persons in them have been rescued; however, the potential that other survivors may find and need the craft should be considered.

21 Navy ships are often better equipped than commercial vessels for retrieving people who haveabandoned a ship or aircraft, and use of any such ships should be considered.

22 Helicopter capabilities should be employed if available, especially for retrieval of weak or immobile survivors. Lifeboat crews should be trained in helicopter hoist operations. Lowering a rescue person from the helicopter to assist survivors may be viable.

23 Ship companies should be encouraged to equip large passenger ships and possibly other types of vessels with helicopter landing areas, clearly marked hoist-winch areas, and onboard helicoptersto facilitate more direct transfers of numerous persons.

24 If a ship with a large freeboard cannot safely retrieve survivors from the water or survival craft, it may be possible to first retrieve them onto small vessels, and then transfer them to progressively larger ones.

25 Depending on the circumstances, it may be safer to tow survival craft to shore without removing the occupants at sea. Lifeboats could be designed to support passengers for longer

periods of time, and to be able to reach shore on their own from longer distances offshore.

26 To the extent practicable, MROs should be co-ordinated by an SMC in an RCC. However, depending on the magnitude, nature and complexity of a mass rescue incident, the rescue efforts maybe better co-ordinated by an appropriate operations centre higher within the SAR agency or a government. Considerations in this decision might include, among others:

- extensive rescue support by organizations other than those commonly used for SAR;
- need for heavy international diplomatic support; and
- serious problems in addition to potential loss of lives, such as environmental threats, terrorist actions, or national security issues.
- 27 The following factors should be considered in MRO planning:
 - use the Incident Command System (ICS) or other effective means of handling multi-agency, multi-jurisdiction, multi-mission scenarios;
 - identify situations within the SRR that could potentially lead to the need for MROs, including scenarios that might involve cascading casualties or outages;
 - mobilisation and co-ordination of necessary SAR facilities, including those not normally available for SAR services;
 - ability to activate plans immediately;
 - call up procedures for needed personnel;
 - need for supplemental communications capabilities, possibly including the need for interpreters;
 - dispatching of liaison officers;
 - activation of additional staff to augment, replace or sustain needed staffing levels;
 - recovery and transport of large numbers of survivors (and bodies, if necessary), accounting for survivors potentially having injuries and lack of training, age limitation, hypothermia, etc.;
 - a means of reliably accounting for everyone involved, including responders, survivors, crew, etc.;

- care, assistance and further transfer of survivors once delivered to a place of safety, and further transfer of bodies beyond their initial delivery point;
- activation of plans for notifying, managing and assisting the media and families inlarge numbers;
- control of access to the RCC and other sensitive facilities and locations;
- RCC backup and relocation plans, as appropriate; and
- ready availability to all potential users of plans, checklists and flowcharts.

At some point the ability of an RCC to continue to effectively co-ordinate the MRO and stillhandle its other SAR responsibilities might be overwhelmed, and another RCC or a higher authoritymay need to assume responsibility for the MRO.

29 With these possibilities in mind, MRO plans may provide for various degrees of response, along with criteria for determining which amount of response will be implemented. For example, aslocal SAR resources are exhausted, or from the outset, SAR resources may need to be obtained from distant national or international sources.

30 Experiences in responding to major incidents have resulted in other practical advice such asthe following:

- plan and exercise how any agency receiving notification of an actual or potential mass rescue event can immediately alert and conference call other authorities that will potentially be involved, brief them, and enable immediate actions to be taken by all concerned (this will require identification of contacts in each agency that can be contacted on a 24-hour basis, and that have authority to immediately initiate actions and commit resources);
- co-ordinate all rescue operations effectively from the very beginning;
- begin quickly with a high level of effort stand down as appropriate rather than begintoo late with too little effort;
- use more capable resources like cruise ships for taking large numbers of survivors onboard;
- ensure that MRO emergency plans address communications interoperability or inter-linking;
- retrieve and protect debris as evidence for follow on investigation;
- put security plans in place to limit access to the RCC;

- arrange in advance to involve the Red Cross, chaplains, critical incident stress experts and other such support for human needs;
- identify senior agency spokespersons to protect the time of workers directly involved in the response and designated a senior official to provide information to families;
- clearly identify the point at which the SAR response (lifesaving) has ended, and thefocus shifts to investigation and recovery;
- be prepared to use an ICS when appropriate;
- ensure that air traffic and air space can be and is controlled on scene;
- the SMC can often benefit from assigning additional liaison personnel on scene;
- anticipate development and needs and act early;
- ensure that the scopes of SAR plans and other emergency or disaster response plans are co-ordinated to reduce gaps, overlaps and confusion about who is in charge andwhat procedures will be followed at various times and places;
- control access to the scene, including access by the media;
- work out in advance how private resources can be appropriately used to supplementother SAR resources;
- ensure that SAR plans provide for logistics support for large numbers of rescuers and survivors, including pre-arranged accommodations, if possible, and availability of food, medical care and transportation;
- consider requesting assistance from airlines and shipping companies other than theone whose aircraft or ship is involved in the incident, and know the types of assistance that such organizations might provide;
- bar coded bracelets can be an effective means of identifying children before, duringand after the emergency;
- attempt to reduce the burden on a pilot or master and crews;
- if safe and appropriate to do so, place a marine casualty officer on board to assist themaster and SAR personnel;
- share capabilities, expertise and assets among government and industry to take maximum advantage of the strengths of each.

Communications

1

1

Communication plans must provide for a heavy volume of communication use, as a major incident will normally involve many responding organizations that need to communicate effectively with each other from the beginning. As necessary, advance arrangements should be made to link means of interagency communications that are not inherently interoperable. Interagency communications must be based on terminology that all involved understand.

Major incident co-ordination

Regardless of the magnitude and priority of the lifesaving efforts involved in responding to a major incident, if any other functions are being carried out concurrently on scene by other than SAR personnel, the overall response involving SAR and the other functions, e.g., firefighting, should be ell co-ordinated.

2 If certain basic concepts and terms are recognized and understood by all emergency responders, they will be much better prepared to co-ordinate joint efforts.

3 Standard SAR procedures should typically be followed for the SAR part of the response, but these procedures will be largely independent of other efforts. Companies or authorities handling other aspects of the response will follow command, control and communication procedures developed for their respective organizations and duties.

4 The SAR system can function in its normal manner or use modified SAR procedures established to account for special demands of mass rescues, but it should be appropriately linked and subjected to a scheme for management of the overall incident response.

31 For major incidents, crisis management for the overall response may also be needed. The **Incident Command System (ICS)** is one simple and effective means of meeting this need. The ICS works best with some advance familiarization and exercising. Since SAR and transportation authorities are likely to encounter use of the ICS within emergency response communities, Appendix 3 provides general information for familiarization with the ICS. The ICS is an example of an effective system used for emergency management, and is a tool that can be used where no equivalent means of overall incident management is in place.

Industry planning and response

32 SAR authorities should co-ordinate MRO plans with companies that operate aircraft and ships designed to carry large numbers of persons. Such companies should share in preparations tominimize the chances that MROs will be needed and to ensure success if they are. Appendix 2 provides guidance on industry roles and discusses how companies could arrange for use of company field teams and emergency response centres as possible means of carrying out their MRO responsibilities. For passenger ships, SAR Plans of Co-operation are part of MRO plans.

Public and media relations

33 What the media reports may matter more than what SAR services do for shaping of public opinion about MROs. Importantly, the role of the media may be critical in shaping the actions of thepublic and those directly involved in the distress situation in a way that contributes to safety, success and panic control. There should be no unwarranted delays in providing information to the media. Information should be readily available, clear, accurate, consistent and freely exchanged among emergency responders and others concerned, such as the public and families of persons on board.

34 Identify spokespersons and outline what they will say, staying factual. If SAR services do notprovide a public spokesperson for a major incident, the media will. Spokespersons should be cautious about speculating on causes of accidents and should inform the media that current operations are focused on saving lives.

35 Ensure that the media knows who is in charge of co-ordinating rescue operations.

36 A single spokesperson not directly involved in the incident can be valuable in relieving the ICand SMC of this duty.

37 Many entities are involved in a major incident, including ships, aircraft, companies and SAR services. Co-ordination is required to ensure that there is one message with many messengers. Interviews should be live if possible.

38 Prompt establishment of a joint information centre away from the SMC will help to achievethis goal. The centre can establish proper procedures for establishing what messages will be released to the public and how those messages will be released. Since the messages may be sensitive, it is critical that everyone communicates the same information. The centre can be responsible for co-ordinating information made available via the internet and perhaps establishing and maintaining apublic web site.

39 The media is a 24-hour global market, with news broadcast worldwide around the clock. The media will find a way to get to the scene for first hand information, pictures and video. By providing transportation to the scene and controlling media access, safety and what is reported can be improved and better controlled.

40 Media outlets may have more resources to mobilize on scene than do SAR authorities, and RCC operating plans should account for how to deal with such situations.

41 Information should be provided to the public on what SAR facilities are being used and, if possible, a web address or list of contact phone numbers should be provided for families, media and others to contact for more information.

42 Preparations should be made so that large numbers of callers can be accommodated withoutsaturating the phone system or crashing the computer server.

43 Advance preparation of standby web pages by transportation companies and SAR authorities can help in responding to floods of requests for information. These pages can be

quickly posted to provide general information the media can use. Web information should be timely and accurate. Once posted, these pages can be easily updated with the status of the incident and could also include:

- contact information;
- basic government or industry facts;
- industry and SAR definitions;
- photographs and statistics of aircraft, ships and SAR facilities;
- answers to frequently asked questions;
- links to other key sites;
- information on passenger capacity, crew size, vessel plans and firefighting capabilities; and
- library footage of a vessel inspection or of the crew performing lifesaving drills.

Follow up actions

1

It is very important to develop and share lessons learned from actual MRO operations and exercises. However, concerns (often excessive) about legal liability may discourage highlighting matters that could have been done better.

2 Since lessons learned can help prevent recurring serious mistakes, agreement should be reached among principal participants on how lessons learned can be depersonalized and made widely available. Lessons learned from MROs should be shared not just locally, but internationally.

3 Careful accounting for survivors after they have been delivered to a place of safety remainsimportant. They need to be kept informed about plans for them and about the ongoing response operations. With large numbers of persons often staying in different places, keeping track of and working with them can be difficult.

4 Transportation companies are often best suited to handle and assist survivors during this time. Crewmembers may be placed at various locations to record passenger names and locations. Another possibility is for airlines or passenger ships to attach plastic cards to life vests to give passengers phone numbers for contacting the company. Some companies use bar coded bracelets to track children who are passengers.

5 Communicating with passengers is more difficult in remote areas, where phone service maybe inadequate or lacking. If phones do exist, calling the airline or shipping company may be the bestway to check in and find out information. In more populated areas, local agencies may

have an emergency evacuation or other useful plan that can be implemented.

6 To protect passengers from harassment by interviewers and cameras, survivors might be placed in hotels or other places of refuge. However, triage and landing locations must be established and publicized to all rescue personnel and good Samaritans.

APPENDIX 1

EXERCISES FOR MASS RESCUE OPERATIONS

Since opportunities to handle actual incidents involving mass rescues are rare and challenging, exercising MRO plans are particularly important. Mass evacuation and rescue operations are difficultand costly, leading to a tendency to use simulation excessively during exercises rather than physically exercising on scene efforts.

MRO exercise objectives need not be addressed in a single large exercise, but may be satisfied in part by routine incorporation into multiple drills, some intended mainly to test other systems. However, realistic drills are necessary and costly, and over 1,000 volunteer ship passengers or hundreds of volunteer aircraft passengers will likely be needed to conduct a realistic exercise.

Separate rooms can be used to simulate command posts that would normally be in separate

locations.MRO exercises should ideally achieve the following objectives:

- Account for:
 - Crew and passenger lists
 - Rescued passengers and crew until they can return to their homes
 - All persons associated with the rescue and aftermath operations
 - Lifeboats, including empty boats or rafts
 - High freeboard issues for likely rescue facilities
- Identify and task available resources:
 - Use of Amver
 - Potential resources ashore and afloat
 - Resources from local agencies (medical personnel, hospital facilities, firedepartment, general community, transportation resources)
 - National and regional military and other resources
- Evaluate notification processes, resource availability, timeliness of initial response, real-time elements, conference capabilities and overall co-ordination
- Ensure all agency roles are sorted out, understood and properly followed

- Test capabilities of potential OSCs and ability to transfer OSC duties
- Evaluate span of control
- Evacuate a ship or aircraft
- Co-ordinate activities and achieve information exchanges
 - Communications (RCC-RCC, government-industry, RCC-OSC, on scene,shore-ship, ground-air, ship-air, SAR facility-survival craft, etc.)
 - Information for all concerned (identify, merge, purge, retrieve and transfer tothe right place in the right form at the right time)
 - New communication and information management technologies
 - Media and next-of-kin
- Safely transfer and care for passengers (evacuation, in survival craft, rescue, medical, protection from environment, post-rescue transfers, etc.)
- Test all communication links that may be needed for notification, co-ordination and support
- Conduct medical triage and provide first aid
- Assess ship's safety management system effectiveness
- Exercise co-ordination with local response agencies
- Provide food, water, lifejackets and other protective clothing to survivors
- Test mass rescue plans:
 - SAR services
 - Company (including aircraft and ship plans)
 - Any relevant emergency response organizations, e.g., disaster response, military, firefighting and medical
 - Transportation and accommodations
- Assess how effectively earlier lessons learned have been accounted for in updated plans and how well these lessons were disseminated
- Exercise salvage and pollution abatement capabilities
- Carry out emergency relocation of the disabled craft
- Exercise external affairs, such as international and public relations:
 - Necessary participants involved
 - Joint information **centres** established quickly and properly staffed
 - Press briefings handled effectively, e.g., consistent information from differentsources
 - Notification of the next of kin and family briefings
 - Staff and equipment capacity to handle incoming requests for information
 - Rescued persons tracked, kept informed and needs monitored, and reunited with belongings

The following steps are normally carried out during exercise planning:

- Agree on the exercise scenario, goals and extent
- Assembly a multi-disciplinary planning team and agree on objectives for each aspectof the exercise
- Develop the main events and associated timetables
- Confirm availability of agencies to be involved, including any media representativesor volunteers
- Confirm availability of transportation, buildings, equipment, aircraft, ships or otherneeded resources
- Test all communications that will be used, including tests of radio and mobile phonesat or near the locations where they will be used
- Identify and brief all participants and people who will facilitate the exercise, and ensure that facilitators have good independent communications with person who willbe controlling the exercise
- Ensure that everyone involved knows what to do if an actual emergency should ariseduring the exercise
- If observers are invited, arrange for their safety, and to keep them informed about theexercise progress
- For longer exercises, arrange for food and toilet facilities
- Use "exercise in progress" signs, advance notifications and other means to help ensure that person not involved in the exercise do not become alarmed
- Schedule times and places for debriefs

- Agree and prepare conclusions and recommendations with the entity responsible forhandling each recommendation along with the due date for any actions
- Prepare a clear and concise report and distribute it as appropriate to the participatingorganizations
- Consider the outcome of this exercise in planning future exercises

APPENDIX 2

INDUSTRY PLANNING AND RESPONSE FOR MASS RESCUE OPERATIONS

- •
- SAR authorities should co-ordinate MRO plans with companies that operate aircraft and ships designed to carry large numbers of persons. Such companies should share in preparations to minimize the chances that MROs will be needed, and to ensure success if they are. This Appendix provides guidance on industry roles, and discusses how companies could arrange for use of company field teams and emergency response centres as possible means of carrying out their MRO responsibilities.
- •
- Early notification of potential or developing MROs is critical, due to the level of effort required tomount a very large-scale response. It is much better to begin the response process and abort it should become unnecessary, than to begin it later than necessary should the actual need exist. Pilots and masters should be advised and trained to notify SAR services at the earliest indication of a potential distress situation.
- •
- Company response organizations should be able to help SAR services by organizing support, equipment, advice and liaison any of their ships or aircraft.
- •
- Companies should be prepared to provide information to preclude the need for multiple sources attempting communications with the aircraft pilot in command or ship captain for information that is unavailable or available from another source. Receiving and handling requests for information aboard the distressed craft can interfere with the pilot's or master's ability to handle the emergency and handle critical on scene leadership needs.
- - Companies operating large aircraft or ships should be advised to be able to field a co-ordinated team that can handle emergency response functions around the clock should the need arise. Such a teammight include staff as indicated in the following Table.

Typical company field team

Team Leader	Maintains overview, directs operations and keeps management informed
Communicator	Maintains open (and possibly sole) line of communications to craft in distress
Co-ordinating Representative	Usually a pilot or master mariner, who co-ordinates with SAR and other emergency response authorities, organizes tugs, looks at itineraries, arranges to position ships or ground facilities that may be able to assist and organizessecurity and suitable delivery points for passengers crew when they are delivered to safety
Technical Representative	Maintains contact with regulatory authorities, classification societies, insurers and investigators and provides liaison and advice for firefighting,damage control, repairs and other specialized or technical matters
Environmental Representative	Involved with environmental impact and spill response

Medical Representative	Gives medical advice, tracks casualties and arranges medical and identification services for survivors
Passenger and Crew Representatives	Provides information and support to whoever is designated to care for nextof kin and keep them informed, identifies transportation needs, and may need to deal with various countries, languages and cultures
Media Representative	Gathers information, co-ordinates public affairs matters with counterparts in other organizations, prepares press releases, briefs spokespersons and arranges availability of information by phone and web sites
Specialists	From within or outside the company who may facilitate some specialaspect of the response or follow up

The company may operate an **Emergency Response Centre** (ERC) to maintain communications with the craft in distress, remotely monitor onboard sensors if feasible, and keep emergency information readily available. Such information might include passenger and crew data, aircraft or ship details, incident details, number of survival craft and status of the current situation.

Transportation companies should have readily available contacts with tour companies, shore excursion companies, airlines and cruise lines, hotels, etc., since such resources can be used to address many problems experienced with landing large numbers of survivors into a community.

Contingency plans for co-operation should be developed between SAR authorities and transportation companies, and these plans should be sufficiently exercised to ensure they would be effective should an actual mass rescue situation arise. Such plans should identify contacts, co-ordination procedures, responsibilities, and information sources that will be applicable for MROs. These plans should bekept up to date and readily available to all concerned.

Respective functions of the ERC and RCC should be covered in co-ordinated pre-established plans, and refined as appropriate for an actual incident. These centres must maintain close contact throughout the SAR event, co-ordinating and keeping each other appraised of significant plans and developments.

There are other steps the transportation industry could be urged to undertake to improve preparedness for MROs. The following are some examples:

- Carry SAR plans on board aircraft or ships
- Provide water and thermal protection for evacuees appropriate for the operating area
- Provide a means of rescue to bring people from the water to the deck of ships
- Use preparation checklists provided by SAR authorities
- Conduct an actual physical exercise in addition to simulations
- Provide the capability to retrieve fully loaded lifeboats and rafts
- Enhance lifeboat lifesaving capabilities
- Provide ways to assist persons in lifeboats who are seasick, injured or weak
- Provide on-board helicopter landing areas and helicopters
- Prepare to assist survivors once they have been delivered to a place of safety
- Have aircraft or ship status and specifications readily available, such as inspection records, design plans, communication capabilities, stability calculations, lifesavingappliances, classification society contacts, passenger and cargo manifests, etc., so that such information will not need to be obtained directly from a pilot or master
- Work with SAR authorities to develop and be able to rapidly deploy air droppable equipment or supplies for survivors, maintain strategically located caches for this purpose

Acceptance of certain responsibilities by industry demonstrates commitment to passenger safety and can free SAR services to handle critical arrangements relating to SAR resources, co-ordination and communications.

APPENDIX 3

INCIDENT COMMAND SYSTEM OVERVIEW

For major incidents, crisis management for the overall response may also be needed. The **Incident Command System (ICS)**, one widely used means of meeting this need, but works best with some advance familiarization and exercising within and among the transportation and emergency response communities. Since SAR and transportation authorities are likely to encounter use of the ICS within emergency response communities, this Appendix provides general information for familiarizationwith ICS. The following terms are relevant to the ICS:

- **Incident Commander (IC)**: the primary person functioning as a part of the incident command system, usually at or near the scene, responsible for decisions, objectives, strategies and priorities relating to emergency response
- **Incident Command Post (ICP)**: location at which primary functions are carried outfor the Incident Command System
- **Incident Command System (ICS)**: on scene emergency management concept that provides an integrated organizational structure adaptable to the complexity and demands of an major incident involving multiple missions, response organizations orjurisdictions
- Unified Command (UC): the incident commander role of the incident command system expanded to include a team of representatives that manages a major incident by establishing common objectives and strategies and directing their implementation

The ICS is designed for use when multiple organizations and jurisdictions need to be jointly involved in an emergency response activity and co-ordinate their efforts.

While organizations have their respective systems of command and control or co-ordination, these should be compatible with systems others use so organizations can function well jointly when necessary. Commonality and similarities among crisis management systems locally, regionally and internationally foster effective joint efforts.

The ICS does not take control, responsibility or authority away from SAR services; SAR servicesremain focused on lifesaving, while the ICS focuses on promoting an effective overall incident response.

The ICS training, advance co-ordination and liaison will be rewarded by better performance and success when a crisis situation arises. As a tool for managing major incidents, the ICS:

- Accommodates all risks and hazards
- Is simple, powerful and flexible
- Can easily expand or contract as the incident warrants
- Relieves the SAR system of co-ordinating non-SAR missions
- Enables SMC to use the ICS contacts to draw on additional resources
- Ensure better communication and co-operation between agencies
- The ICS organization can grow or shrink as the situation dictates, and provides a logical process and progression to achieve results. Its organization should be allowed to grow with increased demand and shrink when operations decline, both of which require anticipation.
- •
- Advantages of the ICS can be lost when organizations develop their own unique and relatively complex versions of the ICS; it works best when it remains simple, flexible and standardized so everyone on scene from all organizations understands it.
- •
- In its basic form a person is designated as the IC to handle overall co-ordination, including settingobjectives and priorities.
- - Support functions (sections supported by one or more persons) can be established *as needed* and on the scale needed to keep the IC informed and assist in certain areas. The four support sections in theICS organization are as follows:
- **Operations Section -** helps manage resources to carry out the operations
- **Planning Section** helps develop action plans, collect and evaluate information, maintain resource status and arrange to scale up or scale down activities
- **Logistics Section** helps provide resources and services needed to support the incident response, including personnel, transportation, supplies, facilities and equipment
- **Finance-Administration Section** assists with monitoring costs, providing accounting and procurements, keeping time records, doing cost analysis and other administrative matters

Other additions to directly assist the IC might include:

• An **Information Officer** - assists the media and others seeking incident information, ensures the IC has appropriate information available, and helps to provide information to the public and families of persons in distress

- A **Safety Officer** monitors safety conditions and develops measures to ensure safety and reduce risks
- Liaison Officers serve as primary contacts for on scene representatives of their respective organizations
- The following Figure illustrates the basic ICS organization.
- Safety InformationLiaison Incident • Commander Operations Planning Logistics Finance

• Incident Command System Organization

- The IC usually establishes an **Incident Command Post (ICP)** as a base for ICS activities.
- •
- For particularly demanding incidents, the ICS organization can be expanded. For example, for operations that are particularly large-scale, sustained or complex, the IC can be augmented by establishment of an actual or virtual (without everyone co-located) **Unified Command (UC)** populated by operational managers representing the primary response organizations involved. If the UC is made up of linked independent command posts, a government post and an industry post for example, ideally there should still be a person from each command post assigned to work at the otherpost(s) involved.
- For a situation like a major passenger aircraft or ship disaster, a **Joint Information Centre (JIC)**should be established, perhaps in association with the Information Officer position, to facilitate and co-ordinate the vast information that will need to be managed internally and shared with the public.
- •
- Whether the ICS should be used depends on the duration and complexity of the incident. If it is used, co-ordination of SAR functions with other functions is usually achieved by assigning a representative of the SAR agency or of the SMC to the Operations Section of the ICS organization. This allows SAR services to be plugged into the ICS and overall operations while still being able tofunction with relative independence in accordance with normal SAR procedures. The ICS has an overall incident focus, while SAR services must remain focused on lifesaving.

A determination should be made as early as possible on who will be responsible for overall co-ordination, and how the overall response will be organized and managed. Procedures that all involved understand and support should be applied to managing the overall response for mutual support, effort prioritization, and optimal use of available resources, and to enhance on scene safetyand effectiveness.

- •
- Inter-agency contingency planning should identify who the IC should be for various scenarios. Typically, the IC will be assigned from the government organization with primary responsibility for the type of function most prominent for the particular incident. However, with appropriate access to experts and information from all agencies concerned, a key consideration in selecting the IC should be familiarity and experience with the IC function, i.e., the IC should be a person who can best handle the responsibility.
- The IC should be someone good at managing on scene operations, and will usually be located at or near the scene. Everyone involved, regardless of rank or status, will normally be in a support role for the IC, similar to the way the SMC function is carried out.
- •
- The IC function can be transferred as the situation warrants, although such transfers should be minimized as is the case for transfers of SMC functions during a mission. It is important to designate an IC early, in contingency plans if possible, and make a transfer later as appropriate, as delay in designating an IC can be quite detrimental.
- •
- Except when functions other than SAR are relatively insignificant to the incident response, the IC should normally be someone other than the SMC. The priority mission will always be lifesaving, and the SMC should normally remain unencumbered by additional non-SAR duties.
- •
- Similarly, the IC's command post should normally be at a location other than in the RCC, because the RCC needs to remain focused on, and be vigilant and responsive to, its normal SAR responsibilities in addition to handling SAR aspects of the major incident.





• History of Junagadh

Junagadh is at south-western of Gujarat state & west-central of India. It lies near the Girnar Hills of the Kathiawar Peninsula. The many temples and mosques in the vicinity reveal the city's long and complex history. To the east are the Uparkot, an old Hindu citadel; Buddhist caves dating from the 3rd century bce; and the edicts (carved on stone) of the Mauryan emperor Ashoka. The peaks of the Girnar Hills are dotted with Jaina temples. A Rajput stronghold until the 15th century, Junagadh was captured in 1472 by Maḥmūd Begarā of Gujarat, who named it Mustafabad and built a mosque.

An impressive fort, Uperkot, located on a plateau in the middle of town, was originally built during the Mauryan dynasty by Chandragupta in 319 BCE The fort remained in use until the 6th century, when it was covered over for 300 years, then rediscovered in 976 CE The fort was besieged 16 times over an 800-year period. One unsuccessful siege lasted twelve years.

Accession of Junagadh to India

During the period spanning the independence and partition of India and Pakistan in 1947, the 562 princely states that had existed outside British India under British suzerainty were given a choice of acceding to either India or Pakistan or remaining outside them. Although the states were theoretically free to choose, Earl Mountbatten stated that "geographic compulsions" meant that most of them would choose India. Mountbatten took the position that only states that shared a common border with Pakistan should choose to accede to it, but he had no power to impose this point of view on the states.

On September 15, 1947, Nawab Mohammad Mahabat Khanji-III of Junagadh, a princely state located on the south-western end of Gujarat and having no common border with Pakistan, chose to accede to Pakistan ignoring Mountbatten's views, arguing that Junagadh adjoined Pakistan by sea. The rulers of two states that were subject to the suzerainty of Junagadh — Mangrol and Babariawad — reacted by declaring their independence from Junagadh and acceding to India. In response, the nawab of Junagadh militarily occupied the two states. Rulers of the other neighbouring states reacted angrily, sending troops to the Junagadh frontier, and appealed to the Government of India for assistance. A group of Junagadhi people, led by Samaldas Gandhi, formed a government-in-exile, the "Aarzi Hukumat" ("temporary government").

India believed that if Junagadh was permitted to accede to Pakistan, communal tension already simmering in Gujarat would worsen, and refused to accept the Nawab's choice of accession. The government pointed out that the state was 80% Hindu, and called for a plebiscite to decide the question of accession. India cut off supplies of fuel and coal to Junagadh, severed air and postal links, sent troops to the frontier, and occupied the principalities of Mangrol and Babariawad that had acceded to India.

On 7th November, Junagadh's court, facing collapse, invited the Government of India to take over the State's administration. The Dewan of Junagadh, Sir Shah Nawaz Bhutto, the father of the more famous Zulfiqar Ali Bhutto, decided to invite the Government of India to intervene.

The Government of Pakistan protested, saying that since the Nawab had chosen to accede to Pakistan, the Dewan had no authority to negotiate a settlement with India. Also, if India could acquire Kashmir (with an overwhelming Muslim majority) because its ruler had decided to accede to India, then Pakistan could claim Junagadh.

The government of India rejected the protests of Pakistan and accepted the invitation of the Dewan to intervene. A plebiscite was conducted in February 1948, which went almost unanimously in favour of accession to India. Junagadh became a part of the Indian state of Saurashtra until 1 November 1956, when Saurashtra was part of Bombay state. In 1960, Bombay state was split into the linguistic states of Maharashtra and Gujarat, in which Junagadh was located.

Junagadh District is located on 20.05° to 21.91° North latitude and 69.97° to 70.92° east longitude. Districts come into existence form date 19/4/1949 by merger of Junagadh and surrounding Deshi Rajwadas. In these Rajwadas Junagadh, Manavadar, Mangrol, Bantwa and Sardargadh were prominent.

• Introduction of Junagadh

The District came in to existence in 1949 with the amalgamation of Junagadh with adjoining princely States, namely Manavadar, Mangrol, Bantwa and Sardargadh. After substraction of Porbandar district from dated 02-10-97, the area of Junagadh was remain 8881.8 sq.k.m. Again after reorganisation of disctrict from 15th August, 2013 by spliting of Gir-Somnath District the area of remaining Junagadh District is now remains 5027.60 sq.km.

Geographilcal situation of district has, Amreli district in the East, Rajkot in the North, Porbandar district in the West and Gir-Somnath district and Arabian Sea in the South are adjoined with the border of Junagadh. District has its own natural wealth. This District is endowed by natural wealth like Gir forests, Mountainous region and through it following rivers beautified by waterfalls. The district is also famous for Asiatic Lion and lucrative attraction for foreign tourists.

As per administrative view, this district is distributed in Junagadh, Keshod, Mendarada, Visavadar and Vanthali Subdivisions. Among these 5 sub-divisions there are 10 taluka. District is at top in natural beauty with Gir's jungles (forests), mountains region and wide groups of rivers flowing through them. District is world famous for its Asiatic lions-vanraaj (king of jungle). Junagadh city and Girnar Mountain has historical as well as religious importance. Sovereign king Ashok (250 BC) during his time in that language (Which was spoken at that time) inscribed stone is seen on the way down from prom girnar. This place is known as "Ashok Shilalekh". As per Archaeological department, upperkot area is extremely ancient in Junagadh. The Monuments Adichadi step well, Navaghan wells and Baudh caves are too important and ancient tourist places. After getting freedom against the British rule, Junagadh became free from its last Nawab later on. Before going to Pakistan, Nawab left some ancient articles, ornaments and furnitures, which are preserved in Darbar Hall. These items have historical as well as tourism importance.

Some other popular places like, Narsinh Mehtas Varandah (Otlo-Choro) Bhavnath Mahadev's temple, Murgikund, Damodar Kund, Girnar Mountain, Jain Derasar, Ambaji Mataji's mandir, Gorakhnath tunk are present in Junagadh. Besides this, Sant Devidaas's immortal place Parab Dham at Parab Vavdi in Bhesan Taluka along with Satadhar and Kankaai Mataji's Temple are in Visavadar Taluka holds great religious importance.



• Administrative Set up:

Junagadh District Sub Division Wise Setup												
Junagadh Visavadar Keshod Mendarada Vanthli												
Taluka	Vi.	Taluka	Vi.	Taluka	Vi.	Taluka	Vi.	Taluka	Vi.			
Junagadh	58	Visavadar	74	Keshod	53	Mendarada	42	Vanthali	46			
Junagadh City	1	Bhesan	37	Mangrol	59	Maliya	68	Manavadar	56			
Total Villages 59 111 112 110 10									102			

Vi. = No. of Villages

From the date 2/10/97 as per decision taken by Gujarat Government, Junagadh district was split into 2 districts i.e. Junagadh and Porbandar. At that time Junagadh district had14 Talukas. Again from 15th, August 2013 the district divided into 2 district and a new district "Gir-Somnath" come into existance by Rules and Orders made by the Government of Gujarat under the Gujarat Acts of Revenue Department Notification publish in The Gujarat Government Gazette dated 13th August, 2013 with No. GHM/2013/70/M/PFR/102013/139/L.1:- In exercise of the powers conferred by section 7 of the Gujarat Land Revenue Code, 1879 (Bom. V of 1879) and in supersession of all the previous notification so far as they relate to the constitution of Junagadh district, the Government of Gujarat, with effect from the 15th August, 2013 (hereinafter referred to as "the said date:) hereby-

- a. divided the area comprised immediately before the said date in Junagadh district, and constitutes the following two districts, namely:-
 - 1. Junagadh district with headquarter at Junagadh;
 - 2. Gir Somnath district with headquarter at Veraval; and
- b. directs that:
 - (i) Junagadh district shall consist of the following talukas as constituted immediately before the said date namely:-

(1) Junagadh, (2) Bhesan, (3) Keshod, (4) Maliya-Hatina, (5) Manavadar, (6) Mangrol, (7) Mendarada, (8) Vanthali, (9) Visavadar and (10) Junagadh City.

There are 10 talukas having 520 villages situated in Junagadh district. Out of them there are 530 inhabited and 23 are uninhabited villages. As per political formation, Junagadh district have 1 Municipal Corporation, 7 Municipalities and 493 Village Panchayats, out of them 10 Village Panchayats are group village panchayats.

Land formation

This district is situated in the periphery of Girnar Mountain and Gir's famous forest. In the North West of Junagadh, there are low-lying Ghed area's exception levelled and fruitful land. Similarly many areas are of low lying, which are known as Ghed area. Ghed's area is known as Sorathi and Barda Ghed. During monsoon the water of rivers remains filled this area for long time due to parallel levelled land. As per Annexure-11, there are 13 Villages in Mangrol taluka, 11 Villages in Kashod Taluka and 4 Villages in Manavadar Taluka are known as Ghed Villages. Total 28 villages of these 3 Taluka are known as Ghed area Villages in Junagadh District.

This district is being agriculturally oriented. District's large portion of population is engaged in agriculture and animal rearing. In this district, Buffaloes are reared in gir forest. The Land of Junagadh is fertile and proportion of production of grains is much more, but the people have no proper planning to get higher productivity of grains.

Thus, the percentage of farmers who depend on agriculture is very less who can be considered as self reliant. The Land of District is mainly made of muddy rocks. Mainly This land can be classified in 5 types; 1. Black Soil proper for Cotton, 2. Medium Black Soil, 3. Low-lying Region Fertile Soil, 4. Chunna Patthar wali Jamin (Lime Stone Soil) and 5. Kharashwali Jamin (Salinity Soil).

The belt of land from Chorwad to Mangrol is extremely fertile, which is known as "Lily Nagher". In this District, Land utilised for farming of peanut, cotton, sugarcane, wheat, millet, etc. While Ghed's low-lying area is considered proper for Cotton, Gram & Juwar.

Rainfall

During the Monsoon season rain is brought by seasonal winds. Rain lashes it in June's last week till September's last week. Normally, on an average there is 813 to 1495 mm of rain fall reported in District. The average proportion of rain is higher in gir forest. The average consideration of rainy days is normally between 50-83 days for rains. Moreover rain also comes irregularly. In the year 2013 to 2023, Junagadh District's average Rain Fall.

Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Avg. Rain	1349	1105	690	959	836	842	1380	1650	1211	1168	1690

* Taluka Wise Rain Fall Details available at Annexure-6

Average Rain Fall for Last 10 Years - Junagadh District.

• Rivers and Dams:

The Most Popular Rivers of Junagadh District are (1) Uben (2) Ozhat (3) Madhuvanti (4) Vrujmi (5) Meghal and (6) Sonarakh. Besides those, some small rivers like Sabari, Sabali, Kalwo, AmbaaJal, Zhazheri, Dhrafad, Sankaroli, Netravati and Noli rivers are also flowing through district.

There are total 27 Small and Medium size Dams available under observation of Irrigation Branches. Detail of all Dams is mentioned in Annexure-12.

• Weather and Temperature



There is a much variety of weather shown in district. On one side there is humid weather because of river banks and on the other side there is warm and dry weather because of levelled grounds. In year 2022, the maximum temperature was recorded as 43.3 c° while the minimum temperature was recorded as 6.4 c° . The temperature difference depends upon the geographical circumferences. Generally the dry wind blows over Malia, Keshod, Bhesan and Manavadar.

• Fishing & Port:

Junagadh District has total 38 km. long costal belt. It starts on ending boundary of Veraval Taluka of Gir Somnath District, crosses through Chorwad of Maliya Taluka and is up to Antroli village of Mangrol Taluka ending at the boundary of porbandar district. Some good quality fishes are caught from ocean like, pamphlet Chhapari, Paplet, Palvo, Charaki, Dhol, Magra, Jinga etc. The production of Dry fish is carried out in Mangrol and Chorwad villages of Junagadh district.

Chorwad and Mangaol are some busiest fish landing centres situated on the costal belt. The details of Taluka wise list of coastal villages is attached in Annexure-7.

Livestock details:-

Livestock details of the District according to19th Livestock Census-2012 of Gujarat State.

Cattle	Buffalo	Sheep	Goat	Horse	Donkey	Camel	Dog	Duck	Poultry	Hatchery
514772	546204	40665	126840	819	403	802	35020	251	97082	79783

There are 123052 Livestock and 176865 Poultry available in District. By examining the details of Animal wealth survey 2012, we can know that the animal wealth has been increased at 4.28 %. This is due to the greater facilities is provided in this district.

There are 1 veterinary hospital, 27 dispensory, 11 primary animal care centres, and 4 mobile veterinary dispensory provides services for animal care in District. In year 2015-16, total 56840 animals were given treatment, while total 1630 male animal's castration was done.

• Forest

Total area of the District is 8848 sq km out of that total 1230 sq km of land is covered by forest, which is known as gir forest. Main outcome through forest region is building (construction) wood like saag and bamboo. Bidi/eaves and some fruits like Custard Apple (Sitafal), Rayan, Timbru, Karmada etc. are also obtained through this area.

The Sasan Gir Lion Sanctuary is home of some 300 Asiatic lions. The sanctuary was created in 1913 to provide protection to the largest surviving groups of the Asiatic lions. It was given the status of the sanctuary in 1965.



The Sasangir National Park accommodates the wild animals like chinkara, wild boar, striped hyena, jackal, common langur, porcupine, hare, black buck and other animals. The Kamleshwar Dam in Sasangir Wildlife Sanctuary is home to the marsh crocodile commonly seen in the river. There is also the only crocodile-breeding farm in this national park.

	I opulation	/11		Vera > 10(1, 10	71 1001 1001 2001 201	
Year	Male	Female	Total	Year> 1961, 19	71, 1981, 1991, 2001, 201	
1961	638296	607347	1245643	Male	Female	Total
1971	855671	801006	1656677			
1981	1074605	1026104	2100709			
1991	1222262	1172597	2394859			
2001	1252350	1195823	2448173			
2011	784330	741275	1525605			

According to population survey of 2011 for Junagadh district, total population of district is 15.25 lakhs. Out of that there are 7.84 lakh males and 7.41 lakh are females. Total no of people having knowledge of words (literate) is 10.74 lakh including 6.03 lakh male and 4.71 lakh female. The percentage of literacy in District is 70.46 %. Total rural population in district is 9.52 lakh including 4.90 lakh males and 4.61 lakh females. While urban population of district is 5.73 lakh including 2.93 lakh males and 2.79 lakh females. Rural population of Junagadh district is more than a double compared to the urban population.

Total Population of Scheduled Caste in Junagadh District is 1.51 lakhs. Out of them rural population is 1.10 lakh and urban population is 0.41 lakh.

Total Population of Scheduled Tribe in Junagadh District is 37810. Out of them rural population is 25691 and urban population is 12119.

By seeing Taluka wise population register of Junagadh district, there is urban population in Manavadar, Vanthali, Junagadh, Visavadar, Keshod, Mangrol and Malia. Where as urban population is not there in Bhesan and Mendarada taluka.

As per population survey of 1991 the District had total 15 talukas. While in population survey of 2001 the district was derived in 14 Talukas and after population survey report of 2011 District is now derived in only 10 Taluka. Detail of Polulation is available at Annexure 2, 3, 4, 5.

• Population

• Agricultural Land and Cultivation

During 2015-16, agricultural available against total land was 428296 hectares. During the Kharif season main crops of this district are peanut, millet, reasame, and Juwar while in Ravi season wheat, Cotton and Millet are major crops. Large scales of Mangos "Ambas" are sawing as "Bagayat"at Vanthali, Mendarda and Maliya Taluka. The mango of this area is known as "Kesar" is famous in in all over the world. Besides this, Ravna (Jambu) can also



make available before rainy (monsoon) season which can be used in Ayurvedic medicine.

Cotton is cultivating on large-scale in Manavdar Taluka. Because of that Manavdar and Bantva are known for its cottons markets. In year 2015-16 Cotton was cultivated on 81808 hectares and Groundnut was cultivated on 226519 hectares of area in the District

• Industry

There are over 40 medium scale industries are in Junagadh district, involved in sectors such as; edible oil, refinery plants and fish processing units. Under law of factory act 1948, total no of registered factories are 21 and due to it total 14524 persons get employment. Industries like Peanut oil's mills and soda ash factories are situated in Maliya, Bhesan, Vanthali, Manavadar, and Junagadh Taluka. There are over 6,000 Small Scale Industries operating in district at various sectors that includes food products, chemicals, electrical equipments, textiles and repairing & servicing. Maximum number of SSI units (3,018 Units) related to repairing & servicing are located



in Junagadh followed by food products industry with over 503 units. Most of the small scale industries are located in Junagadh, Keshod, Manavadar and Mangrol talukas of the district.

• Transportation - Roads, Railway, Airport.

The Total length of National Highways passed from district is 139 km. (National Highway 8D, connecting Junagadh with Rajkot, National Highway 8E passes through the district connecting it to Bhavnagar and Amreli district. The district is also connected to Jamnagar and Porbandar through NH 8E). District has total 823 km of State highways. District has total 266 km of railway lines includes 106 km of broad gauge, which is directly connected with 27 villages and 4 Cities. There is no railway line available in Mangrol, Manavadar, Bhesan and Mendarda. The district has also a domestic airport located at Keshod connecting it to Porbandar and Mumbai.



• Electrification

Approximately all villages covered under Jyotigram Yojna including all urban areas where electricity is supplied. In year 2014-15 total 680240 kilo watt electricity was consumed in district. Among it 48.36 % was used for industrial purpose, 5.38 % for Vari home and general lightening and 28.06 % use was for household, while 7.34 % was for other use. There are total 23 sub-stations in the district including 5 sub-stations of 220 KV, 4 substations of 132 KV and 14 substations of 66 KV each.

• Mine Minerals

Lime stone, Challa & Boxite are the main minerals of the district. In year of 2015-16 production of Chuna pathar was registered as 648949 Metric Tonne, where as production of Black Stonee was registered as 897531 metric tones. The general minerals like House construction stone, common sand, moram, etc were registered as 1980059 metric tones.

• Educational facilities

Total 762 Government primary schools, 230 Secondary School, 197 Higher Secondary Schools and 4 other schools are registered in District. Average 51 primary schools and 13.27 middle schools are available for each 1 lakh population. No village in District is remains without primary school except forest area. Junagadh Agricultural University offers education in agriculture, agriculture engineering and fisheries. It operates fruit, oilseed, sugarcane & wheat research Institutes with total testing centre.

• Medical and health services

Health sector of Junagadh has 1 Medical College, 1 Civil Hospital and 10 CHCs available in various talukas. District has total 38 running primary health centres and 6 Allopathic and 4 Mobile Dispensaries. Patients of Rural area are getting primary treatment, health and family welfare related services along with other health facilities through 5 mobile comprehensive health care units and 2 mobile dispensaries attached with all primary health centres & sub-health centres. The district has also an Ayurvedic Regional Research Centre. There are total 16 Ambulance available with 108-EMRI for at least one at each Taluka for attending Health Emergencies.





Sr	Name	House hold	Total Population	Male	Female	Literacy Rate	Working Population	Non Worker
1	Manavadar	28943	132830	68702	64128	70.85	58877	73953
2	Vanthali	20504	97189	50481	46708	69.15	47506	49683
3	Junagadh	93406	439420	225794	213626	77.01	161390	278030
4	Bhesan	16034	79712	40711	39001	67.31	37732	41980
5	Visavadar	28798	140023	71822	68201	67.00	67382	72641
6	Mendarda	14832	68531	35440	33091	70.48	32588	35943
7	Keshod	40722	194746	100239	94507	70.81	86538	108208
8	Mangrol	38058	212973	109066	103907	64.61	81813	131160
9	Malia	29705	160181	82075	78106	64.84	74347	85834
	Total	311002	1525605	784330	741275	70.46	648173	877432

General Population of Junagadh District as per Census-2011.

ANNEXURE - 3

Vulnerable Population of Junagadh District

S -1	Nama	Population	Old Age	BPL	Handicap	Blind	Total	Total
Sr	Iname	0-6 Years	Persons	Families	Persons	Persons	SC	ST
1	Manavadar	12434	9247	1627	432	100	18851	2691
2	Vanthali	9566	4547	2782	516	142	12963	1410
3	Junagadh	40950	20576	3943	866	0	37461	5344
4	Bhesan	7992	5141	2350	344	47	7254	281
5	Visavadar	13966	5729	4748	103	195	10903	1026
6	Mendarda	6521	26120	1234	40	5	7479	188
7	Keshod	19498	12223	4400	618	220	22127	8390
8	Mangrol	27846	7696	6474	624	168	21780	13405
9	Malia	18214	11523	5041	643	164	13153	5075
	Total	156987	102802	32599	4186	1041	151971	37810

ANNEXURE - 4

Area, Population Density, Inhabited, Uninhabited Villages of Junagadh District

S	Nome of Toluko	Area in	Population	Г	Cotal Villages		City
Sr.	Name of Taluka	Sq. Km.	Density	Inhabited	Uninhabited	Total	City
1	Manavadar	591.80	215	55	0	55	2
2	Vanthali	393.10	248	46	0	46	1
3	Junagadh	669.80	569	75	2	77	1
4	Bhesan	438.60	168	44	2	46	0
5	Visavadar	901.70	147	86	16	102	1
6	Mendarda	363.80	182	45	3	48	0
7	Keshod	556.60	316	53	0	53	1
8	Mangrol	572.60	330	63	0	63	1
9	Malia	539.60	269	63	0	63	1
	Total	5027.60	272	530	23	553	8

Bifurcation of Populated Villages as Population of Villages

					Vill	ages Poj	pulation		
Sr	Nomo of Toluko	Populated	Less	200	500	1000	2000	5000	More
51.		Villages	then	to	to	to	to	to	then
			200	499	999	1999	4999	9999	10000
1	Manavadar	55	0	3	15	22	15	0	0
2	Vanthali	46	0	2	15	13	13	3	0
3	Junagadh	75	10	6	13	22	15	2	1
4	Bhesan	44	6	1	11	15	9	2	0
5	Visavadar	86	10	9	20	32	12	3	0
6	Mendarda	45	3	7	12	15	7	0	0
7	Keshod	53	0	1	8	24	15	5	0
8	Mangrol	63	0	0	11	23	27	2	0
9	Malia	63	0	0	12	38	8	4	1
	Total	530	29	29	117	204	121	21	2

ANNEXURE - 6

Rain Fall mm -Detail of Junagadh District 2013-2023- Till 30/11/2023

Sr.	Taluka	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	Bhesan	1140	565	637	684	632	508	1173	1537	784	813	1300
2	Junagadh Ta	1530	1301	725	1241	881	738	1370	1574	978	1247	1727
3	Junagadh Ci	1530	1301	725	1241	881	738	1370	1574	978	1247	1727
4	Keshod	1263	1180	474	645	703	798	1341	1602	1160	918	1624
5	Maliya	1210	1264	850	1075	994	1320	1447	1782	1295	1223	1540
6	Manavadar	1384	1303	576	809	809	675	1130	1753	1140	1286	1194
7	Mangrol	854	1010	580	603	956	848	1015	1159	1418	1016	1552
8	Mendarda	1366	1006	445	881	602	1058	1376	1521	1066	1189	2094
9	Vanthali	1539	1270	770	1042	975	743	1492	1733	1130	1248	1588
10	Visavadar	1669	1020	999	1365	926	995	2090	2262	1777	1495	2551

Detail of Coastal Villages

	List of villages within 1 to 10 km of coast in Junagadh district.										
Sr.No	Taluka	1 to 10 km	Village	Population							
1	Mangarol	1	Aatroli	3666							
2	Maliya Hatina	1	Corvad	22718							
3	Maliya Hatina	1	Jhunjharpur	2033							
4	Mangarol	2	Khodada	1453							
5	Mangarol	2	Divasa	3474							
6	Mangarol	2	Sangavada	1547							
7	Mangarol	2	Maktupur	4097							
8	Mangarol	2	Lohej	3091							
9	Mangarol	2	Mankhetra	2529							
10	Mangarol	2	Shahpur	3975							
11	Mangarol	2	Shil	7019							
12	Mangarol	2	Rahij	2779							
13	Mangarol	2.5	Mangarol	91720							
14	Maliya Hatina	2	Khambhaliya	2224							
15	Maliya Hatina	2	Visanvel	3726							
16	Maliya Hatina	3	Shukhpur	1395							
17	Mangarol	3	Sheriyaj	5370							
18	Mangarol	3	Arena	2976							
19	Mangarol	3	Zariyavada	2563							
20	Mangarol	4	Juna Nava Kotda	1952							
21	Maliya Hatina	4	Kukasvada	7837							
22	Mangarol	5	Kankasa	2120							
23	Mangarol	5	Talodra	1612							
24	Mangarol	5	Farangta	1686							
25	Maliya Hatina	5	Lagotra	1480							

26	Mangaral	6	Ajak	1050
20	Ivialigator	0	Ајак	0201
27	Mangarol	7	Hushenabad	3161
28	Mangarol	7	Mekhdi	4050
29	Mangarol	7.6	Rudalpur	2167
30	Maliya Hatina	7	Budhecha	1946
31	Maliya Hatina	7	Ghumali	1250
32	Maliya Hatina	7	Kanek	1400
33	Maliya Hatina	7	Gotana	1353
34	Mangarol	8	Samarda	1714
35	Mangarol	8	Chankhva	2013
36	Mangarol	8	Vadla	1038
37	Mangarol	8	Nagichana	3256
38	Mangarol	8	Nandarkhi	2919
39	Mangarol	8	Bamanvada	2041
40	Mangarol	8	Chandvana	3421
41	Mangarol	8	Shrma	1712
42	Mangarol	9	Ghodadar	1575
43	Mangarol	9	Gorej	2423
44	Maliya Hatina	9	Gadu	7301
45	Maliya Hatina	9	Khera	2725
46	Maliya Hatina	9	Shantipura	1973
47	Maliya Hatina	9	Januda	1770
	Tot	al		238108

Mangarol			
1KM	1		
2 KM	9		
3 KM	4		
4 KM	0		
5 KM	4		
6 KM	0		
7 KM	3		
8 KM	0		
9 KM	11		
TOTAL	32		

Maliya Hatina		
1KM	2	
2 KM	2	
3 KM	1	
4 KM	0	
5 KM	2	
6 KM	0	
7 KM	4	
8 KM	0	
9 KM	4	
TOTAL	15	

Details of Cyclone Shelters -Mangrol & Maliya Haitna Taluks-(MPCS)

Sr.no.	Name of District	Name of MPCS/Village	Name Of Taluka
1	Junagadh	Januda	Maliya Hatina
2	Junagadh	Jhunjharpur/ Jujarpur	Maliya Hatina
3	Junagadh	Khambhaliya	Maliya Hatina
4	Junagadh	Shantipura	Maliya Hatina
5	Junagadh	Visanvel	Maliya Hatina
6	Junagadh	Ajak	Mangrol
7	Junagadh	Antroli	Mangrol
8	Junagadh	Arena	Mangrol
9	Junagadh	Bamanvada	Mangrol
10	Junagadh	Chankhva	Mangrol
11	Junagadh	Divasa	Mangrol
12	Junagadh	Farangta	Mangrol
13	Junagadh	Kankasa	Mangrol
14	Junagadh	Khodada	Mangrol
15	Junagadh	Lohej	Mangrol
16	Junagadh	Maktupur	Mangrol
17	Junagadh	Nandarkhi	Mangrol
18	Junagadh	Rahij	Mangrol
19	Junagadh	Sangavada	Mangrol
20	Junagadh	Shil	Mangrol
21	Junagadh	Talodra	Mangrol
22	Junagadh	Zariyavada	Mangrol
23	Junagadh	Nagichana	Mangrol
24	Junagadh	Dhelana	Mangrol
25	Junagadh	Chandvana	Mangrol

Distance from	Ocean and	Moon Soo	I aval for	Villago	Residential	Aroos
Distance nom	Ocean anu	Mean Sea	Level IUI	v mage	Nesiuentiai	Altas

Sr.	Details	No. Villages	Taluka Covered
1	Distance from Ocean < 2 K.M.	8	2
2	Mean Sea Level < 9 Meter	24	2
3	Distance from Ocean < 15 K.M.	89	3
4	Mean Sea Level < 30 Meter	131	5
5	Distance from Ocean < 30 K.M.	193	4
6	Mean Sea Level < 100 Meter	374	8
7	Distance from Ocean < 100 K.M.	527	10

• Analysis...

- Nearest Villages from Ocean are Khodada of Mangrol and Jhunjharpur of Maliya are within 1.0 Km. from Ocean.
- Remote Villages from Ocean for Junagadh District are (Sankarola, Dholwa & Chuda) of Bhesan Taluka are 92 Km. Far from Ocean.
- Minimum Mean Sea Level of Residential area for Antroli, Shil, Mangrol (M), Navalkhodhed, Samarda, Bagasra-Ghed, Ghodadar and Hantarpur of Mangrol are on Height of 6 Meter. Where as Chorwad of Maliya Taluka is on Height of 7 Meter.
- Maximum Mean Sea Level for Residential Area for Ravani Mundiya of Visavadar Taluka is on Height of 311 Meters.
- Distance of Girnar Hills from Ocean is 66 Km. and Height (Mean Sea Level) is 887 Mtr.

ANNEXURE - 9

(A) Details of Ambulance services available in District (Taluka Wise) :

Sr.	Taluka	Name of Office	No. of Ambulance	Contact No.
		Civil Hospital	1	2651436
1	Junagadh	Sarvoday Blood Bank	3	2622097
1	Junagadn	Junagadh Muni. Corporation	1	2626101/102
		C.H.C. Bilakha	1	2683955
2	Vanthali	C.H.C. Vanthali	1	222192
2	Vashad	C.H.C. Keshod	1	266339
3	Keshod	T.B. Hospital	1	266039
4	Malina	C.H.C. Maliya (H)	1	222278
4	Manya	Active Foundation Maliya (Hatina)	1	9879072899
5	Mendarada C.H.C. Mendarada		1	241351
6	Vicewoder	C.H.C. Visavadar	1	222201
0	visavadal	Brahmananddham Chaparada	1	262129/130
7	Bhesan C.H.C. Bhesan		1	253428
8	Manavadar	C.H.C. Manavadar	1	221244
		C.H.C. Mangrol	1	222010
9	Mangrol	Shifa Hospital Mangrol	1	222728
		President KHARAVA SAMAJ	1	222258

(B) Details of EMRI-108 Ambulance services available in District (Taluka Wise) :

SR NO	108 location	CUG NUMBER	TALUKA
1	Bhesan	6357420863	Bhesan
2	Bilkha	6357420871	Junagadh City
3	Chorwad Harbour	6357420869	Malia Hatina
4	Junagadh Railway Station	6357420866	Junagadh City
5	Keshod	6357420865	Keshod
6	Maliyahatina	6357420864	Malia Hatina
7	Manavadar	6357420867	Manavadar
8	Mangrol Harbour	9099027641	Mangrol
9	Mendarada	6357420875	Mendarda
10	Motibaug	6357420872	Junagadh City
11	Vanthali	6357420860	Vanthali
12	Visavadar	6357420868	Visavadar
13	Backup 22	6357420870	
14	PHC Sasan	6357420874	Mendarda
15	Keshod2	6357373044	Keshod
16	Vadaal Chokdi	6357373045	Junagadh

ANNEXURE - 10

(A) Taluka wise Detail of C.H.C., P.H.C. and Sub centres of district.

Sr	Taluka	Name of C.H.C.	Name of P.H.C.	Name of Sub Centres	
	Junagadh		1.Dungarpur	Vijapur, Palasava, Ivanagar, Timbavadi, Jhanjarada, Joshipura	
1			2.Bagadu	Semarada, Badalpur, Anandpur, Khadiya	
		dh Bilakha	3.Khadiya	Bandhala, Chorvadi, Mevasa, Kamari	
			4.Vadal	Kerala, Chowki, Ishapur, Bamangam, Dolatpara, Khamadhro	
			5.Majevadi	Goladhar, Jalansar, Makhiyala, Patrapsar, Vadhavi	
	Vanthali	anthali Vanthali	1.Kanaja	Mota Kajaliyala, Santalpur, Balot, Bantiya, Japodar, Ravani, Dhandhusar, Vanthali	
2			2.Thana Pipali	Bhatiya, Lushala, Tinmas, Akha, Tikar,	
			3.Shapur	Koyali, Dhanfuliya, Mahobatpara (Navagam), Vadala	
			1.Sardargadh	Khadiya, Jinjari, Sanosara, Vedava, Manavadar,	
3.	Manavadar	lanavadar Manavadar	2.Batava	Bhalgam, Nanadiya, Samega, Sitana,	
			3.Limbuda	Bhindora, Sheradi, Desinga, Vadasada, Pajod	

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Sr	Taluka	Name of C.H.C.	Name of P.H.C.	Name of Sub Centres
			4.Nakara	Ambaliya, Koylana, Kothariya, Sarangpipali, Kothadi, Pipalana
			1.Mesvan	Chandigadh, Agatray, Mangalpur, Manekvada, Badodar, Keshod
4	Vll	Vll	2.Ajab	Rangpur, Shergadh, Kaneri, Dhrabavad, Prasali,
4	Kesnod	Kesnod	3.Kevadra	Sondarada, Pankhan, Bhatsimroli, Moti Ghansari, Pipali
			4.Balagam	Khirasara, Khamida, Sarod, Sutrej, Bamnasa
		Maliya (H)	1.Bhanduri	Gadodar, Panidhra, Gadu, Moti Dhanej, Kadaya, Maliya
5.	Maliya (H)	Maliya (H)	2.Amarapur	Tarsingada, Matarvaniya, Viradi, Zalandhar, Vadiya, Dudhala, Avaniya
		Charwood	3.Kukasvada	Khambhaliya, Khera, Kanek, Chorvad,
		Chorwad	4.Khorasa	Visanvel, Shantipara, Barula, Chuladi, Jangar, Babara,
		dar Visavadar	1.Kalsari	Visavadar, Kalavad, Jetalvad, Vekariya, Sarsai, Dudhala, Sukhpur
			2.Moti	Nani Monpar, Lhambha, Limadhra, Baradiya, Dadar,
6.	Visavadar		Monpari	Prempara
			3.Motakotada	Navaniya, Mangnath Pipali, Pirvad, Leriya, Khambhaliya
			4.Bhalgam	Sapar, Lundhiya, Jambuda, Chhelnaka, Shobhavadala
			1.Shil	Lohej, Rahij, Kankasa, Menaj, Shapur, Sheriyaj, Divasa
7.	Mangrol	Mangrol	2.Juthal	Arena, Sultanpur, Sheriyakhan, Rudalpur, Sakrana, Dhelana
			3.Mekhadi	Kalej, Bamanvada, Nagichana, Ajak, Dirana, Atroli
			4.Bagasara	Miti, Osa, Hantarpur, Samarada, Sarama, Sandha
8.	Mendrada	Mendarada	1.Datrana	Araniyana, Rajesar, Samadhiyala, Alidhra, Mendarada, Manpur,Nagalpur, Gadhani, Ambala, Chandravdi, Najapur, Gundana, Motikhidyar
0	Rhasan	Bhasan	1.Chuda	Morvada, Sankrola, Parabvavadi, Barvala, Junidhari, Gundali, Bhesan, Vandarvad, Chanaka
ש.	Diresaii	Dilesali	2.Ranpur	Khambhaliya, Bamangadh, Mendpara, Kariya, Chhodvadi

(B) Detail of Allopathic Dispensaries of District:

Sr. No	Location of Allopathic Dispensaries
1	Allopathic Dispensary, (Male), Chorvad, Ta- Maliya [288532, 9825798872]
2.	Allopathic Dispensary, (Female), Chorvad, Ta-Maliya [288339, 9879297527]
3.	Allopathic Dispensary, Bamnasa, Ta- Keshod [99255 36736]
4.	Allopathic Dispensary, Kathrota, Ta- Junagadh [94280 88774]
5.	Allopathic Dispensary, Vekari, Ta- Manavadar
6.	Allopathic Dispensary, Chandavana- Ta- Mangrol [92281 77974]

(C) Detail of Mobile Dispensaries of District.

Sr. No	Location of Mobile Dispensaries
1	Mobile Comprehensive Health care unit, Junagadh 9925166811
2.	Mobile Comprehensive Health care unit, Sasan, Ta- Mendarda 9727702673

3.	Mobile Comprehensive Health care unit, Kalsari, Ta- Visavadar9879428434
4.	Mobile Comprehensive Health care unit, Mangrol 9879877122

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Keshod-08 Mangrol-12 Manavadar- 04 Total-24

Detail of GHED Villages and Contacts.

Sr	Taluka	GHED	Sarpanch Name	Contact
1	Vaabad	V mages	Devener dhhei Dithiye	0722616020
1	Keshod	Aknodad	Devanandonal Pitniya	9723616939
2	Keshod	Balagam	Dhirajbaa Chuhan	9913505050
3	Keshod	Bamnasa	K.D.Nandaniya	9979713043
4	Keshod	Madhada	Manjuben D. Ozada	9624822943
5	Keshod	Muliyasa	Veljibhai Vala	9773103111
6	Keshod	Panchala	Msaribhai Parmar	9624517017
7	Keshod	Sarod	Nathabhai Ratjiya	9909394880
8	Keshod	Sutrej	Rajubhai Sutreja	9825561488
9	Manavadar	Ambaliya	Daxaben V.Hathliya	8141939869
10	Manavadar	Koyalana	Hansaben Maradiya	9427228276
11	Manavadar	Matiyana	K.R. Borkhatriya	9925415123
12	Manavadar	Padaradi	Jagdishbhai K.Muchdiya	9726614317
13	Mangrol	Bagasara Ghed	Rambhai J.Timba	9662250550
14	Mangrol	Bhathrot	Deviben H. Vadhiya	9879284199
15	Mangrol	Fulrama	Ranjanben.M. Kinderkhadiya	7203829999
16	Mangrol	Ghodadar	Popatbhai Sagarka	9558464626
17	Mangrol	Hantarpur	Gitaben.Vinzabhai Odedra	9998411195
18	Mangrol	Langad	Rasila R. Mokariya	9351678917
19	Mangrol	Mekhadi	Virambhai Odedra	9998939421
20	Mangrol	Osa Ghed	Ajuben Chudasama	9924007680
21	Mangrol	Samarda	Kamlaben Bhutiya	6353732309
22	Mangrol	Sandha	Danabhai Balas	9879045988
23	Mangrol	Sarama	Kantibhai Chuhan	9586455361
24	Mangrol	Thalli	Chaganbhai K.Chudasama	9825368364

Details of Medium/Minor Irrigation Dams State & Panchyat With F.R.L. (mt.) and Villages Located Downstream Area

Sr. No	Taluka	Name of DAM/Sche me	Place of DAM	Type of DAM	Longitude	Latitude	Full Reservoir Level (mt.)	Total Door Flow Capa ty (Cum		Flow Capaci ty (Cume	Downstream A	rea Villages
								No.	Size (mt.)	c)	Name of Taluka	Name of Villages
1	Junagadh	Ozat-II	Badalpur	Medium	70.5759	21.3855	77.50	25	9.14 x 6.10	14890	Junagadh	Bela, Rameshwar, Mevasa (Bava), Badalpur, Anandpur
											Vanthali	Raipur, Sukhpur, Vanthali, Kanza
2	Junagadh	Ozat Weir	Anandpur	Minor	70.5202	21.4005	38.71	-	-	3681	Junagadh	Anandpur
			Ĩ								Vanthali	Raipur, Sukhpur
											Mendarda	Nagalpur
3	Junagadh	Uben Weir	Kerala	Minor	70.4800	21.6463	40.54	_	-	1970	Junagadh	Kerala, Majevadi, Taliyadhar, Vadhavi, Vanandiya, Vala Simdi
											V anthali	Balot, Dhandhusar, Vanthali
L												// 100 //-

4	Junagadh	Hasnapur (W.S.)	Dervan	Medium	70.5180	21.5763	148.13	-	-	488	Junagadh	Bamangam, Dervan, Galiyavad, Sabalpur, Saragvada, Vadal, Virpur
5	Mendarda	Madhuvanti	Kenedipu r	Medium	70.4872	21.2605	165.19	-	-	750	Mendarda	Kenedipur, Babartirth, Moti Khodiyar, Amargadh, Mendarda, Alidhra, Mithapur
											Vanthali	Bandhada, Bhatiya, Bodka, Gadoi, Kanjhadi, Mota Kajaliyala, Tinmas, Vaspada
6	Visavadar	Ambajal	Jambudi	Medium	70.7350	21.2844	182.31	4	9.14 x 6.10	1030	Visavadar	Jambudi, Satadhar,Mo taChaprda, Navi Chavand, Khijadiya
7	Visavadar	Jhanjheshri	Mahuda	Medium	70.8044	21.3952	149.96	-	-	935	Visavadar	Mahudi, Mahuda, Dhebar,

												Desai Vadala, Sukhpur, Rupavati, Ishwariya, VAjdi, Khambhaliy
8	Visavadar	Dhrafad	Sarsai	Medium	70.7044	21.3466	124.00	11	9.14 x 6.10	3073	Visavadar	a, Khijadiya Sarsai, Mota Chaparda, Navi Chavand, Khijadiya
9	Visavadar	Prempara	Prempara	Minor	70.7116	21.2575	127.50	-	-	130	Visavadar	Prempara
10	Bhesan	Uben	Bhatgam	Medium	70.6311	21.6288	107.61	-	_	1550	Junagadh	Bhiyal, Chowki (Sorath), Jalansar, Kerala, MajevadiTal iyadhar, Vadhavi, Vala Simdi, Vanandia
											Vanthali	Balot, Dhandhusar, Vanthali
											Jetpur	Arab Timbadi, Bava Pipalva, pipalva
11	Bhesan	Galath	Galath	Minor	70.7891	21.5700	45.10	-	-	152	Bhesan	Galath,
												-// 102 //-

												Barvala
2	Bhesan	Mota Gujariya	Mota Gujariya	Medium	70.7536	21.4952	140.02	-	-	1320	Bhesan	Mota Gujariya, Mota Kotda
13	Vanthali	Ozat Weir Shapur	Shapur	Minor	70.3719	21.4583	32.85	10	18.0 0 x 3.05	10581	Vanthali	Vanthali, Shapur, Nana Kajaliyala
14	Vanthali	Ozat Weir Vanthali	Vanthali	Minor	70.3027	21.4672	27.50	12	9.14 x 3.05	7170	Vanthali	Kanjha, Tikar, Vanthali, Akha
											Manavadar	Piplana
										-	Kutiyana	Amipur
											Porbandar	Maiyari, Balej, Ratiya, Nav
												Bandar,
15	Vanthali	Sabali	Khorasa	Minor	70.3269	21.3608	43.75	11	9.14 x	1159	Vanthali	Khorasa, Sendarda
									3.05		Keshod	Dervan, Magharvad , Manekvad
16	Manavada r	Bantwa- Kharo	Bantwa	Minor	70.0769	21.5047	16.25	16	9.14 x 3.05	1764	Manavadar	Bhalgam, Kodvav, Eklera, Samega
											Kutiyana	Revdra, Gadvana, Dharsen, Tarkhal
17	Malia-	Vrajmi R.R.	Amarapur	Minor	70.4090	21.1464	94.00	9	9.14	1175	Malia-Hatina	Dudhala,

	Hatina								x 3.05			Itala, Juna Vandarvad, Kadava,
												Sarkadiya, Vadiya,
0		D. I.C.	D 11 1									Vandarvad
8	Junagadh	M.I.Scheme	Bandhala	Minor	70.605426	21.4766 53	47.65	-	-	354.00	Junagadh	Bilakha, bandhala, bhalagam
9	Junagadh	Gundajali Weir	Patapur	Minor	70.496631	21.4248 85	29.25	-	-	887.00	Junagadh	Patapur, sodvadar
0	Junagadh	Baliyawad M.I.Scheme	Baliyavad	Minor	70.566793	21.5937 49	116.40	-	-	166.00	Junagadh	Baliyavad,i hapur,katha ota
1	Bhesan	Paswada M.I.Scheme	Paswada	Minor	70.600491	21.5596 22	213.95	-	-	375.00	Bhesan	Kariya,dud ala,kharach ya,mendapa a
2	Bhesan	Chhodavadi M.I.Scheme	Chhodava di	Minor	70.623713	21.5022 99	94.40	-	-	182.00	Bhesan	Chhodavad navavaghai ya,mandlik ur
3	Visavadar	Vekaria M.I.Scheme	Vekariya	Minor	70.919605	21.3309 44	101.20	-	-	571.00	Visavadar	Vekariya, malsika
4	Visavadar	Ambajal Weir	Sarsai	Minor	70.673100	21.3396 00	146.30	-	-	1268.0 0	Visavadar	Chaparda, nanimonpar
5	Visavadar	Bandhukio Weir	Jambala	Minor	70.556500	21.3362 00	30.78	-	-	564.00	Visavadar	'Jambala

26	Mendarda	Chandrawa diM.I.Sche me	Chandrav adi	Minor	70.441009	21.2175 76	92.20	-	-	304.00	Mendarda	, ambalgadh,t ashingada, matarvani
27	Mendarda	Ratada M.I.Scheme	Rajavad	Minor	70.393306	21.2733 41	101.00	-	-	146.00	Mendarda	Rajavad, ajab,amabal a
28	Maliya Hatina	Ambakui M.I.Scheme	Ladudi	Minor	70.470676	21.1260 44	218.10	-	-	323.29	Maliya Hatina	Ladudi, babara ,dhanej,drab avad
29	Maliya Hatina	Lachhadi M.I.Scheme	Pipalava	Minor	70.405447	21.0506 39	97.80	-	-	426.84	Maliya Hatina	Pipalava, achhindra,da nderi
30	Maliya Hatina	Gadu Weir	Gadu	Minor	70.294537	21.0575 90	29.49	-	-	-	Maliya Hatina	Gadu, visanvel, kanek, chorvad
31	Visavadar	Sonaradi M.I.Scheme	Bhatvava di	Minor	70.881564	21.3919 43	51.25	-	-	419.74	Visavadar	Bhatvavadi, kadaya, bhalagam

Resources Provided by Govt. at Various Levels. Till Available

Sr.	Name of Taluka	Life Saving Jacket	Life Buoy	200 Feet Ropes	100 Feet Ropes	Generator
1	SDM- Junagadh	-	-	-	-	1
2	SDM- Keshod	-	-	-	-	1
3	Mamlatdar-Maliya	07	-	2	4	1
4	Mamlatdar-Mangrol	10	20	5	10	1
5	Mamlatdar-Vanthali	11	03	4	8	1
6	Mamlatdar-Keshod	03	16	3	6	1
7	Mamlatdar-Junagadh	15	18	1	2	1
8	Mamlatdar-Manavadar	10	11	2	4	1
9	Mamlatdar-Bhesan	-	-	-	-	1
10	Mamlatdar-Mendarada	-	-	-	-	1
11	Mamlatdar-Visavadar	-	-	-	-	1
12	Municipal Corporation	50	50	5	10	-
	Total	106	118	22	44	11

(A) Life Jackets / Life Buoy / Ropes / Generators

(B) Fire Fighter / Water Browsers / Boat / De-Watering Pump / Emergency Light Details

Sr	Name of ULB / Nagar Palika / Corporation	Fire Fighter	Water Browser	Boat	De Watering Pump	Emergency Lighting System	Motorcy cle Water Mist
1	Municipal Corporation, Fire Branch, Junagadh	2	2	3	2	5	3
2	Bantwa Nagar Palika	1	-	-	-	2	-
3	Chorwad Nagarpalika	1	-	-	-	2	-
4	Keshod Nagar Palika	1	1	-	2	2	1
5	Manavadar Nagar Palika	2	1	-	-	2	1
6	Mangrol Nagar Palika	1	1	-	2	2	1
7	Vanthali Nagar Palika	-	-	-	-	2	-
8	Visavadar Nagar Palika	-	-	-	-	2	-
9	DEOC-Collectorate, JND	-	-	1	-	2	-
	Total	8	5	4	6	21	6

Rain Gauge Machines available each Taluka.

Sn	Name of	Type of	Place / Office
51.	Taluka	Rain Gauge	
1	Junagadh	Simple Measure	Mamlatdar Office, Junagadh
2	Junagadh	Automatic	Weather Station, Agriculture University, Junagadh.
3	Vanthali	Simple Measure	Mamlatdar Office, Vanthali.
4	Manavadar	Simple Measure	Mamlatdar Office, Manavadar.
5	Bhesan	Simple Measure	Mamlatdar Office, Bhesan.
6	Visavadar	Simple Measure	Mamlatdar Office, Visavadar.
7	Mendarada	Simple Measure	Mamlatdar Office, Mendarada
8	Maliya Hatina	Simple Measure	Mamlatdar Office, Maliya Hatina.
9	Keshod	Simple Measure	Mamlatdar Office, Keshod.
10	Mangrol	Simple Measure	ICDS Office, Nr. Mamlatdar Office, Mangrol.

ANNEXURE - 15

Latitude - Longitude and Distance of Taluka Hq. and City Places.

Sr.	Name of Taluka	North Latitude	East Longitude	Distance from District HQ. in (Km.)	Distance from Ocen in (Km.)
1	Bhesan	21.55	70.70	35	80
2	Junagadh Corporation	21.52	70.44	00	58
3	Keshod (M)	21.30	70.25	37	27
4	Malia	21.15	70.30	58	19
5	Chorvad (M)	21.02	70.23	72	2.5
6	Manavadar (M)	21.49	70.12	37	32
7	Bantwa (M)	21.48	70.07	44	26
8	Mangrol (M)	21.12	70.11	63	3
9	Mendarda	21.31	70.44	26	42
10	Vanthali (M)	21.47	70.33	15	46
11	Visavadar (M)	21.34	70.75	44	60

List of Chemicals and their Antidotes

Sr.	Chemicals	Antidotes
1	Acid & Sulphur Oxide	Sodium Hydro- Carbonate (4% Conc.) Milk, Lime Juice, Milk of
		Magnesia.
2	Ammonia	Skin: Wash with Lactic Acid, Apply soframycin. Eye:Benoxynate
		Novacin-0.4% Conc. Throat : Smelling Ethanol or Ether
3	Benzene, Zylene, Toluen	Wash the skin area plenty of water if affected. Fresh air / Oxygen,
		0.1 mg/kg slowly through injection rest in bed. Don't apply
		Epinefrin, Ifridin etc. Don't apply milk, vegetable oil or alcohol.
4	Bleaching Solution	Milk, Ice cream, eggs, milk of magnesia, aluminium hydroxide gel.
		Do not give acid antidotes.
5	Boric acid and boron deritives	Epicake solution and activated charcoal. If vomited give 5%
		dextrose through injection.
6	Bromates or Cosmetics	Sodium thio sulphate 1ml/ kg 10% solution through injection.
7	Cadmium	Calcium dysodium editate through injection.
8	Carbon monoxide	Pure oxygen through mask. 20% mennytole (1gm/ kg) prednisolon
		1 mg/kg through injection.
9	Cyanides and thio cynates insecticides	Methelene blue or kelocynere injection. If go through respiration
		smelling amaile nitrite (3% solution) and sodium thio sulphate (25%)
	,	solution) through injection.
10	DDT (Helogenated Insecticides)	Epicake syrup, Activated charcoal, saline cathartic diazepam (10 mg
		slowly through injection, wash the skin through water and soap).
		Give pure oxygen if problem in respiration.
11	Di- chloro methane	Hydrocortisone (200mg at every 4 hrs.) Aspirin and if pneumonia
		gives antibiotics.
12	Ethanol	2 gm sodium bi carbonate in 250ml water. Diazepam 10mg through
		injection. I injury in eye of skin wash plenty of water.
13	compounds	Activated carbon.
	Hydrogen sylphide	But the patients at clean air or pure oxygen. Smelling the drops or
14	others sulphides and	Ether or Ethanol Amyl nitrite or Sodium Nitrite pyridovine 25mg/
	Marcantans	kg or 10% Urea 1 gm/kg through injection
15	Indine & its compounds	Milk eninefin 1% sodium this sulphate solution 100ml by oral
16	Irons salts	Concentrative dyferoxemine therapy
17	Magnesium Salts	Calcium gluconate 10% solution 1ml/kg through injection
18	Manganese	Calcium editate
19	Naphthalene	Keep the urinal Alkaline by giving the Sodium bicarbonate at every
		four hour Furosemide 1 ml/kg in liquid
20	Nitrogen Oxide	Prednision or prednisolon 5 mg at every 6 hours
	Phosphours Phospene	Calcium gluconate 10% of 10 ml through injection 5% glucose in
21	and phonhide	water travesty (10% invert sugar) through injection
22	Potassium	
	permanganate	Hot milk, methelene blue (1% solution), ascorbic acid (5% solution)
23	Silica and asbestoses	Dust level should be minimize, use airline respirator, dust collector
	dust	and local ventiliation.
24	Tobacco and Nicotine	Do vomiting, Etropin (full dose), if problem in respiration give pure
		oxygen.
L		<i>, , ,</i>
Action Plan for Earthquake:

Action Plan for Earthquake covers all phases of earthquake management right from mitigation, preparedness, emergency response, relief to recovery.

Earthquake

An earthquake is a series of vibrations on the earth's surface caused by the generation of elastic (seismic) waves due to sudden rupture within the earth during release of accumulated strain energy. The point on the fault where slip starts is the Focus or Hypocenter and the point vertically above this on the surface of the Earth is the Epicentre. The depth of focus from the epicentre, called as Focal Depth, is an important parameter in determining the damaging potential of an earthquake. Distance from epicentre to any point of interest is called epicentre distance.

Earthquake Measurement

Magnitude is a measure of amount of energy released in an earthquake. It is most commonly measured on Richter scale. The earthquake magnitude is determined by use of a seismograph, an instrument that continuously records ground vibrations. An increase of one unit represents an increase of ground shaking by ten times and energy released by thirty two times. Generally, earthquakes of magnitude greater than 5 cause damages while major earthquakes measure 7 or more on Richter scale.

Earthquake Preparedness & Capacity Building:

- 1. Ensure an updated database of critical resources (equipments, life saving facilities, trained personnel, etc.) available in the district is in place.
- 2. Ensure that local authorities in the district are involved in developing their own earthquake management plans.
- 3. Ensure that District EOC is fully functional and communication systems are in order.
- 4. Ensure that open and safe places in the district are identified for mass evacuation.
- 5. Ensure that site for helipad is identified at key locations in the district.

Earthquake Recovery

Detailed Damage and Need Assessment must be conducted before commencing reconstruction and rehabilitation activities. The primary objective of post earthquake damage assessment and need analysis is to provide a clear, concise picture of post disaster situation, to identify damage caused to different sector and to develop strategies for rehabilitation, reconstruction and recovery.

22'30' 21'30' 20'30' 21'30' 21'30' 20'30' 21'30'

Repair and Restoration

Respective departments should carry out timely repair and restoration of the related infrastructure, facilities, services, etc. This shall aid in quickly resuming the essential services they provide. GoG shall coordinate with national and international NGOs, donor agencies and other government bodies to prioritise restoration of critical infrastructure.

Activation of District and Local Level Control Rooms

At district level, nodal centre for coordination and communication is District Emergency Operation Centre (DEOC). DEOC and TEOCs will get fully activated in case of L1 emergency.

Action Plan for Heatwave:

Heat-wave is a condition of atmospheric temperature that leads to physiological stress, which sometimes can claim human life. Heat-wave is defined as the condition where maximum temperature at a grid point is 3° C or more than the normal temperature, consecutively for 3 days or more. World Meteorological Organization defines a heat wave as five or more consecutive days during which the daily maximum temperature exceeds the average maximum temperature by five degrees Celsius. If the maximum temperature of any place continues to be more than 45° C consecutively for two days, it is called a heat wave condition.

Key strategies

The heat-wave action plan is intended to mobilize individuals and communities to help protect their neighbours, friends, relatives, and themselves against avoidable health problems during spells of very hot weather. Broadcast media and alerting agencies may also find this plan useful. Severe and extended heat-waves can also cause disruption to general, social and economic services. For this reason, Government agencies will have a critical role to play in preparing and responding to heat-waves at a local level, working closely with health and other related departments on long term strategic plan.

 \Box Establish Early Warning System and Inter-Agency Coordination to alert residents on predicted high and extreme temperatures. Who will do what, when, and how is made clear to individuals and units of key departments, especially for health.

 \Box Capacity building / training programme for health care professionals at local level to recognize and respond to heat-related illnesses, particularly during extreme heat events. These training programmes should focus on medical officers, paramedical staff and community health staff so that they can effectively prevent and manage heat-related medical issues to reduce mortality and morbidity.

□ Public Awareness and community outreach Disseminating public awareness messages on how to protect against the extreme heat-wave through print, electronic and social media and Information, Education and Communication (IEC) materials such as pamphlets, posters and advertisements and Television Commercials (TVCs) on Do''s and Don''ts and treatment measures for heat related illnesses.

□ Collaboration with non government and civil society: Collaboration with non-governmental organizations and civil society organizations to improve bus stands, building temporary shelters, wherever necessary, improved water delivery systems in public areas and other innovative measures to tackle Heat wave conditions.

Red Alert	Extreme Heat Alert for the	Normal Maximum Temp
(Severe Condition)	Day	increase 6° C to more
Orange Alert	Heat Alert Day	Normal Maximum Temp
(Moderate Condition)		increase 4° C to 5° C
Yellow Alert	Hot Day	Nearby Normal Maximum
(Heat-wave Warning)		Temp.
White	Normal Day	Below Normal Maximum
(Normal)		Temp.

Identification of Color Signals for Heat Alert:

Action Plan for Cyclone:

A long coastline of about 1600 km of flat coastal terrain, shallow continental shelf, high population density, geographical location and physiological features of its coastal areas makes Gujarat, extremely vulnerable to cyclones and its associated hazards like storm, high velocity wind and heavy rains.

Cyclones are huge revolving storms caused by winds blowing around a central area of low atmospheric pressure. In the northern hemisphere, cyclones are called hurricanes or typhoons and their winds blow in an anti-clockwise circle. In the southern hemisphere, these tropical storms are known as cyclones, whose winds blow in a clockwise circle.

Sr.	Types	Wind speed in the center (km/hour)
1	Low pressure area	Less than 31 kmph
2	Depression	31-51 kmph
3	Deep Depression	52-62 kmph
4	Cyclonic storm	63-87 kmph
5	Severe Cyclonic storm	88-117 kmph
6	Very severe Cyclonic storm	118-221 kmph
7	Super Cyclonic storm	More than 222 kmph

Familiarization with terminology - cyclone

Cyclone Forecasting and Warning

In case of cyclones, 72 hours advance warning of various levels of certainty are provided by the IMD. This system is well established and the Gujarat State EOC and ERCs gear up emergency operations soon after the first warning is received.

Cyclone Alert

It is issued at least 48 hours before the commencement of the bad weather when the cyclone is located beyond 500 km from the coast. It is issued every three hours.

Cyclone Warning

It is issued at least 24 hours before the commencement of the bad weather when the cyclone is located within 500 km from the coast. Information about the most likely time/place of landfall is indicated in the bulletin. Confidence in estimation increases as the cyclone comes closer to the coast

Cyclone Response

Response includes not only those activities that directly address the immediate needs, such as 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.

Action Plan for Fire:

The primary role of fire services has been to attend to fire incidents. Besides fire fighting, fire department also attends to other emergencies such as building collapse, road traffic accidents, human and animal rescue etc., and other special service calls. Some fire services also attend medical emergencies for transportation of casualties through ambulances maintained by them.

Fire Starts when a flammable/combustible material is exposed to a source of heat in collaboration with a sufficient quantity of oxygen. Fire can be extinguished by removing any one of the elements of the fire triangle. Fire can be natural or man-made.



TYPES OF FIRES – A, B, & C:

Type A - Cloth, paper and wood that produce Ash

Type B - Gasoline, oil, and other combustible/flammable material placed in a Barrel.

Type C - Electrically energized fires involving equipment and Circuits or Current

There are many reasons which causes fire such as accidents, electrical short-circuit, carelessness, etc. Further, Gujarat is highly industrialized State which increases the vulnerability. Fire causes huge losses of life and property every year. And yet, with some precaution, most fires can be prevented and damage minimized.

TYPES OF EXTINGUISHERS:

Pressurized Water (P/W)- These are normally found in residence halls where cloth, paper, and wood are the most common hazards. They are metallic colored and hold approximately 2 $\frac{1}{2}$ gallons of water. They are capable of discharging a distance of 25' – 30' for approximately 1 minute.

Dry Chemical (ABC) or (BC) – These are normally found in cars, laboratories, and other places where gasoline, oil, and other combustible/flammable liquids are used. They are usually red in color and are capable of spraying $10^{\circ} - 15^{\circ}$ for approximately 30 seconds.

Carbon Dioxide (CO2) – These are normally found only in electrical or mechanical rooms where electricity is the hazard. They are used to put out electrical fires while the equipment is still energized. The carbon dioxide extinguishers are red in color, have no gauge to indicate amount of contents, and are limited to a spray distance of $5^{\circ} - 10^{\circ}$ for about 10 seconds.

Halon - These extinguishers were used for computer room fires in the past, but there use now is questionable because of health risks associated with the halon agents in a fire situation. Amherst College no longer uses this type of extinguisher or extinguishing agent.

Fire Services in Gujarat are under the respective concerned municipal corporations.

Action Plan for Flood & Flash Flood:

Gujarat has seen many damaging floods. Almost all major rivers in the state pas through a wide stretch of very flat terrain (often more than 50 km) before reaching the sea. These flat low lands of lower river basins are prone to flooding.

The one-day Probable Maximum Precipitation (PMP) is often higher than the average annual rainfall in most parts of Saurashtra and Kachchh. Occasional cyclones and depressions also cause heavy rainfall in large parts of Saurashtra, Kachchh, central and northern Gujarat.

The cities of Ahmedabad, Surat and Bharuch are also located on the flat alluvial plains of large rivers and are prone to flooding.

The Figure shows that almost all parts of Gujarat are flood prone, irrespective of the size of the catchment. It has to be noted that the flood prone villages classified by Flood control Cell is based on the settlements affected.

The Flood risks in Saurashtra are lower than the flood risks in the South Gujarat plains. The relatively flat plains in the lower basin areas with hilly catchments in the upper parts of South Gujarat accentuate flood risks.

The flood prone river sections were identified by the flood prone village map. The Flood prone river sections in Saurashtra extend to the upper basins. This is due to the presence of dams in the upper basins, which have to resort to emergency discharge during heavy rainstorms. Flood prone river sections presented in picture



In Saurashtra, the valley areas are the only arable lands due to presence of shallow rock in higher elevations of the basin. Even small valleys are used for agriculture and hence any flooding in these zones impacts the residents and settlements.

Flood Prevention, Preparedness and Mitigation

Floods being the most common natural disaster, people have, out of experience, devised many ways of coping with them. However, encroachments into the flood plains over the years has aggravated the flood problem and a need to take effective and sustained measures has been felt. Various measures, structural and non-structural, have been taken by the central and state governments and as a result, considerable protection has been provided to the people.

However, more efforts are required in this direction and there is a need to put in place a technolegal regime to make structures flood-proof and regulate the activities in the flood plains of the rivers. Flood forecasting and warning and Decision Support System (DSS) will be established on a scientific basis taking into account the latest technological developments in the world.

Action Plan for Lightning and Thunderstorm:

Thunderstorm and Lightning are hazardous and cause risk to life and public property. There are potentially hazardous for aviation sector as well in addition to transport, power, communication and other socio-economic sectors. Lightning being the flow of electric charges, any electrically conductive body can be affected by lightning. Hence the electrical appliances if operated during lightning period can be affected by lightning. Similarly, the living beings coming in contact with lightning directly or indirectly through electrical conductors can be affected, often leading to death.

In India every year more than 2500 people die due to lightning. Mostly Rural and forest areas are vulnerable with tall trees and water bodies. Majority of the lightning victims are the people working on the field in rural area. Lightning is also a major cause of electrical power breakdowns, and forest fires. It can also cause damages to communication and computer equipment, and aircrafts.

Thunderstorm is a small-scale phenomenon and has a life cycle of up to only three hours. It has a dimension of 2 km to 20 km, and therefore, its detection is difficult. Automatic weather stations (AWS) provide some basic parameters such as wind speed, wind direction, relative humidity temperature, pressure etc.

Preparedness and Mitigation Measures

The lessons learnt from various thunderstorm and squall events in India, particular regarding rescue and relief works and the shortcomings experienced in the process should be carefully and honestly. Lack of communication and transportation, undue delays in clearing the roads and or streets blocked due to the falling of trees, electricity poles and hoardings that further delays in the immediate transportation of the injured to the nearby hospital. The hierarchical structure for execution needs to be formalized so that all efforts are properly coordinated. Coordination of all relief distribution is as important as its quantity and timely delivery; otherwise some places may receive it in duplicate and triplicate and some places remain completely starved.

Vulnerability assessment of buildings, structure/infrastructure, lifelines, economy and people should be undertaken:

The occurrence of thunderstorm and or squall is a natural hazard over which man has no control at present. Its prediction with respect to precise time, place or intensity of occurrence is still not feasible. But this natural hazard gets converted into a disaster to the society. Enough experience has been gained worldwide and researches carried out in India which gives us confidence to minimize the damages human casualties and loss of cattle heads due the onslaught of thunderstorm and or squall.

Protection against Lightning — Lightning Shields

Lightning shields are the most commonly employed structural protection measures for buildings and other structures. The lightning shield consists of installation of a lightning conductor at a suitably high location at the top of the structure. The conductor is grounded using a metal strip of suitable conductance. The grounding of the conductor is also specially designed to ensure rapid dissipation of the electrical charge of lightning strike into the ground.

Action Plan for Mass Gathering Events:

Celebrations and festivals in India are part of our cultural and religious diversity. India being the second most populated country in the world with diverse religious heritage has vast number of festivals that are celebrated on grand scale. Many of them are celebrated at national level, regional or state level.

Religious pilgrimage is highly prone to human stampedes as it is comprised of huge crowd including women, elderly people and children. The availability of limited open space, uneven topography and high density of pilgrims together make the festival venues a stampede hotspot. Human stampede at festival gatherings may happen due to the following reasons

Rush and Surge of people: People may try to enter into a special place for better view/participation in the functions which results in jostling, suffocation, failure of confining walls, barriers and gates.

Accidents: Collapse of temporary or permanent structures, accidents on bridges, vehicle accidents Natural or human induced hazards: slope failure, heavy rain, slippery surfaces, fire, intentional acts etc.

Rumors: Spread of rumor about an accident, man-animal conflict, terror attack, stampede or a calamity near to the venue

Long Queue Discomfort: People standing in tightly packed queues for long hours will create discomfort among individuals and they may try to escape from the queues.

Disaster preparedness process for religious mass gatherings should begin with the event planning stage. The event organizer shall take up the design and execution of safety components with the help of safety agencies and services.

Festival Safety - Preparations

Coordinating religious mass gatherings require additional man power, resources, facilities and support from other agencies or experts. Proposed site for mass gatherings need to be assessed for additional facilities based on the expected crowd size and crowd behavior. Event organizers may utilize the service of disaster management experts for effective planning and implementation of preparedness measures.

Risk Assessment

The mass gathering organizer has to submit a risk assessment statement and venue lay out map along with the event proposal form. The venue lay out map should contain services and utilities proposed and arranged at the venue, fire hydrant points, police control room, emergency operation centre, medical facilities, crowd flow pattern, crowd management facilities etc.

Crisis Communication Plan

Crisis Communication plan act as the fundamental coordination mechanism for event organizer and emergency services. The event organizer is responsible to establish a crisis communication system for the venue that should include a system to address the public, and a system for internal communication.

Onsite Response Plan

Identify the agency or department that is responsible for each hazard. Prior permission from the agencies must have taken while specifying the responsibilities of each agency. For effective emergency response, the festival venue may be classified as sectors and sector wise responsibilities may be assigned. Locate fire units and first aid teams at important locations for major events.

Resource Inventory

Include emergency contact details and resources which are required to meet a festival emergency

Action Plan for Drought:

Drought or a distressed situation caused by lack of rainfall is a deadly natural environmental hazard. It is directly related to one of the basic requirements of any form of life (i.e. water, air and food) that is, water and is indirectly related to food because crops and other plants and animals exclusively depend on water. Droughts resulting from accumulative effect of water scarcity cause extensive and enormous damage to agriculture and natural vegetation and therefore cause famine and starvation to human and animal population of the region concerned.

According to India Meteorological Department (I.M.D.), the drought in India is a situation occurring in any area when the mean rainfall of a year is less than 75% of the mean annual rainfall. I.M.D. classified drought in two broad categories:-

Severe Drought: When the deficiency of rainfall exceeds 50% of the normal rainfall.

Moderate Drought: When the deficiency of rainfall is between 25% and 50% of the normal rainfall.

Meteorological Drought: Meteorological drought is a situation when the actual rainfalls do not arrive in time or less than the climatologically expected rainfall over a wide area.

Hydrological Drought: Hydrological Drought is associated with marked depletion of surface water and consequent drying up of lakes, rivers and reservoirs except deep geological aquifers.

Agricultural Drought: Agricultural drought occurs when the soil moisture is inadequate to support a healthy growth of crops to the stage of maturity.

IMPACT OF DROUGHT

Drought is somewhat different from the other major natural disasters. Floods, earthquakes and cyclones start in a comparatively sudden manners, having a relatively short duration and are restricted to local influence.

Drought in contrast starts slowly, having long duration, being of the creeping and pervasive nature, covers vast areas. Floods, cyclones and earthquakes are disasters associated with extreme events, drought is the extreme hydrologic result of the non-occurrence or less than normal mean rainfall of an area. Basically drought is a slow evolution that seldom causes dramatic losses of human life (except in famine) but it effect is long lasting in economic sector for the region and its people.

Drought management in Gujarat

Relief Manual (2016–17) under Gujarat Land Revenues Rules for assessment of crop-losses in terms of scores (1 to 12 scores).

The assessment is carried out for each village by the *Annawari* committee which includes a chairperson: a Circle Inspector and members (village heads, important persons of the villages, farmers' representatives etc.). The committee estimates yields from three plots representing good, medium and poor crop conditions in a village by actual harvest. The estimated *Annawari Report* is published and feedback, objections and grievances from the villagers may be submitted within 15 days. After the objection period is over, the committee submits the report to Sub-divisional Magistrate who sends it to the District Collector to finalize the decision. Whenever there is a serious shortage of drinking water, crop failure, very abnormal rainfall, high inter-spell duration and so on, the state governments immediately shoot off a letter to the central government asking for relief. The Ministry of Agriculture sends a team to assess the problem and sanctions money to the states.

Action Plan for CBRN:

Chemical, Biological, Radiological and Nuclear (**CBRN**) Threats. '**CBRN**' is the abbreviation commonly used to describe the malicious use of Chemical, Biological, Radiological and Nuclear materials or weapons with the intention to cause significant harm or disruption. A CBRN incident differs from a hazardous material incident in both scope and intent.

Chemical

The main types of chemical weapons are:

- Nerve agents, which attack the central nervous system. Examples include types of pesticides called organophosphates; sarin; and VX.
- Blister agents, which cause burns and blisters both inside and outside of the body. Examples include the mustard gases.
- Incapacitating agents, which are designed to hurt a large number of people, and make it impossible for them to fight back, but without killing them. Examples include tear gas and pepper spray.

Biological

The goal of biological weapons is to get as many people sick with infectious diseases as possible. Types of biological weapons include:

- Bacteria, like the bacteria that cause anthrax and plague
- Viruses, like the ones that cause smallpox, Ebola, and the flu
- Toxins (poisons made by living things), like ricin, botulism toxin, and aflatoxin

Radiological

A radiological weapon is any kind of weapon that spreads radiation. For example:

- A dirty bomb (a regular bomb which spreads radioactive material)
- Poisoning food or water supplies with radioactive contamination

Nuclear

A nuclear weapon releases a huge amount of energy in a nuclear explosion. Nuclear weapons can kill everyone in a city, and make many other people who survive sick with radiation poisoning.

Line of Communication and Responsibility for the State

- For metropolitan areas, the Incident Commander for all nuclear hazards shall be the Commissioner of Police. For other areas it will be the District Magistrate (DM). DEOC / District Magistrate/ Commissioner of Police shall inform the State Emergency Operation Center (SEOC), the Commissioner of Relief (COR) and GSDMA.
- The COR or GSDMA shall convene an immediate meeting of the Crisis Management Group under the Chief Secretary.
- COR shall inform National Emergency Operation Center (NEOC) and if required coordinate with Bhabha Atomic Research Center (BARC) for specialized support.
- The Commissioner of Police in a metropolitan area and the District Magistrate in others shall review the situation and activate coordination, command and control.
- Commissioner of Health (COH) shall place medical and para-medical teams if required at the disposal of the Incident Commander.
- The Fire Brigade as well as personnel/vehicles/equipments from GSDMA's Emergency Response Centers (ERCs) will report to the Incident Commander.
- Commissioner of Relief (COR) shall also coordinate immediate evacuation of potentially affected civilians with the CP, Municipal Commissioner and Collector.
- Chemical Biological Nuclear and Radiological team (CBRN) shall be formed and deployed to ground zero by the incident commander.

Action Plan for Epidemics:

District crisis group is a multi-sectoral group and comprises of different government departments, the group is headed by District Collector and senior/ junior factory inspector is a member secretary.

Chief district medical officers {CDMO} and Chief District health officers {CDHO} are members of this group. As per the guidance from the Commissionerate of Health, Medical Services and Medical Education, CDMO and CDHO of each district are to prepare a Contingency Plan for Medical Relief in Disaster so as to meet any adverse event in future limit immediate and delayed consequences of such a Disaster.

Activities to be carried out on strikes of any Disasters in District:

- PHC team will rush to affected village and start curative services as well as preventive and control measure of an outbreak.
- At the site team will carry out house to house surveillance.
- Team will guide and give health education regarding disease, and for prepare dispose of night soil, house hold garbage etc.
- Along with curative and control Measure team will carry out focal spry of insecticide and disinfectant in affected family and surrounding 50 House.
- Team will carry out super dose chlorination of all pre identified sources of potable water in the affected village also distribute chlorine tablet for domestic use.
- Team will prepare program for regular chlorination through Health worker and Panchayat Machinery.
- □ Male Health supervisor made responsible for checking the chlorination He is instructed to maintain register of R.C. test and asked to report regular.
- To maintain sanitary condition, Retail shop of food and food preparation, Fruit shop, Icecream and Cold drink shop must be check up.
- Team will take water sample, food sample, blood, urine, stool as per necessity and if possible carry out laboratory analysis on the spot or will send the sample to Baroda laboratory with special Messenger.
- □ If it is necessary team will carry out vaccine immunization.
- with the help of Panchayat machinery Health Worker / supervisor make it possible to dispose, spoil food.
- □ Medical officer are instructed to take active support of youth forums, Mahila Mandal, Gram Panchayat and other NGO in their jurisdiction.
- □ Male supervisor made responsible for reporting of all activity carried out to the district health officer.
- □ If it is necessary other medical team and logistic will deputed from non-affected area.

Evacuation plan:

On the basis of assessment of the severity of the disaster, the State Relief Commissioner shall issue appropriate instructions on actions to be taken including evacuation to the District Collector, who will then supervise evacuation.

The District Collector will give direction to the Liaison Officers, Dy. Collector and all concerned departments for evacuation based on situation. This will be carried out by the Revenue department, Local police & District Panchayat department.

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.

Types of evacuation:

For the purpose of 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.

Evacuation Team Members are mainly responsible to evacuate and carry out search and rescue operation during the time of emergency. The members of this team are mainly young men and women of the village, ex-service men; swimmers, etc. Rescue kits necessary to carry out the activities of this team would be ideally made locally with indigenous materials available. These members are trained with the help of Civil Defence, Police, Fire services etc.

 \Box In cases where the approach road is clear, people will be evacuated by local tractor/trolley, ST bus & other big vehicles. The people trapped in areas surrounded by water will be rescued by the Mamlatdar, local police & local swimmers through boats.

□ RTO Office will be directed to arrange and supply vehicle for evacuation & rescue operation.

□ Make transport arrangement for mobilization of all emergency response teams.

 \Box Ensure that the arrangement for basic amenities (shown below) at evacuation/relief centres are made by the respective departments:

o Drinking water, o Food, o Sanitation and hygiene, o Lighting, o Health Care

□ Ensure that law and order is maintained at evacuation centers and in the affected areas as well.

 \Box Maintain the records of area-wise population, shelter centers in your area for effective emergency evacuation.

All evacuations will be ordered only by the Collector/Mamlatdar or by the SP or Fire Brigade, after consultation with the District Collector. SP should ensure appropriate security and maintenance of law and order during evacuation process and render all possible assistance to the Village level Task Force members. All voluntary evacuations should be immediately reported to the Collector.

All Primary Schools and Higher Secondary Schools and Community Centers will be utilised for Evacuation. Collector-Junagadh had ordered DEO/DPEO to handover schools to taluka authority for shelter as and when Evaucation took place.

<u>ANNEXURE – 28</u>

Shelter Management Plan:

As per instruction of a District collector or message from SEOC, DDO will do operation of relief and shelter with their staff, group members & their staff and maintain the records of areawise population, shelter centers in your area for effective emergency evacuation.

Based on the warning issued by IMD, pin point the districts and villages likely to be affected by Disasters and start the procedure for identifying safe places/shelters for evacuation in those villages.

Generally public buildings are given first priority for shelter because they are lesser in number and at the time of disaster people can take shelter in these public buildings.

Shelter Management Team takes care of the identified shelter buildings in pre, during and post disaster scenario. Care needs to be taken to stock necessary material such as food, drinking water, medicines, bleaching powder, firewood, lantern, etc. Special care needs to be taken for the animal stock during any disaster. The team needs to ensure hygiene in and around the shelter place. Women are generally active members of the shelter team as they are well acquainted with house management, and are able to manage shelters during emergency. The team leader or any other team member should have the keys of the safe shelters so that prior to the disaster they will clean up the place and make available the necessary materials like food, water, medicines, bleaching powder, firewood, lantern, etc. required for the evacuees during disaster period.

The Industries Officer, Salt Commission Office, President of the Salt Manufacturers Association will evacuate workers from salt factories to safe shelters.

The most important action by the police is to cordon off the site of the accident, divert and regulate traffic, and evacuate/shelter in place citizens in close proximity on a priority basis.

Village wise data of safe sheltering for evacuation available on SDRN should be referred and the dist. Lision officers/Taluka level officers/Village level officers should be contacted to know the status of the shelters with the capacity of the shelter and other available facilities at the site. Arrange to shift evacuated persons to temporary shelters and ensure provision of food, water facilities, blankets and storage of relief materials.

Arrange for complaints regarding missing persons and initiate search in shelters, hospitals and police records. The villagers identify safe areas such as strong houses /buildings, raised platforms etc. These act as a shelter place for the people in the event of an evacuation. It would be useful to identify the alternate approach routes which could be used during the time of an emergency.

Field visit to the affected areas and shelter/ relief camp sites and report preparation and forward to Collector for approval, sanction and onward action. Check the condition of safe shelter during his visits in the district places and if necessary gets it repaired by co-coordinating with the local authorities, available financial resources and voluntary organizations.

Setting up relief camps and tents using innovative methods that can save time. Instruct local authorities to set up important telecom and other service related facilities. Initiate, direct and market procurement of food available from different inventories and ensuring food supplies to the affected population. Prepare take-home food packets for the families. Ensure distribution of relief material to the all the people including vulnerable groups of the target area such as women with infants, pregnant women, children, aged people and handicapped. Ensuring supports from all corners to Local Administration.

Media Management Plan:

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

Timely mass media communication about impending disasters can lead to appropriate individual and community action, which is the key to implementing effective prevention strategies including evacuation and survival of people. Such communications can educate, warn, inform, and empower people to take practical steps to protect themselves from natural hazards.

Junagadh Collectorate office has established an effective system of collaborating with the media 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 Taluka Control room (i.e. Mamlatdar office).

Dy. Director, Information will establish media management / information cell for public information, guidance and runor control and will assure following activities...

1. For Preparedness:

□ Broadcast programs to raise people's awareness of disaster prevention measures

□ Develop news sources in emergency situation

□ Place broadcast equipments, microphone, tape/CD, transmitter, antennae in safety.

2. For Mitigation:

□ Develop networks with DEOC/TEOC, NGOs, local government offices & stakeholders.

3. For Response:

□ Broadcast pre - prepared announcements

□ Broadcast emergency public meetings

- □ Broadcast emergency evacuation announcements
- □ All announcements broadcast in a reassuring and calm manner
- □ Dispel myths and rumours 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 informations

DEOC have tobe ensured that the interaction with media is a two way process through which not only the DEOC provides the information / updates to the media but the media too, through their own sources / resources draws the attention of the DEOC officials to the need and requirement of the affected people.

Disaster Zonation:

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.

Junagadh District's situation indicates that some parts of the District like Sasan and Maliya taluka have been adequately provided with the seismic instrumentation.

Flood:

River flooding is a regular hazard faced by the District. All the major river systems in the District are vulnerable to flooding, as captured in the Vulnerability Atlas. The urban areas like Chorwad, Keshod, Vanthali, Manavadar and Mangrol are facing flooding primarily due to drainage and increased run-off loads in hard surfaces.

Cyclone:

Coastal areas of District like Maliya and Mangrol are particularly prone to Cyclone. Cyclones originate out at sea and become hazardous when they come ashore. They also drive the sea level up to cause coastal flooding.

At a community level, the GSDMA has proposed to provide temporary cyclone shelter. There are 25 identified sites to construct Cyclone Shelter on Costal Belt of Junagadh District. These shelters will be, with built-in safety against high wind velocity and heavy rainfall and within easy reach of the people most affected.

Chemical Disasters:

Junagadh district has no specific chemical zone of factories. However the disaster preparedness as precautionary measures have envisaged by involving all the major Departments who are directly or indirectly responsible for Chemical hazard.

The Junagadh district with 15.25 lacs population covering an area of 5027.60 sq. kilometers and 553 villages consist of 10 talukas and five revenue sub-divisions has got 32 numbers of chemical units. However, none in the Taluka is considering as dangerous.

Tsunami:

Tsunamis are most often generated by earthquake-induced movement of the ocean floor. Landslides, volcanic eruptions, and even meteorites can also generate a tsunami. Areas at greatest risk are less than 25 feet above sea level and within one mile of the shoreline. So far as Junagadh District is concern there are 2 costal talukas and as per Analysis of Mean Sea level of Junagadh District, there are 8 villages of 2 costal taluka are less then 2 km far from sea and on less then 9 meter of height from ocean level.

Relief and Rehabilitation Norms (Standards):

REVISED LIST OF ITEMS AND NORMS OF ASSISTANCE FROM STATE DISASTER RESPONSE FUNDS (SDRF) AND NATIONAL DISASTER RESPONSE FUND (NDRF)

(Period 2015-20, MHA Letter No. 32-7/2014-NDM-I Dated 8th April 2015)

CI No.	Itome	NORMS OF ASSISTANCE
	Lienis	
1		3
<u>].</u>	 a) Ex-Gratia payment to families of deceased persons. 	Rs.4.00 lakh per deceased person including those involved in relief operations or associated in preparedness activities, subject to certification regarding cause of death from appropriate authority.
	 b) Ex-Gratia payment for loss of a limb or eye(s). 	Rs. 59100/- per person, when the disability is between 40% and 60% .
		Rs. 2.00 lakh per person, when the disability is more than 60%. Subject to certification by a doctor from a hospital or dispensary of Government, regarding extent and cause of disability.
	c) Grievous injury requiring hospitalization	Rs. 12,700/- per person requiring hospitalization for more than a week.
		Rs. 4,300/- per person requiring hospitalization for less than a week.
	d) Clothing and utensils/ house-hold goods for families whose houses have been washed away/ fully damaged/severely inundated for more than two days due to a natural calamity.	Rs.1,800/- per family, for loss of clothing. Rs.2,000/- per family, for loss of utensils/ household goods.
	e) Gratuitous relief for families whose livelihood is seriously affected.	Rs. 60/- per adult and Rs. 45/- per child, not housed in relief camps. State Govt. will certify that identified beneficiaries are not housed in relief camps. Further State Government will provide the basis and process for arriving at such beneficiaries district-wise.
		Period for providing gratuitous relief will be as per assessment of the State Executive Committee (SEC) and the Central Team (in case of NDRF). The default period of assistance will upto to 30 days, which may be extended upto 60 days in the first instance, if required, and subsequently upto 90 days in case of drought/ pest attack. Depending on the ground situation, the State Executive Committee can extend the time period beyond the prescribed limit subject to that expenditure on this account should not exceed 25% of SDRF allocation for the year.
(,	SEARCH & RESCUE OPERATIONS (a) Cost of search and rescue measures/ evacuation of people alfected/ likely to	As per actual cost incurred, assessed by SEC and recommended by the Central Team (in case of NDRF).

		 By the time the Central Team visits the affected area, these activities are already over. Therefore, the State Level Committee and the Central Team can recommend actual/ near-actual costs.
	(b) Hiring of boats for carrying immediate relief and saving lives.	As per actual cost incurred, assessed by SEC and recommended by the Central Team (in case of NDRF).
		The quantum of assistance will be limited to the actual expenditure incurred on hiring boats and essential equipment required for rescuing stranded people and thereby saving human lives during a notified natural calamity.
3	RELIEF MEASURES	
	a) Provision for temporary accommodation, food, clothing, medical care, etc. for people affected/ evacuated and sheltered in relief camps.	As per assessment of need by SEC and recommendation of the Central Team (in case of NDRF), for a period up to 30 days. The SEC would need to specify the number of camps, their duration and the number of persons in camps. In case of continuation of a calamity like drought, or widespread devastation caused by earthquake or flood etc., this period may be extended to 60 days, and upto 90 days in cases of severe drought. Depending on the ground situation, the State Executive Committee can extend the time period beyond the prescribed limit subject to that expenditure on this account should not exceed 25% of SDRF allocation for the year. Medical care may be provided from National Rural Health Mission (NRHM).
	b) Air dropping of essential supplies	As per actual, based on assessment of need by SEC and recommendation of the Central Team (in case of NDRF).
		- The quantum of assistance will be limited to actual amount raised in the bills by the Ministry of Defence for airdropping of essential supplies and rescue operations only.
	 c) Provision of emergency supply of drinking water in rural areas and urban areas 	As per actual cost, based on assessment of need by SEC and recommended by the Central Team (in case of NDRF), up to 30 days and may be extended upto 90 days in case of drought. Depending on the ground situation, the State Executive Committee can extend the time perind beyond the prescribed limit subject to that expenditure on this account should not exceed 25% of SDRF allocation for the year.
4.	CLEARANCE OF AFFECTED AREAS	
	a) Clearance of debris in public areas.	As per actual cost within 30 days from the date of start of the work based on assessment of need by SEC for the assistance to be provided under SDRF and as per assessment of the Central team for assistance to be provided under NDRF.
	b) Draining off flood water in affected areas	As per actual cost within 30 days from the date of start of the work based on assessment of need by SEC for the assistance to be provided under SDRF and as per assessment of the Central team(in case of NDRF).
	c) Disposal of dead bodies/ Carcases	As per actuals, based on assessment of need by SEC and

Γ.	1 m (// simple) = = = = = = = = = = = =	recommendation of the Central Team (in case of NDRF).
	CONTOUR TRIDE	
	AGRICULTURE	and the second sec
(i)	Assistance farmers having lananolaing upto 2 ha	
Α.	Assistance for land and other loss	
	a). De-silting of agricultural land (where	Rs. 12,200/- per hectare for each item.
	thickness of sand/ silt deposit is more	
1 .	than 3", to be certified by the competent	(Subject to the condition that no other assistance/ subsidy has
	authority of the State Government.)	been availed of by/ is eligible to the benchiciary under any
	b) Removal of debris on agricultural land	other Government Scheme)
1	in hilly areas	
	c) De-silting/ Restoration/ Repair of fish	
	farms	
	d) Loss of substantial portion of land	Rs. 37.500/- per hectare to only those small and marginal
1	caused by landslide, avalanche, change	farmers whose ownership of the land is regulatiate as per the
1	of course of rivers.	revenue records.
B.	Input subsidy (where crop loss is 33%	
	and above)	and constructed to some
	a) For agriculture crops, horticulture crops	Rs. 6,800/- per ha. In rainted areas and restricted to sown
	and annual plantation crops	areas.
		Rs. 13.500/- per ha, in assured irrigated areas, subject to
		minimum assistance not less than Rs.1000 and restricted to
		sown areas
	b) Demonsiol groups	Rs 18,000/- ha, for all types of perennial crops subject to
	o) Perennial crops	minimum assistance not less than Rs. 2000/- and restricted to
		sown areas.
	c) Sericulture	Rs. 4,800/- per ha. for Eri, Mulberry, Tussar
		Rs. 6,000/- per ha. for Muga.
(ii)	Input subsidy to farmers having more	Rs. 6,800/- per hectare in rainfed areas and restricted to sown
	than 2 Ha of landholding	areas.
		Rs.13,500/- per hectare for areas under assured irrigation and
		restricted to sown areas.
(restricted to source areas
		Test lefel to so wit areas.
		Assistance may be provided where crop loss is 33% and above,
		subject to a ceiling of 2 ha. per farmer.
6	ANIMAL HUSBANDRY -	
	ASSISTANCE TO SMALL AND	
	MARGINAL FARMERS	· · · · · · · · · · · · · · · · · · ·
	i) Replacement of milch animals, draught	Milch animals -
-	animals or animals used for haulage.	Dr. 70 000/ Duffaiol new annull wald Mithun ate
		Rs. 30,000/- Buffalo/ cow/ called yak/ whiteh etc.
		NS. 5,0007 Sheep Com The
		Draught animals -
		Rs. 25000/- Camel/ horse/ bullock, etc.
		Rs. 16,000/- Calf/ Donkey/ Pony/ Mule
		my the second by protototal for the natural for aff
		- The assistance may be restricted for the actual loss of
		economically productive annuals and will be subject to a

	 ii) Provision of fodder / feed concentrate including water supply and medicines in cattle camps. 	 ceiling of 3 large milch animals or 30 small milch animals or 3 large draught animals or 6 small draught animals per household irrespective of whether a household has lost a larger number of animals. (The loss is to be certified by the Competent Authority designated by the State Government). <i>Poultry:-</i> Poultry @ 50/- per bird subject to a ceiling of assistance of Rs 5000/- per beneficiary household. The death of the poultry birds should be on account of a natural calamity. <i>Note:</i> - Relief under these norms is not eligible if the assistance is available from any other Government Scheme, e.g. loss of birds due to Avian Influenza or any other diseases for which the Department of Animal Husbandry has a separate scheme for compensating the poultry owners. Large animals- Rs. 70/- per day. Small animals- Rs. 35/- per day. Period for providing relief will be as per assessment of the State Executive Committee (SEC) and the Central Team (in case of NDRF). The default period for assistance will be upto 30 days, which may be extended upto 60 days in the first instance and in case of severe drought up to 90 days. Depending on the ground situation, the State Executive Committee (SEC) and the prescribed limit, subject to the stipulation that expenditure on this account should not exceed 25% of SDRF allocation for the year. Based on assessment of need by SEC and recommendation of the Central Team, (in case of NDRF) consistent with estimates of cattle as per Livestock Census and subject to the certificate by the competent authority about the requirement of medicine and vaccine being calamity related.
	iii) Transport of fodder to cattle outside cattle camps	As per actual cost of transport, based on assessment of need by SEC and recommendation of the Central Team (in case of NDRF) consistent with estimates of cattle as per Livestock Census.
7	FISHERY	
	i) Assistance to Fisherman for repair /	Rs. 4,100/- for repair of partially damaged boats only
	replacement of boats, nets - damaged or	The state of the s
	1 1	
	lost	Rs. 2,100/- for repair of partially damaged her
	Boat	Rs. 2,100/- for replacement of fully damaged boats
	Boat Dugout-Canoe	Rs. 9,600/- for replacement of fully damaged boats
	Boat Dugout-Canoe Catamaran	Rs. 2,600/- for replacement of fully damaged her Rs. 2,600/- for replacement of fully damaged boats Rs. 2,600/- for replacement of fully damaged nct
	Iost Boat Dugout-Canoe Catamaran net	Rs. 2,600/- for replacement of fully damaged net Rs. 2,600/- for replacement of fully damaged net
	Iost Boat Dugout-Canoe Catamaran net (This assistance will not be provided if the	Rs. 2,600/- for replacement of fully damaged het Rs. 2,600/- for replacement of fully damaged boats Rs. 2,600/- for replacement of fully damaged not
	Iost Boat Dugout-Canoe Catamaran net (This assistance will not be provided if the beneficiary is eligible or has availed of any subsidy/ assistance, for the instant calumity	Rs. 2,600/- for replacement of fully damaged het Rs. 2,600/- for replacement of fully damaged boats Rs. 2,600/- for replacement of fully damaged net
	Iost Boat Dugout-Canoe Catamaran net (This assistance will not be provided if the beneficiary is eligible or has availed of any subsidy/ assistance, for the instant calamity, under any other Government Scheme.)	Rs. 2,600/- for replacement of fully damaged het Rs. 2,600/- for replacement of fully damaged boats Rs. 2,600/- for replacement of fully damaged net

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		(This assistance will not be provided if the beneficiary is eligible or has availed of any subsidy/ assistance, for the instant calamity, under any other Government Scheme, except the one time subsidy provided under the Scheme of Department of Animal; Husbandry, Dairying and Fisheries, Ministry of Agriculture.)
8	HANDICRAFTS/HANDLOOM - ASSISTANCE TO ARTISANS	<u> </u>
	i) For replacement of damaged toois/ equipment	 Rs. 4,100 per artisan for equipments. Subject to certification by the competent authority designated by the Government about damage and its replacement.
	ii) For loss of raw material/ goods in process/ finished goods	 Rs. 4,100 per artisan for raw material. Subject to certification by Competent Authority designated by the State Government about loss and its replacement.
9	HOUSING	
	a) Fully damaged/ destroyed houses	
	i) Pucca house	
	ii) Kutcha House	Rs. 95,100/- per nouse, in plant aleas.
	b) Severely damaged houses	Rs. 1.01.900/- per house, in hilly areas including Integrated
	i) Pucca House	Action Plan (IAP) districts.
h	ii) Kutcha House	
	(c) Partially Damaged Houses -	
	(i) Pucca (other than huts) where the damage is at least 15 %	Rs. 5,200/- per house
	(ii) Kutcha (other than huts) where the damage is at least 15 %	Rs. 3,200/- per house
	d) Damaged / destroyed huts:	Rs. 4,100/- per hut,
		(Hut means temporary, make shift unit, inferior to Kutcha house, made of thatch, mud, plastic sheets etc. traditionally recognized as hut by the State/ District authorities.)
		Note: -The damaged house should be an authorized construction duly certified by the Competent Authority of the State Government.
	e) Cattle shed attached with house	Rs. 2,100/- per shed.

Formats (Reports, Damage and Loss Assessment):

1. Format of Primary Situation Report:

Emergency Operation Center – City/ Taluka / District..... Address.... Phone No..... Fax No. Email Address: -

No. Disa/..../Pri.Rep./2022

Date: - / / 2022

Primary Situation Report of Calamity / Accident

1	Type of Calamity	
2	Name, Address details of a person/s injured/ death in Calamity/ Disaster (If Available)	
3	Place of Calamity (Place/Village/Taluka/District)	
4	Date / Time	
5	Reason of Accident / Calamity	
6	Description of Accident, Calamity, Disaster	
7	Activity / Process done at Village / Taluka / City / District Place	

This is the Primary Situation Report sent to you. Detail Report will be sent to your office later on.

Designation, Office of the....., (District / Taluka / City)

To, Hon. Collector sir, DEOC, Collector office, Junagadh, Ph. - 0285-2633446, Fax. - 0285-2633449

Copy to... Director of Relief, New Sachivalay, Gandhinagar.

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л.	Inspection Team Structure Engineer: Civil Engineer:	Inspection Date & Time:
	Junior Engineer: Officer of Local Competent:	_
	Authority (from engg. section) Photographer:	Area Inspected: Exterior Only Exterior & Interior
B.	Type of Disaster	
	🗌 Earthquake 🔲 Flood 🗌]Fire 🗌 Cyclone 🗌 Blast 🗌 Othe
C.	Location, Type & Occupancy of Building:	
Lo	cation:	Brief Details:
Bu	ilding Name:	Number of stones above ground:
Ad	dress:	below ground:
		Parking Floor: Ground Level
		Approx Footprint area (sam):
Co	ntact: Phone:	No. of residential units;
Su	vey No.:	No. of residential units:
Fin	al Plot No.:	not habitable
Sul	p Plot No.:	_
To	wn Planning Scheme No.:	_
CT.	he collected from Competent Authority)	
(10	be confected from Competent Authority)	
Ty	pe of Construction:	
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(1c	pe of Construction: Timber Construction Masonry Construction	 Reinforced Masonry Kiln burnt bricks
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Tyj Pri	pe of Construction: Timber Construction Masonry Construction Kiln burnt bricks Unburnt bricks Random Rubble Uncoarsed Random Rubble Coarsed Random Rubble Coarsed Hollow Concrete Blocks Steel Structure Other: Other: Mary Occupancy: Gother: Holividual House Holividual House Hotel Government Hotel Semi Government	 Reinforced Masonry Kiln burnt bricks Hollow Concrete Blocks Concrete Frame Concrete Shear Wall Dual System Precast Concrete Construction Composite Structure
(Try) Pri	pe of Construction: Timber Construction Masonry Construction Kiln burnt bricks Unburnt bricks Random Rubble Uncoarsed Random Rubble Coarsed Hollow Concrete Blocks Steel Structure Other: Mary Occupancy: Gother: Mary Occupancy: Individual House Government Government Hotel Emergency Services Cinema House	 Reinforced Masonry Kiln burnt bricks Hollow Concrete Blocks Concrete Frame Concrete Shear Wall Dual System Precast Concrete Construction Composite Structure

D. Assessment:

Investigate the building for the conditions given below and check the appropriate column.

Observed Conditions	None	Minor	Moderate	Severe
• Collapse, partial collapse, or subsidence or uneven settlement of foundations				
Building or story leaning				
Structural Damage to Bearing Walls				
• Structural Damage to Frame Structure				
Columns				
Beams				
Column-Beam Junction				
Stairs				
Walls				
Other:				
 Parapet Wall, Architectural Elements, other Falling Hazard 				
 Subsidence of ground, cracking ground slope movement 				
Internal Services				
Water supply				
Drainage				
Electricity				
Lift				
Fire Fighting				
Site Hazards				
Gas				
Electricity				
Water Supply				
Drainage				
Storm Water				
Toxic Chemicals				
Other				
Sketches:	Photographers:			

SOPs (Standard Operating Procedures):

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. Through Standard Operating Procedures (SOPs) of Line Departments detailing how specific disaster response actions will be accomplished.

Each Department and Govt. agency involved in Disaster Mgmt 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 organisation.
- Emphasis on communication systems used regularly during L-0 with more focus on the use of VHFs with automatic repeaters, mobile phones with publicised numbers, HF 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.

SOPs (Standard Operating Procedures) of Line Departments:

1. 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 pendemic to pest, drought, flood & hazards).
- Develop database village-wise, crop-wise, irrigation source wise, insurance details, credit etc.
- Regular monitoring at taluka 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:

- Management of control activities following crop damage, pest infestation and crop disease to minimise losses.
- Collection, laboratory testing and analysis of viruses to ensure their control and eradication.
- Pre-positioning of seeds and other agro inputs in strategic points so that stocks are readily available to replace damage caused by natural calamities.
- 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.
- Establishment of public information centres 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

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

2. Health Department

2.1. Disaster Events

- Prevention Activities:
- Assess preparedness levels at State, District and Taluka 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 feed back 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 hospitals.
- 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 pilling 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, anaesthesia, 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 sites.
- 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 counselling.
- Treatment and socio-medical rehabilitation of injured or disabled persons.
- Immunisation 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.

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

- Preparedness activities before disaster seasons
- Stock piling of water, fodder and animal feed.
- Pre-arrangements for tie-up with fodder supply units.
- Stock-piling of surgical packets.
- Construction of mounds for safe shelter of animals.
- Identification of various water sources to be used by animals in case of prolonged hot and dry spells.
- Training of volunteers & creation of local units for carcass disposal.
- Municipalities / Gram Panchayats to be given responsibility for removing animals likely to become health hazards.
- Response Activities:
- Control of animal diseases, treatment of injured animals, Protection of lost cattle.
- Supply of medicines and fodder to affected areas.
- Ensure adequate availability of personnel and mobile team.
- Disposal of carcasses ensuring proper sanitation to avoid outbreak of epidemics.
- Establishment of public information centre with a means of communication, to assist in providing an organised source of information.
- Mobilising community participation for carcass disposal.
- Recovery Activities:
- Assess losses of animal's 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.

3. 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.
- 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.
- Raising 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 & other temporary means of distribute water on emergency base.
- 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.

• Recovery Activities:

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

4. 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 modernising 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.
- 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.
- 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.

5. Civil Defence

• Prevention Activities

- Organise training programmes on first-aid, search, rescue and evacuation.
- Preparation & implementate first aid, search and rescue service plans for major public events.
- 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.

6. Fire Services:

• Prevention Activities:

- Develop relevant legislations and regulations to enhance adoption of fire safety measures.
- Modernisation of fire-fighting equipments and strengthening infrastructure.
- Identify pockets, industry, etc. which highly susceptible to fire accidents or areas, events which might lead to fires, building collapse, etc. educate people to adopt safety measures.
- Building awareness in use of various fire protection and preventive systems.
- Conduct training and drills to ensure higher level of prevention and preparedness.
- 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 minimising 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.

7. Civil Supplies:

• Preventive Activities

- Construction and maintenance of storage godowns 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, unutilised 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.

8. 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 mobilise 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.
- Mobilisation 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.

9. Energy:

• 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, modernise 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 during emergencies to ensure uninterrupted power supply to 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.

10. GWSSB - Water Supply Department:

- Prevention Activities:
- 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.

• Response Activities:

- 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 mobilisation in breach closure
- Recovery Activities:
- Strengthening of infrastructure and human resources.
- Review and documentation.
- Sharing of experiences and lessons learnt.
- Training of staff.
- Development of checklists and contingency plans.

11. 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 mobilising boats during emergencies and for payment of wages to boatmen hired during emergencies.
- Support in mobilisation 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.

12. 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.

13. 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. Counselling.
- 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 organisations.
- Provide training so that the elected representatives can act as effectives supportive agencies for reconstruction and recovery activities.

14. Panchayati Raj

- 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.
- Organise 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 prioritise 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.
- Operationalise emergency relief centres 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 minimise 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 minimise 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 L1.
- 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.

15. 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 L1 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.

16. Revenue Department

- Co-ordination with Govt. of Gujarat Secretariat and Officers of Govt. of India
- Overall control & supervision
- Damage assessment, finalisation of reports and declaration of L1/L2 disasters
- Mobilisation of finance

17. Home Department

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

18. Gujarat Disaster Rapid Action Force

• Response

- To be trained and equipped as an elite force within the Police Department and have the capacity to immediately respond to any emergency.
- Unit to be equipped with life saving, search & 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.
- Co-opt doctors into the team.

Projects for prevention of disasters:

1. DRM (Disaster Risk Management) Programme:

DRM (Disaster Risk Management Programme) is one of the major initiatives of Gujarat State Disaster Management Authority to build/strengthen capacity of various stakeholders for an effective response during disasters. The DRM Programme is formulated with a goal of sustainable reduction in disaster risk in most hazard prone districts in Gujarat state.

2. NCRMP (National Cyclone Risk Management Program):

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. Two important components i.e. construction of Multi Purpose Cyclone Shelters (MPCS) and construction and repair of missing roads will be implemented as part of NCRMP.

3. School Safety Programme:

Gujarat School Safety Initiative (GSSI), is the pilot program designed for promoting a culture of disaster safety in schools and reduce risk through structural and non-structural measures in the schools. GSDMA develops Information, Education and Communication material for the purpose of dissemination of information among school students and teaching. Gujarat State Disaster Management Authority has successfully celebrated Gujarat School Safety Week 2023 in all the Government Primary Schools. As a preparatory activity for School Safety Week 2017, 257 master trainers were trained at state level. 53,206 principals and teachers of all government primary schools were trained for preparation of School Disaster Management Plan of their respective schools and for conducting mock drills in schools.

4. Special Flood Rescue Training Programme:

GSDMA has tied up with a local agency and initiated Special Flood Rescue Training Programme to train volunteers and other stakeholders in flood rescue. The stakeholders include firemen, fire officers, home guards, police, etc.

5. Masons Training / Certification Programme:

GSDMA is reinitiating Mason Training/Certification Programme for masons in Gujarat State so that the quality of construction in rural and semi-urban areas could be improved. In this regard GSDMA has signed an MoU with L&T for masons training program. The course is basically designed to improve and impart training in confined masonry construction including earthquake resistant construction in rural areas. The main construction sector targeted is housing schemes running under state and central government.

6. Apda Mitraa:

As part of capacity building measures, GSDMA is now initiating a project - 'Aapda Mitra' on training of community volunteers in conducting basic search & rescue operations and to assist the district administration for effective disaster response. For successful implementation of this program it is planned that 300 Aapda Mitra would be trained from District and Taluka. The fully residential training would be conducted at the 11 designated training centres of SDRF/SRPF. The duration of the training would be of 2 weeks. At the end of the training, they would be certified as 'Aapda Mitra' by GSDMA and also provided with an identity card for the same. The 'Aapda Mitra' shall remain present for assistance during any emergency.
ANNEXURE - 27

Indicators:

(A) Important Websites:

Web Link	In Concern to		
http://sdrn.gsdma.org/Login.aspx	State Disaster Resource Network.		
https://idrn.nidm.gov.in/	India Disaster Resource Network		
https://mausam.imd.gov.in/imd_latest/contents/satellite.php	Satellite Image.		
http://www.imdahm.gov.in/	State Weather Forecast.		
https://isr.gujarat.gov.in/latest-earthquakes-reports	Earthquakes in Gujarat.		
https://incois.gov.in/tsunami/eqevents.jsp	Tsunami Warning.		
http://www.gsdma.org/	Gujarat State Disaster Management		
https://gidm.gujarat.gov.in/	Authority.		
https://junagadh.gujarat.gov.in/	Collectorate Junagadh.		
https://junagadhdp.gujarat.gov.in/gu/home	District Panchayat Junagadh.		
https://spjunagadh.gujarat.gov.in/spjunagadh/default.aspx	Police Department Junagadh.		
https://junagadhmunicipal.org/	Municipal Corporation Junagadh.		

(B) Acronyms:

EOC - Emergency Operation Centre, DEOC - District EOC, TEOC - Taluka EOC.

SDRN - State Disaster Resource Network, IDRN - India Disaster Resource Network.

GSDMA - Gujarat State Disaster Management Authority.

GIDM - Gujarat Institure of Disaster Management.

DRM - Disaster Risk Management, NCRMP - National Cyclone Risk Management Program

DMC - Disaster Management Committee, DMT - Disaster Management Team.

TDMP – Taluka Disaster Management Plan, CDMP – City Disaster Management Plan.

DDMP - District Disaster Management Plan.

ICS - Incident Command System, IC - Incident Commander.

IEC - Information, Education and Communication.

GSWAN - Gujarat State Wide Area Network.

PRI - Panchayati Raj Institute, ULB - Urban Local Bodies.

CHC – Community Health Centre, PHC – Primary Health Centre.

(C) Sources of Information:

1. Departmental Disaster Management Plan of District level Agencies.

2. Flood Memorandum of Irrigation Branch, Junagadh.

3. Statistical outline of District Statistics Department, District Panchayat, Junagadh.

4. Incident Command System Training Materials.

5. NDMA Model District Disaster Management Plan Tamplate

6. State / India Disaster Resource Network Inventory.

7. Weather Station, Agriculture University, Junagadh.

8. Various Emergency Operation Files of Collector Office, Junagadh.

9. District Inspector of land records (DILR) and BISAG.

10. Off Site Emergency Plan of Industrial Safety and Health Department.

11. Village / City / Taluka Disaster Management Plans.

12. The Gujarat State Disaster Management Act, 2003.

13. India Disaster Management Act, 2005



Directory



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C	Distant of Name	Code		Collector	r	D	DO		SP	RAC	DEOC
Sr.	District Name	No.	Office	Fax	Mobile	Office	Mobile	Office	Mobile	Mobile	Office
1	Ahmedabad	079	27551681	27552144	9978406201	25506487	9978406226	26890440	9978406062	9978405173	27560511
2	Amreli	02792	222307	222710	9978406202	222313	9978406227	222333	9978405063	9978405203	230735
3	Anand	02692	262271	261575	9978406203	241110	9978406228	260027	9978405064	9978405175	243222
4	Banaskantha	02742	257171	252063	9978406204	254060	9978406229	257015	9978405065	9978405176	250627
5	Bharuch	02642	240600	240602	9978406205	240603	9978406230	223633	9978405066	9978405177	242300
6	Bhavnagar	0278	2428822	2427941	9978406206	2426810	9978406231	2520050	9978405067	9978405178	2521554
7	Botad	02849	231301	231302	9978405931	2426810	9978406231	231407	9712415910	9727758035	271340
8	Dahod	02673	239001	239005	9978406207	239066	9978406232	222300	9978405068	9978405179	239277
9	Dang	02631	220201	220294	9978406208	220254	9978406233	220248	9978405021	9978405180	220347
10	Gandhinagar	079	23259030	23259040	9978406209	23222618	9978406234	23210901	9978405070	9978405181	23256639
11	Jamnagar	0288	2555869	2555899	9978406210	2553901	9978406235	2554203	9978405071	9978405210	2553404
12	Devbhumi Dwarka	02833	223804	232102	9978405933	2553901	9978406235	232002	9978405976	9727763794	232804
13	Junagadh	0285	2636100	2635599	9978406211	2635315	9978406236	2635633	9978405250	9978405211	2633446/47/48
14	Geer Somnath	02876	240001	243300	9978405934	2651001	9978406236	222250	9978405974	9727756448	240063
15	Kheda	0268	2553334	2553358	9978406212	2557262	9978406237	2550150	9978405072	9978405597	2553356
16	Kutch	02832	220020	250430	9978406213	250080	9978406238	250444	9978405073	9978405212	252347
17	Mehsana	02762	222200	222202	9978406214	222301	9978406239	222122	9978405074	9978405213	222220
18	Narmada	02640	222161	222171	9978406216	222086	9978406241	222315	9979405076	9978405188	224001
19	Navsari	02637	244999	281540	9978406215	244299	9978406240	245333	9978405075	9978405187	259401
20	Panchmahal	02672	242800	242899	9978406217	253377	9978406242	242200	9978405077	9978405189	242536
21	Mahisagar	02674	250666	250655	9978405936	253377	9978406242	250815	7874376004	9727354151	250666
22	Patan	02766	233301	233055	9978406218	232936	9978406243	230104	9978405078	9978405190	224830
23	Porbandar	0286	2221800	2222527	9978406219	2243804	9978406244	2211222	9978405079	9978405191	2220800
24	Rajkot	0281	2473900	2453621	9978406220	2477008	9978406245	2433444	9978405082	9978405218	2471573
25	Morbi	02822	241701	241602	9978405932	247708	9978406245	243471	9978405975	9727759674	2427592
26	Sabarkantha	02772	241001	241611	9978406221	242350	9978406246	247333	9978405081	9978405219	249039
27	Arvalii	02772	247800	247801	9978405935	242350	9978406246	247333	9879910101	9879044388	247810
28	Surat	0261	2652525	2655757	9978406222	2422160	9978406247	2651831	9978405082	9978405220	2465112
29	Surendranagar	02752	2820200	283862	9978406223	283752	9978406248	282100	9978405083	9978405224	283400
30	Тарі	02626	224460	221281	9978405364	222141	9978405263	220400	9978405488	9978405415	223332
31	Vadodara	0265	2423100	2431093	9978406224	2432027	9978406249	2412255	9978406094	9978405196	2427592
32	Chota Udaipur	02669	233003	233002	9978405937	2432027	9978406249	233077	9978405977	9824048430	233022
33	Valsad	02632	253613	243417	9978406225	253184	9978406250	254222	9978405085	9978405253	243238

1. Gujarat State's District Level Emergency Contact Nos.

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3. District Level Officers Telephone Nos. STD Code - (0285)

Sr. No.	Designation	Name	Office	Resi	Mobile	Fax	Email ID
1	2	3	4	5	6	7	8
1	Collector	Shri Anilkumar R. Ranavasiya	2630100	2650203	99784 06211	2635599	collector- jun@gujarat.gov.in
2	SP	Shri Harshad Maheta	2635633	2655644	99784 05250	2634501	sp- jun@gujarat.gov.in
3	Municiipal Commi.	Shri Om Prakash	2650450	2652988	99784 00501	2651510	municipalcorporati onjund@ yahoo.co.in
4	D D O	Shri Nitin Sangwan	2635315	2651202	99784 06236	2636317	ddo- jun@gujarat.gov.in
5	Resi. Addl. Collector	Shri N.F.Chaudhari	2636666	-	99784 05211	2635599	add-collector-jun@ gujarat.gov.in
6	DRDA	Shri P.A.Jadeja	2633179	2670690	94081 46800	2636080	drda.jun1@gmail.c om
7	Dy. DDO (Revenue)	Shri Meeraben Sompura	2636032	-	70166 25440	2633021	ddo- jun@gujarat.gov.in
8	DSO	Shri Fatema Makada	2631480	-	87801 70722	2635782	dso- jun@gujarat.gov.in
9	CDHO	Dr.M.R. Sutariya	2633074	2657679	75678 85777	2633131	cdho.health.junaga dh @gmail.com
10	DEO	Shri J.Z.Kyada	2630151	-	99099 70207	-	junagadhdeo@gma il.com
11	DPEO	Shri Lataben Upadhyay	2634136	2631509	99099 71679	2632136	dpeojunagadh@gm ail.com
12	Dy. Muni. Commi.	Shri Ajay Zapda	2650450	-	81286 56100 90998 77477	2650450	municipalcorporati onjund@ yahoo.co.in
13	Gen.Mana.DIC	Shri D.M. Joshi	2630625 2631325	-	63571 50197	2634671	gm-dic- jun@gujarat.gov.in
14	Dy. Director (Info.)	Shri N.M. Mehta (i/c)	2627281	2675366	98252 63775	2651359	cdmo- jun@gujarat.gov.in

District Administration

15	Fire Superintendent	Shri Dipak Jani	2620841	2654101	96247 53333	2651510	municipalcorporati onjund@yahoo.co. in
16	Control Room Mam. Disa.	Shri P.B.kargathiya	2633446 2633448	-	99133 91128	2633449	dismgmt- jun@gujarat.gov.in
17	DPO Disa, Mgmt.	Shri Kratu S.Trivedi	2633447	-	94269 69236	2633449	kratustrivedi@gma il.com
18	Control Room Dy.Mam. Disa.	Shri Parth J.Chovatiya	2633446	-	97272 10856	2633449	disasterjnd@gmail. com

Taluka Name	Designation	Officer Name (Shri)	Code	(0)	Mobile	Police Station	Email ID
Bhesan	Prant Officer	Shri K.A. Rathod	02873	221031	99784 05183	253433	prantvsr@gmail.com
	Mamlatdar	Shri Parghi		253426	75670 03129		mam- bhesan@gujarat.gov.in
	TDO	Shri A.M.Solanki]	253422 253902	9537023116		tdo- bhesan@gujarat.gov.in
Junagadh City	Prant Officer	Shri Charansinh Gohil	0285	2632068	99784 05346	2655553	po-jun@gujarat.gov.in
	Mamlatdar	Shri K.A. Trivedi]	2634595 2635595	9898018455		mam- juncity@gujarat.gov.in
	TDO	Shri R.V. Thakor		2627233	94283 71244		tdo- junagadh@gujarat.gov .in
Junagadh Rural	Prant Officer	Shri Charansinh Gohil	0285	2632068	99784 05346	2655533	po-jun@gujarat.gov.in
	Mamlatdar	Shri L.B.Dabhi		2627453	75670 83152 97278 78306		mam-junagadh@ gujarat. gov.in
	TDO	Shri R.V. Thakor		2627233	94283 71244		tdo- junagadh@gujarat.gov .in
Keshod	Prant Officer	Shri K.B. Garsar	02871	234018	99784 05345	236093	sdm-kesh- jun@gujarat.gov.in
	Mamlatdar	Shri Sandeep Maheta	1	236043	75670 03169		mam- keshod@gujarat.gov.in
	TDO	Shri Parth Gadhvi		235742	9558580914		tdo- keshod@gujarat.gov.in

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	Chief Officer	Shri V.R.Dadhaniya		236018	75677 70274 8238036902		municipality_ksd@ yahoo.com
Maliya	Prant Officer	Shri Hiral Bhalala	02870	241001 242001	75670 09710 88493 12991	222254	po.mendarda@gmail.c om
	Mamlatdar	Shri Jigar Patel		222232	75670 03078 94262 60353		mam- maliya@gujarat.gov.in
	TDO	Shri M.J.Pavara		222220	7990910826		tdo- maliya@gujarat.gov.in
	Chief Officer Chorvad	Shri V.S.Chavda		288647	9726785181		np_chorwad@yahoo.c o.in
Manavadar	Prant Officer	Shri Kanaksinh Gohil	02874	221440	99784 05345	221026	prant.vanthali123@ gmail.com
	Mamlatdar	Shri K.J. maru		221440	75670 03135		mam- manavadar@gujarat. gov.in
	TDO	Shri B.P.Nandaniya		221238	70166 25440		tdo- manavadar@gujarat. gov.in
	Chief Officer Batava	Shri M.R.Khichdiya		241535	75677 70285 9909296439		bantwa_np@yahoo.co m
	Chief Officer Manavadar	Shri M.R.Khichadiya		221260	99094 63555		np_manavadar@ yahoo.co.in
Mangrol	Prant Officer	Shri K.B. Garsar	02878	234018	99784 05345	222033	sdm- keshod@gujarat.gov.in
	Mamlatdar	Shri J.V. Dodiya		222009	75670 03098		mam- mangrol@gujarat. gov.in
	TDO	Shri R.V.Odedara		222014	75670 19021 9979363034		tdo- mangrol@gujarat.gov.i n
	Chief Officer	Shri V.R.Dadhaniya		223077	75677 70275 8238036902		np_mangrol@yahoo.c o.in
Mendarda	Prant Officer	Shri Hiral Bhalala	02872	241001	88493 12991	241369	po.mendarda@gmail.c om
	Mamlatdar	Shri Kishan Chandaliya		241329	98248 48818		mam- mendarada@gujarat. gov.in

	TDO	Shri R.V.Odedara		241337	75670 13504 9979363034		tdo- mendarada@gujarat. gov.in
Vanthali	Prant Officer	Shri Kanaksinh Gohil	02872	223112	99784 05345	222055	<u>prant.vanthali123@gm</u> <u>ail</u> . com
	Mamlatdar	Shri D.J. Jadeja		222046	75670 03383 94271 64969		mam- vanthali@gujarat.gov.i n
	TDO	Shri H.R. Vaghela		222044	75670 56920 9099310931		tdo- vanthali@gujarat.gov.i n
	Chief Officer	Shri P.A.Viramgama		222039	75677 70275 8980537915		np_vanthali@yahoo.co .in
Visavadar	Prant Officer	Shri K.A. Rathod	02873	221031	99784 05183	222061	prantvsr@gmail.com
	Mamlatdar	Shri N.B.Langhnoja		222056	75670 03232		mam- visavadar@gujarat.gov .in
	TDO	Shri Bharti Joshi		222057	63531 12165		tdo- visavadar@gujarat.gov .in
	Chief Officer	Shri R.N. Karamta		222037	98797 70866		np_visavadar@yahoo. co.in

4. List of Taluka Level Important Phone Numbers.

S	Taluka	STD	Mama	latdar	TI	00	Police	Station
S r.	I aluka	Code No.	Office	Fax	Office	Fax	Office	Fax
1	Junagadh	0285	2627453	2651332	2627233	2651131	2655533	2655770
2	Junagadh City	0285	2621596	2621597	2627233	2651131	2653322	2657719
3	Bhesan	02873	253426	253455	253422	253902	253433	253433
4	Mendarda	02872	241329	242129	241337	241097	241369	241369
5	Vanthali	02872	222046	222415	222044	221238	222055	222055
6	Manavadar	02874	221440	223240	221238	221440	221026	221770
7	Visavadar	02873	222056	221917	222057	222057	222061	222061
8	Keshod	02871	236043	232773	235742	235742	236093	236093
9	Mangrol	02878	222009	222399	222014	224345	222033	222033
10	Maliya	02870	222232	222230	222220	222702	222254	222254

Sr.	Liaison	Lisison Officerla Designation	Contact I	Details	
No.	Taluka	Liaison Officer's Designation	Phone	Fax	Mobile
1	Junagadh (City-Rural)	SDM-Junagadh (STD-0285)	2631068	2632068	9978405346
2	Keshod	SDM-Keshod (STD-02871)	234018	235751	9978405345
3	Visavadar	SDM- Visavadar (STD-02873)	221031	221031	9978405183
4	Vanthali	SDM-Vanthali (STD-02872)	223112	223111	9811706822
5	Mendarda	SDM – Mendarda (STD-02872)	241001	242001	7567009710
6	Bhesan	Deputy Director of (V.JA) (STD-0285)	2630527	-	
7	Manavadar	Deputy DDO -(Rev) (STD-0285)	2631091	-	
8	Mangrol	Deputy DDO - Panchayat (STD- 0285)	2633384	-	
9	Maliya Hatina	District Agriculture Officer- (STD-0285)	2633046	-	

5 Detail & Contacts of Liaison Officers

6. Municipal Corporation- Junagadh Officers's Contacts.

Municipal Corporation- Junagadh Officers's Contacts.

Sr.	Officer's Name	Designation	Office Ph.	Mobile No.
1	Dr. Om Praksh (IAS)	Commissioner	2650450	9978400501
2	Shri. A. S. Zampda (GAS)	Dy. Commissioner	_	9099877477
3	Shri Nileshbhai Parmar	Chief Auditor	—	9825580955
4	Mr.D. G. Rathod (IC)	City Engineer	2622311	9426041041
5	Mr. K. G. Toliya	Secretary	2650452	81286 46099
6	Mr. B. H. Gamit	Sr. Town Planning Officer	_	9825122466
7	Mr. A. P. Chavada	Water Works Engineer	_	94260 27921
8	Dr. Chandresh Viyas	Medical Officer of Health	_	7567884999
9	Mr. J. P. Vaja	Asst. Commissioner (Adm.)	2622011	81286 56100
10	Mr. K. G. Toliya (ic)	Asst. Commissioner (Tax)	2622089	81286 46099
11	Mr. A. P. Chavada(ic)	Transport Officer	2629131	94262 87803
12	Mr. Suresh Khavdu	Establishment Officer	_	9925535907
13	Mr. Jignesh Parmar	Office Superintendent	_	9824948949
14	Mr. Haja Chudasma	Electric Engineer	2624452	9427733486
15	Mr. Viral K. Joshi	House Tax Supri.	2626620	9428953422
16	Miss Nituben Vyas	P. R. O.	2626801	9726931763
17	Mr. Manoj Rupapara	Revenue, Tax Supervisor	2626620	9913043300
18	Mr. R. S. Dangar	Sanitation Superintendent	_	99254 36214
19	Mr. Rajesh Mehata	Store Keeper	_	9725011701
20	Mr. B.S. Dodiya	Chief Surveyer		7862857001
21		Dy. Ex. Engineer	2622011	

22		Dy.Ex. Engineer	_	
23	Mr.	Dy. Ex. Engineer	2622011	
24	Mr. Dipak Dolashiya	Birth-Death Branch	—	97237 14511
25	Mr. H.K. Sondarva	Estate officer	—	8000108305
26	Mr. Vinash Patdiya	Labor Officer	—	94081149664
27	Mr. Viral Joshi	Shop Inspector	2650450	94289 53422
28	Mr. Hiteshbhai P. Kariya	Legal Officer	2622011	9998359060
20	Mrs. Shobhna Rupapra	Prin., Narsinh Vidya Mandir	2620388	94286 26057
30	Mr. Tripalsinh Rayzada	Timbavadi Zonal Officer	2674250	9427243143
31	Mr. Keyur Bathani	Dolatpara Zonal Officer	2660007	9898829079
32	Miss Nituben Vyas	Joshipara Zonal Officer	2612316	9726931763
33	Mrs.Nidheeben Mer	Accountas Officer	2622089	9376273806
34	Mr. Mehul P. Balas	E.D.P. Manager	—	72289 38100
35	Mr. Hayatkhan Ghori	Drainage Supervisor	—	8511171559
36	Mr. Dipak Jani	Chief Fire Officer	2620841	9624753333
37	Mr.	Food Inspector	—	
38	Mr. Rajesh Parmar	Garden Supervisor	_	9067122224
39	Mr. Rajesh Trivedi	Environmental Engineering	_	94289 53499
40	Mr. Vipulbhai D. Morjariya	PA to Commissioner	_	94272 18004
42	Mr. Chetan D. Bhatt	PA to Deputy Commissioner	—	96625 43543
41	Mr. Vinash Patdiya	Election branch	_	94081149664
42	Mr. Chatan Tank	PA to Mayor	2650452	94266 66360
43	Mrs. Nishaben Dhadhal	Dy. Adhikshak, Vruddhashram	2626328	7228802029
44	Mrs. Nishaben Dhadhal	Project Officer, U.C.D		7228802029
45	Mr.	Admin. and Account (UHS)		

7. Junagadh Police Contact Directory

C.	Designation	STD	Phone N	umber	Fax
Sr.	Designation	Code	Office	Home	Number
1	S.P.Junagadh	0285	2635633	2655644	2634501
2	Dy.S.P.HQ Junagadh	0285	2634401		2634501
3	Dysp. Junagadh	0285	2651135	2650601	2651135
4	Dy.S.P. Keshod	02871	236684	236321	236684
5	I/C Dy.S.P. Mangrol	02878	222134	222094	222134
6	Dy.S.P. Sc/St cell Jnd	0285	2629606		2650501
7	P.I. LIB	0285	2654601	-	2634501
8	I/C P.I. LCB	0285	2623850	-	2634501
9	P.I. A Divi Junagadh	0285	2655778 2655533	2655534	2655533
10	P.I. B Divi Junagadh	0285	2653322 2657719	2626004	2657719
11	I/C P.I.Visavadar	02873	222061	222498	222061
12	P.I.Keshod	02871	236093	233651	236093

10	D 7 777	000	a (a (1))		
13	P.I.Women	0285	2654199	2624465	-
14	I/C C.P.I. Mangrol	02878	223594	225146	222033
15	C.P.I. Manavadar	02874	221726	223755	221770
16	I/C C.P.I. Junagadh	0285	2654566	2657946	
17	PSI C Divi Junagadh	0285	2673544		2673544
18	PSI Junagadh Rural	0285	2655770	2636568	2655770
19	PSI Bhesan	2873	253433	253161	253433
20	PSI Bilkha	0285	2683133	2683833	2683133
21	PSI Mendarda	02872	241369	242660	241369
22	PSI Vanthli	02872	222055	222279	222055
23	PSI Manavadar	02874	221770	223226	221770
24	PSI Bantva	02874	241522	240244	241522
25	PSI sheel	02878	281335	281900	281335
26	PSI Mangrol	02878	222033	225144	222033
27	PI Mangrol Marin	02878	222033		222033
28	PSI Chorwad	02870	288505	288499	288505
29	I/C PSI Maliya	02870	222254	222388	222254
30	PI City Traff Branch Jnd	0285	2655880	-	2634501
31	PSI SP to Reder Branch	0285	2630603	-	2634501
32	I/C PI SOG Junagadh	0285	2623601	-	2634501
33	PSI MOB Jnd SP Office	0285	2634721		2634501
34	PSI BHAVNATH	0285	2653277	-	2653277

Sr.	Name of Volunteer	Contact No	Taluka	Village	Agency
1	Vaghela Sureshbhai Hamirbhai	9601907033	Bhesan	Bhesan	GRD
2	Solanki Salimbhai Husenbhai	9726115916	Bhesan	Mendpara	GRD
3	Panna Harji Savjibhai	8140547610	Bhesan	Bhesan	Homeguard
4	Bhatt Dixitbhai Hariprasad	9428573816	Junagadh	Junagadh	Homeguard
5	Vijay Karshanbhai Bhuva	9427385327	Junagadh	Joshipura	Homeguard
6	Dabhi Kartikbhai Govindbhai	7405334630	Junagadh	Khamdhrol	Homeguard
7	Chauhan Jayesh Mansukhbhai	9725952984	Junagadh	Katharota	GRD
8	Sapariya Mahendra Mohanbhai	7600502666	Junagadh	Bagadu	GRD
9	Landha Aaman Pirmamadbhai	9726077402	Junagadh	Khadiya	GRD
10	Sapariya Govindbhai Madhabhai	9925424896	Junagadh	Bagadu	GRD
11	Makavana Nanjibhai Hamirbhai	9624933059	Junagadh	Khadiya	GRD
12	Bagada Chirag Laxmanbhai	8264151495	Junagadh (Rural)	Anandpur	GRD
13	Gita Vikrambhai Jogal	7016427446	Junagadh (Rural)	Khadiya	NSS
14	Kambaliya Riddhi Hardasbhai	9913955146	Junagadh (Rural)	Khadiya	NSS
15	Ritu Maheshbhai Visharoliya	9879877442	Junagadh (Rural)	Palasava	NSS
16	Jivandas Devidasbhai Hariyani	7567283180	Junagadh City	Junagadh	GRD
17	Dabhi Satish Kadavabhai	8347535580	Junagadh City	Junagadh	Home guard
18	Raninga Manishbhai Jitendrabhai	9712317102	Junagadh City	Junagadh	Home guard
19	Daxa Chanabhai Bela	9726506181	Junagadh City	Junagadh	NSS
20	Ramjibhai Karshanbhai Ajakiya	9925872751	Keshod	Balagam	GRD
21	Joshi Sudhir Balkrishnabhai	8000411171	Keshod	Keshod	Fireman
22	Narendra Vallabhbhai Kalaniya	9624342779	Keshod	Keshod	GRD
23	MukeshVashrambhai Vaghela	9725030064	Keshod	Keshod	GRD
24	Chandvaniya Sanjay Rasikbhai	9924351901	Keshod	Keshod	Home guard
25	Gohil Viren Kalubhai	9998258782	Keshod	Keshod	Home guard
26	Khaniya Vasantkumar Shantilal	9924126214	Keshod	Kevadra	GRD
27	Pravinpari Prempari Gauswami	9725092163	Keshod	Nonjanvav	GRD
28	Ashvin Bhurabhai Chudasama	7359900997	Keshod	Nonjanvav	GRD
29	Vadhiya Ranjit Abhubhai	9909581121	Keshod	Rangpur	Fireman
30	Ghodasara Jignesh Madhavjibhai	8980608638	Keshod	Rangpur	Fireman
31	Chudasama Mayur Madhavjibhai	9638941742	Keshod	Rangpur	Home guard
32	Mahida Mansukhbhai Dayabhai	9737730147	Keshod	Raningpara	GRD
33	Gohil Bhikhabhai Punjabhai		Keshod		GRD
34	Chavda Mansukhbhai Babubhai	9978304679	Keshod		GRD
35	Solanki Madhabhai Bijalbhai	9723833921	Keshod		GRD
36	Parmar Devashibhai Karshanbhai	9510087760	Keshod		GRD
37	Vaishali Navanitbhai Bhalodiya	7874535188	Maliya Hatina	Avaniya	NSS
38	Sekhava Ranjitbhai Nagabhai	9879650180	Maliya Hatina	Chorwad	GRD
39	Makadıya Dineshbhai Rupabhai	9624521277	Maliya Hatina	Chorwad	GRD
40	Joshi NaimishVishnukumar	8537352564	Maliya Hatina	Chorwad	SRD
41	Vaja Rameshbhai Madhabhai	8153927611	Maliya Hatina	Juthal	GRD
42	Bamrotiya Kishor Harsukhbhai	9904299228	Maliya Hatina	Khambhaliya	GRD
43	Bamrotiya Ketan Hareshbhai	9978254899	Maliya Hatina	Khambhaliya	GRD
44	Chandera Govind Sarmanbhai	9998596018	Maliya Hatina	Khambhaliya	GRD
45	Chavada Ramabhai Nathubhai	6359108403	Maliya Hatina	Khambhaliya	GRD
46	Chavada Gigan Danabhai	8980891734	Maliya Hatina	Khambhaliya	GRD
47	Gondaliya Sanjay Dhirajlal	9904297040	Maliya Hatina	Khambhaliya	GRD
48	Kavaliya Sagar Kambhai	/359528417	Maliya Hatina	Khambhaliya	Volunteer
49	Kamaliya Divyesh Devashibhai	8140431538	Maliya Hatina	Khambhaliya	Volunteer
50	Chandera Arajandhai Jadavbhai	960189458/	Maliya Hatina	Knamohaliya	Volunteer
51	Palal Karshan Samatbhai	834/626003	Manya Hatina	⊾namohaliya	volunteer

8. List of Trained Aapda Mitra Volunteers of Junagadh District

Sr.	Name of Volunteer	Contact No	Taluka	Village	Agency
52	Patat Anilhai Markhibhai	9265530170	Maliya Hatina	Khambhaliya	Volunteer
52	Chandera Hiran Danmalbhai	9203330170	Maliya Hatina	Khambhaliya	Volunteer
54	Chauban Karansinh Lalijhhai	7600065008	Maliya Hatina	Maliya	GPD
55	Sisodiya Hathisinh Phanabhai	0078781362	Maliya Hatina	Maliya	Home guard
55	Vaja Pharathhai Phikhahhai	0229269141	Maliya Hatina	Chorwad	CPD
57	Cohol Vijev Dopet	9220300141	Maliya Hatina	Galadar	GRD
59	Vala Hitash Kanjibhai	0629170125	Maliya Hatina	Vhore	GRD
50	Chandra Harash Nathabhai	9038179133	Maliya Hatina	Vhoreas	GRD
59	Vadhayana Hanif Ibrahimbhai	9001073004	Maliya Hatina	Sorkadiya	GRD
61	Vadiavana Hann Ioraninona	9913044429	Maliya Hatina	Tarainada	CRD
62	Khaniya Vajy Damahkai	9923184034	Maliya Hatina	Viradi	CRD
62	Khaniya Vaju Kahabhai	9724491424	Maliya Hatina	Virdi	GRD
64	Sindhay Dharat Dayahhai	9/2/340/33	Maliya Hatina	Vilui	UKD Homo guard
64	Sindnav Bharat Bavadhai	9904234630	Maliya Hatina	Vadiya	Home guard
03	Brupatonal Virjional Nanecha	/098815855	Maliya Hatina	Vadala	Homeguard
66	Banesinn Tharanbhai Sosodiya	91063/26/0	Maliya Hatina	Maliya	Homeguard
6/	Ram Jagdish Surabhai		Maliya Hatina	Khambhaliya	GRD
68	Patat Nayan Karshandhai		Maliya Hatina	Knambhaliya	GRD
<u>69</u>	Parmar Chandresh Vinodonai		Maliya Hatina	Chorwad	GRD
/0	Ram Parbatonal Karsnanonal		Maliya Hatina	Khambhaliya	GRD
/1	Patat Asnokbhai Nathabhai	7000070770	Maliya Hatina	Khambhaliya	GRD
72	Chauhan Ghanshyam Savaji	/2288/9//9	Manavadar	Bantwa	GRD
/3	Mori Chirag Rudabhai	9898/33/04	Manavadar	Bantwa	Volunteer
/4	Mori Jaykumar Jethabhai	9/23049212	Manavadar	Bantwa	Volunteer
75	Kodiyatar Kinal Jagmalbhai	7016460729	Manavadar	Bantwa	Volunteer
76	Karamta Varjangbhai Panchabhai	9662642323	Manavadar	Bantwa	Volunteer
77	Parmar Jayantibhai Nathabhai	9538004772	Manavadar	Bhalechada	Home guard
78	Rada Hirabhai Khimabhai	953/186533	Manavadar	Bhalgam	GRD
79	Kaba Ramnikbhai Govindbhai	9879919943	Manavadar	Khadiya	GRD
80	Sarikhada Kamleshbhai Lakhabhai	9/3/363/09	Manavadar	Manavadar	Home guard
81	Theba Jahirbhai Osmanbhai	9638005019	Manavadar	Manavadar	Home guard
82	Jadeja Kuldipsinh Pruthvirajsinh	8140104303	Manavadar	Manavadar	Home guard
83	Parmar Rameshbhai Muljibhai	9974665824	Manavadar	Nanadiya	GRD
84	Parmar Pravinbhai Nathabhai	9624100621	Manavadar	Nanadiya	GRD
85	Parmar Raju Meghajibhai	99/8/55154	Manavadar	Manavadar	Homeguard
86	Rathod Naresh Ravjibhai	9265918544	Manavadar	Manavadar	Homeguard
87	Karangiya Hiteshbhai Nathubhai	7990017171	Manavadar	Limbuda	GRD
88	Chavada Maheshbhai Babubhai	9106947492	Manavadar	Chudava	GRD
89	Parmar Manesh Chanabhai	9558139037	Manavadar	Chudava	GKD
90	Kainoo Jentional Naranbhai	9/22886/51	Ivianavadar	Kothariya	GKD
91	Katnad Hitesh Somabhai	/0964/4469	Mangrol	Ajak	GKD
92	Maru Kamabhai Kalabhai	9662707273	Mangrol	Ajak	GKD
93	Katnad Kavaji Somabhai	9898975942	Mangrol	Ajak	GKD
94	Maru Narsinnbhai Danabhai	9913683885	Mangrol	Ajak	GKD
95	Hardasbhai Danabhai Kathad	9/14586319	Mangrol	Ajak	GKD
96	Jayesh Hardasbhai Kathad	834/494/52	Mangrol	Ajak	GRD
97	Harshad Hamirbhai Jadav	9879050196	Mangrol	Ajak	GRD
98	Gopalbhai Lakhabhai Kathad	9537476370	Mangrol	Ajak	GRD
99	Pratul Gopalbhai Kathad	9537476370	Mangrol	Ajak	GRD
100	Manji Tulsibhai Mevada	9/14536811	Mangrol	Bamanvada	GRD
101	Jaydıp Kıranbhai Solankı	9574549395	Mangrol	Bamanvada	GRD
102	Nilesh Arjan Nandaniya	8238583985	Mangrol	Loyej	GRD
103	Mukesh Kamde Makvana	8238043404	Mangrol	Chakhava	GRD
104	Anıl Vıram Makvana	9624386476	Mangrol	Chakhava	GRD

Sr.	Name of Volunteer	Contact No	Taluka	Village	Agency
105	Chandresh Rajabhai Daki	9773214334	Mangrol	Chakhava	GRD
106	Shailesh Ramdebhai Makvana	8140526359	Mangrol	Chakhava	GRD
107	Gondaliya Alpesh Shamaldas	9773226594	Mangrol	Dhelana	GRD
108	Naresh Raja Vadher	9723387725	Mangrol	Farangta	GRD
109	Pravin Hirabhai Vadher	9909198261	Mangrol	Farangta	GRD
110	Vijay Dayabhai Vadher	9687316119	Mangrol	Farangta	GRD
111	Parag Rajshibhai Vadher	9723001812	Mangrol	Farangta	GRD
112	Umesh Mansukhbhai Vadher	9081157205	Mangrol	Farangta	GRD
113	Hasmukh Mansukhbhai Vadher	9925814467	Mangrol	Farangta	GRD
114	Jigar Kantilal Gharsanda	9723721436	Mangrol	Farangta	GRD
115	Rahul Vejanand Gharsanda	9924254121	Mangrol	Farangta	GRD
116	Kailash Arvindbhai Chauhan	7046444518	Mangrol	Farangta	GRD
117	Mahavadiya Mukesh Mangabhai	9924678773	Mangrol	Ghodadar	GRD
118	Pravin Baiendra Kathad	9824077040	Mangrol	Kankasa	GRD
119	Bechar Khimii Kathad	9909359012	Mangrol	Kankasa	GRD
120	Deva Lakhabhai Karmata	9998266999	Mangrol	Kankasa	GRD
121	Govind Seiabhai Karmata	9714927712	Mangrol	Kankasa	GRD
122	Anil Hamirbhai Makadiya	7874019562	Mangrol	Kankasa	GRD
123	Pankai Khimiibhai Kathad	9687412181	Mangrol	Kankasa	GRD
124	Devmurari Varun Yogeshbhai	7359149349	Mangrol	Mangrol	GRD
125	Kayaiya Kishan Satishbhai	9099639916	Mangrol	Mangrol	GRD
126	Borecha Dipak Mohanbhai	9624241182	Mangrol	Mangrol	Home guard
127	Mahesh Vejabhja Vadher	7283958039	Mangrol	Nandarkhi	GRD
128	Vinod Ramabhai Vadher	9714481881	Mangrol	Nandarkhi	GRD
129	Kanti Rameshbhai Chudasama	8140109071	Mangrol	Nandarkhi	GRD
130	Raiu Ramabhai Vadher	9081089233	Mangrol	Nandarkhi	GRD
131	Shantilal Vejabhai Vadher	7283958039	Mangrol	Nandarkhi	GRD
132	Vinod Mohanbhai Chudasama	8140758951	Mangrol	Nandarkhi	GRD
133	Kamlesh Rajabhai Vadher	8140046169	Mangrol	Nandarkhi	GRD
134	Kamlesh Rameshbhai Chudasama	7283956067	Mangrol	Nandarkhi	GRD
135	Solanki Jaydip Nathabhai	9687834661	Mangrol	Nava Kotada	Home guard
136	Ashok Sidibhai Daki	9574547529	Mangrol	Sangavada	GRD
137	Kara Babubhai Malam	9537624851	Mangrol	Sangavada	GRD
138	Naresh Kanabhai Malam	9925869308	Mangrol	Sangavada	GRD
139	Hamir Hirabhai Malam	9574485332	Mangrol	Sangavada	GRD
140	Vrajlal Kanabhai Malam	8347752400	Mangrol	Sangavada	GRD
141	Haresh Ramabhai Chudasama	9725725827	Mangrol	Sangavada	GRD
142	Sunil Chanabhai Daki	7046073173	Mangrol	Talodra	GRD
143	Vijay Chanabhai Daki	9978358197	Mangrol	Talodra	GRD
144	Vipul Lilabhai Daki	9913152074	Mangrol	Talodra	GRD
145	Divyesh Gijubhai Bharada	9723769565	Mangrol	Talodra	GRD
146	Sivaji Jentibhai Chudasama	7359395343	Mangrol	Talodra	GRD
147	Farukbhai Ibrahimbhai Soneji	8735059308	Mangrol	Shil	GRD
148	Solanki Karan Ranabhai	7096854770	Mangrol	Juna Kotada	Homeguard
149	Solanki Gautam Ranabhai	9727676944	Mangrol	Juna Kotada	Homeguard
150	Bharda Anilbhai Naranbhai	8306703154	Mangrol	Shil	Homeguard
151	Bharada Hirenkumar Karsanbhai	9687864807	Mangrol	Shil	Homeguard
152	Garchar Devabhai Punabhai	7265952144	Mangrol	Khodada	GRD
153	Garchar Karshanbhai Punabhai	9737680767	Mangrol	Khodada	GRD
154	Garchar Dasabhai Pethabhai	9979590637	Mangrol	Khodada	GRD
155	Chudasama Mahobatsinh Dolu	8128344556	Mangrol	Rahij	GRD
156	Chudasama Sukhdebsinh Dolu	8200981031	Mangrol	Rahij	GRD
157	Chudasama Pradipsinh Jalamsinh	6355831205	Mangrol	Rahij	GRD

Sr.	Name of Volunteer	Contact No	Taluka	Village	Agency
158	Chhelana Lakhmanbhai Ebhabhai	9904582288	Mangrol	Rahij	GRD
159	Parmar Nilesh Ramnikbhai	9824203767	Mendarda	Mendarda	Home guard
160	Makvana Harsukh Govindbhai	9825747953	Mendarda	Mendarda	Home guard
161	Gediya Jayeshbhai Pravinbhai	7359305303	Mendarda	Mendarda	GRD
162	Makvana Abudhbhai Amarabhai	7874657690	Mendarda	Mendarda	GRD
163	Parmar Rajeshbhai Ratilal	9574458649	Vanthali	Dungari	Home guard
164	Parmar Dinesh Mangabhai	9913534250	Vanthali	Ganthila	GRD
165	Parmar Narotam Bhikhubhai	9913738954	Vanthali	Ganthila	GRD
166	Ladani Kishorbhai Jamnadasbhai	9978904035	Vanthali	Ganthila	GRD
167	Parmar Mukesh Nathubhai	9638919451	Vanthali	Ganthila	GRD
168	Parmar Jatin Mansukhbhai	9737087588	Vanthali	Ganthila	GRD
169	Chauhan Kamlesh Ramji	9664656001	Vanthali	Ganthila	GRD
170	Tilavat Chandrakant Zaverdas	9558628520	Vanthali	Ravani	GRD
171	Makavana Jeshing Danabhai	8141480063	Vanthali	Thanapipali	GRD
172	Makvana Vallabh Devashibhai	9712491296	Vanthali	Thanapipali	GRD
173	Boricha Naresh Punjabhai	9898463555	Vanthali	Thanapipali	GRD
174	Makavana Mahendra Danabhai	9909060337	Vanthali	Thanapipali	GRD
175	Chauhan Raymal Govind	9687033504	Vanthali	Khorasa	GRD
176	Charoliya Mukesh Mansukhbhai	9104004498	Visavadar	Kalsari	GRD
177	Meghnathi Kailashgiri Umedgiri	9925251036	Visavadar	Moniya	GRD
178	Meghnathi Dipakgiri Umedgiri	9978359130	Visavadar	Moniya	GRD
179	Aparnathi Mahugiri Manugiri	8141671637	Visavadar	Prempara	GRD
180	Rathod Arvind Madhavjibhai	9924680717	Visavadar	Visavadar	GRD
181	Rathod Sunil Naranbhai	7575871905	Visavadar	Moniya	GRD
182	Sameja Sadam Husenbhai	9409274108	Visavadar	Visavadar	GRD
183	Vala Ramnikbhai Karshanbhai	9913388082	Visavadar	Manandiya	GRD
184	Rathod Sandip Bhojabhai	9624842765	Visavadar	Juni chavand	GRD
185	Sagathiya Alpeshbhai Maganbhai	9909368515	Visavadar	Ambala	GRD

Aapda Mitra Summary:

District Total: 185					
Bhesan: 03	Junagadh (Rural): 09	Junagadh City: 07	Keshod: 17	Maliya Hatina: 35	
Manavadar: 19	Mangrol: 68	Mendarda: 04	Vanthali: 13	Visavadar: 10	

9. List of Up Scaling Aapdamitra:-

Sl. No.	Name	Mobile Number	Taluka /Village/ Home Address
1	Rahil Rajakbhai Parmar	9099246224	Gandhichowk Junagadh
2	Raju Sanadkumar Jani	9925550557	Dipanjali,Gaytri School,Junagadh
3	Vivek Rameshbhai Vaja	9974438356	Timbawadi,junagadh
4	Sandip Nanjibhai Vaghela	9173456102	Ramnivas,Bilkha Road Junagadh

5	Chandrashinh Kishorsinh Rathod	7016831964	Khamdrol Road Junagadh
6	Umangbhai Bhovanbhai Kodavala	9712715909	Old Civil Hospital Junagadh
7	Majbutshinh Kanaksinh Chauhan	9712730504	Girnar Darwaja,Junagadh
8	Bharatbhai Nathabhai Nimavat	9924194598	Girnar Darwaja,Junagadh
9	Atul Vinodray Katariya	7016693400	Kadiyavad,Mahakali sheri,Junagadh
10	Jitendra Vallabhbhai Kodavala	7984414716	Adharsh Nagar Joshipura,Junagadh
11	Jitendra Jethabhai Makavana	9979140676	Vankar vas,Manavadar
12	Ashok palabhai Panchal	9879841750	Vankar vas,Manavadar
13	Gautam Dineshbhai Solanki	8238440749	Vankar vas,Manavadar
14	Sagar Jivarajbhai Parmar	8140258573	Vankar vas Shivmandir Mangrol
15	Kishan Govindbhai Parmar	9574419236	Vankar vas Shivmandir Mangrol
16	Mukesh Ratilal Parmar	8140645197	Vankar vas Shivmandir Mangrol
17	Jignesh Chandbhai Vaghela	9824931468	Balaji Mandir Mangrol
18	Bharatkumar Babubhai Gareja	9033264626	Maktupur, Mangrol
19	Jagdish Arjanbhai Sondarva	9913509858	Sat vadla Plot Mendarda
20	Jagdish Bhagvanjibhai Chudasama	9726713730	Ambedkar Nagar Mendarda
21	Pradip ganubha Chuhan	9898630222	Girnar Darwaja,Junagadh
22	Ajaykumar Dhanjibhai Chudasama	8140416490	Mangrol Road chorvad
23	Chavda Dharmeshbhai Badhabhai	6354711631	Vadala
24	Chavda Prakashbhai Vajubhai	9724015065	Vadala
25	Chavda Dilipbhai Badhabhai	9638972972	Vadala

26	Chavda Dilipbhai Badhabhai	9638972972	Vadala
27	Kagda Vanrajbhai Kalubhai	8140242731	Akala
28	Chudasama Kanjibhai Parabatbhai	8511329083	Virdi
29	Kathad Gautambhai Madhabhai	8000171325	Juthad
30	Khambhala Punjabhai Hirabhai	8780152878	Bhanduri
31	Kalthiya Hardikbhai Dhirubhai	7600565544	Amarapur
32	Sanjay Jayantibhai Muchhadiya	9426285435	Lushala
33	Naresh Valajibhai Makdiya	7359134812	Bandhada
34	Vallabh Devsibhai Makvana	9712491296	Thanapipdi
35	Chandu Ukabhai Vanavi	9974157314	Santalpur
36	Bhaveshbhai Ranabhai Vadhiya	9662564086	Kareni
37	Rajubhai Bhojabhai Solanki	9725730817	Kevdra
38	Mukeshbhai Kalabhai	6351889210	Nojanvav
39	Rahulbhai R Soalanki	9106197044	Sahpuer
40	Ramneshbhai D. Rathod	9914162048	Ravni
41	Rameshbhai G. Vanpariya	9726513840	bhlikha
42	Pravinbhai K. Patolia	6356535311	bhlikha
43	Lavejibhai A. Chauhan	8347486327	bhlikha
44	Harsubhai B. Chandpa	9726513840	khadiya
45	Rajabhai K. Parmar	9537780113	khadiya
46	Jayeshbhai H. Chauhan	9909652954	kathrota

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47	Jentibhai D. Rathod	6355472181	kathrota
48	Kishorbhai M. Chauhan	6355578349	kathrota
49	Mahendrabhai D. Savalia	9427985311	visahavder
50	Hareshbhai B. Jotania	9904930327	visahavder
51	Vijaybhai N. Bundhelia	9714248744	visahavder
52	Rameshbhai B. Bhuva	6353347905	visahavder
53	Kishorebhai D. Gagda	9978704365	visahavder
54	Jayeshbhai K. Parmar	8488031831	visahavder
55	Vijaybhai D. Solanki	7779097947	visahavder
56	Kanak Singh S. Sisodia	9714647197	visahavder
57	Sanjaybhai B. Mecca	9974111304	visahavder
58	Faruk H. Dal	9327642208	Maliyahatina
59	Lakhubhai B. Sisodia	9723558123	Maliyahatina
60	Parasotambhai D. Makwana	9714195610	Maliyahatina
61	Arvindbhai J. Makwana	9913515511	Maliyahatina
62	Jamalbhai R. Solanki	9601771895	Maliyahatina
63	Mo. Elias A. Girnari	9824973702	Mangrol
64	Rehmankha U. Belim	9979640833	Mangrol
65	Jafar Khan S. Belim	9662111455	Mangrol
66	Ashwinbhai M. Parmar	7359952307	Mangrol
67	Sarmanbhai G. Parmar	7859978623	Mangrol

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68	Soimkha S. Belim	7698127865	Mangrol
69	Gopalbhai L. Solanki	8780879289	Mangrol
70	Rasikbhai L. Malam	9638017095	Mangrol
71	Jitendrabhai M Solanki	9913649272	Mangrol
72	Bharatbhai D. Parmar	8469515260	chiroda
73	Piyushbhai G. Makwana	9714035058	datrana
74	Vasulkumar P. Makwana	9601577935	datrana
75	Pratapbhai R. Bagda	9925992251	alidra
76	Kishanbhai K. Sondarva	7490858389	Vanthli
77	Sagarbhai A. Boricha	7359136283	Vanthli
78	Satishbhai G. Rathod	7383557488	Vanthli
79	Bharatbhai Chi.Solanki	9725981013	choki
80	Gopal D. Rathod	9510365425	choki
81	DHOKADIYA RAMJIBHAI NATHUBHAI	9979786951	શક્તિનગર-૧ શાંતેશ્વર રોડ જોશીપુરા
82	Suriya Parth M	9998368544	Khodal krupa, block no 41, meetraj park, Khalilpur road, Joshipura, junagadh
83	Smitkumar J. Bhuva	7623877382	Bhuva street
84	DIVARANIYA AJAY JADAVBHAI	6353104059	DHANDHUSAR
85	Akhil Domadiya	9016885724	Radhavadi chock vadal, junagadh
86	SAVALIYA RAJKUMAR JAYSUKHBHAI	6352298824	Gel mataji mandir same , nava pipaliya
87	Surpalsinh Harsurbhai Sisodiya	9313951120	Khodiyar street, Limda chawk, maliya hatina
88	Vora Krishna s	9313021806	Village- kharchiya vakuna, taluko- bhesan, district-junagath

89	GHUSAR MIRALI VARJANGBHAI	9824536916	Isara,keshod,junagadh
90	Palas Raxa Shaileshbhai	9054099827	Krishna nagar society, mendarda
91	Vaja Parixit kumar jivabhai	6355273385	Chandavana vadi vistar Ta.mangrol Dis.junagadh
92	KAMARIYA URVIBEN KARASHANBHAI	9327571407	To- Khambhaliya, taluko- Maliya (Hatina), Jillo- Junagadh
93	Jadav Riddhi Vallabhbhai	9328338072	AtPilalana Ta Manavadar Dist Junagadh
94	NISHIDHA RAJANIKANTHBHAI RAMANI	9023940612	Ravani (kuba), junagadh , Gujarat- 362130
95	Sidapara mansi dharmendrabhai	9712054718	Kathrota, junagadh
96	HAPPY ATULBHAI SABHADIYA	9016297492	To: jambala ta: visavadar dist: Junagadh state: Gujarat pincode:362263
97	BHOOMI RAMESHBHAI KUMBHANI	9016596425	Badalpur, TaJunagadh, Di.Junagadh
98	VISHVA VIRAMBHAI PITHIYA	9099534150	"Krushna kunj" alap colony, gokuldham, mangrol rol
99	BABARIYA MANALIBEN SANJAYBHAI	6358817900	City- junagadh
100	Fadadu dhruvi Sathishbhai	9033222597	A-302 ozone residency monalisa township chobari road Junagadh
101	AXITA A MEGHNATHI	7435856438	Near mangrol mil, behind forest office, mangrol
102	VIDISHA RAMESHBHAI KHUNT	8849679187	Rupavati-ishwariya, visavadar, junagadh Gujarat-362130
103	Ponkiya Priyanka harshukhbhai	9664542946	Post office near Bhatiya pin code: 362215
104	HERBHA TULASi KAMLESHBHAI	8780156067	To:- chitri, keshod
105	Bodar komal meramanbhai	6352984414	B/H barsana society ,pipali road, keshod, junagad,
106	Jadav jignasha Ravjibhai	7698425380	At: lilva , mendarda, junagadh 362260
107	Aastha manojbhai korat	9870016217	Zalansar -junagadh
108	Vadher seema haribhai	9016418358	Balai seri, mitiyaj, junagadh, gujrat
109	Vadariya Brinjal Mehulbhai	7990768442	Ruturaj app., block no305,bhakti nagar,near maulik school, Timbavadi

			bypass road, junagadh		
110	Kandoriya Mital Sarmanbhai	8320401660	Koylana (ghed), Tal.Manavadar, Dis.Junagadh		
111	Muskan	7046987993	Shreeji Park,sardar bag		
112	SHRUTI NITESHBHAI KYADA	6351457557	'Uttam' rankni vadi, pipliya nagar, keshod		
113	Kajalben rajabhai solanki	8160333938	MANROL ROAD, RADHE MAARBAL ROAD, MANGALDHAM , KARENIYA PARK, KESHOD		
114	Teesha A. Dadhaniya	9.19E+11	Nakshatra , Vrajdham society , Zanzarda Road , Junagadh - 362001		
115	CHANDERA AVRUTIBEN VARJANGBHAI	8866895499	To: loej ,TA : MANGROL , DIST: JUNAGADH		
116	Rajkotiya Drashti Kamleshbhai	9427570506	Avadhpuri apperment block no 203		
117	BHARGAVI VIJAYSINH KHER	9737024907	Katrasha gir ta Maliya hatina Di Junagadh gujrat 362245		
118	Bansi jamanbhai paghadar	9737436274	Gopalnagar street no -5 block no -26 joshipura junagadh		
119	Vank khushboo dilipsinh	9726151983	Vadla fatak,garden city,royal villa,street no 7,block no 15 no 15		
120	Shrutiben Gokalbhai Solanki	9316397697	To : Thapala , Ta: Manavadar , Dis : Junagadh		
121	Ribadiya Pallavi Pankajbhai	78599 12437	Satyam part society, visavadar		
122	RUTVIKA BABUBHAI DABHI	7201839445	Dev appartment p wing 401,khalilpur road , Junagadh		
123	HIRPARA PRITESH RASIKBHAI	6352252717	Madhupur gir		
124	Dharasanda Dipalee Mohanbhai	6354663385	To.Farangata, Ta.Mangarol ,Dis.junagadh		
125	Anjali Milanbhai Thakar	9313311294	Gayatri krupa, sarda nagar colony, gramin - shapur, taluka - Mangrol.		
126	SMIT BHARATBHAI KACHHADIYA	9664871878	Chiroda, Mendarda, Junagadh, Gujarat		
127	VIBHUTI BHARAT BHAI KHER	9909533539	Village: Dhelana , taluka:mangrol, district:junagadh		
128	PARITA KANJIBHAI DODIYA	9313425052	College of Agriculture,JAU Junagadh		

129	Amita Dhirubhai Vadar	9714304289	At-Dhandhusar Ta-vanthli Dis- Junagadh
130	Karan B. Kodiyatar	9157036044	Green Park, Chunna Bhaththi Road, Keshod, Junagadh.
131	Pansuriya Ishita Chimanbhai	9.20E+11	Mendarda
132	Sejal bhikhubhai suva	7567558703	To: samega, taluka: Manavadar, dis: junagadh
133	KOTADIYA DHARA BABUBHAI	9726364287	TO.DHEBAR, TA.VISAVADAR, DIST.JUNAGADH
134	Ekata vipulbhai kapadiya	9313381616	Bank of Baroda near seri no 2 bagdu
135	Solanki Parixit Vijaybhai	8200483861	100,Devyani Park, Vanthali Road, Timbavadi.
136	Vaghasiya Sahil vipulbhai	8160957915	Village -chhalda .near pirbapavadi gali
137	Krunal chothani	6353797635	Pipla vadi plot, majevadi, Junagadh
138	Modha Tulsi Prakashbhai	9106863564	Aashirwad, block no -90, krisna park, street no 4,zanzarda road, junagadh
139	JIGNASHA DHIRAJBHAI GEDIYA	8320187983	Oghadnagar josipura junagadh
140	NEHABEN MANSURBHAI KAGDA	9924090378	Darbargadh area, Juthal
141	MATHUKIYA ANKITKUMAR KISHORBHAI	9313599276	Near, bus station, kharachiya(vakuna)
142	Viroja Ritikkumar Umeshbhai	9974450681	Dipganga-A,khakhi nagar, zanzarda road, junagadh
143	Sidhdhapara mohit anilbhai	7778066043	105,shakti apartment, shakti nagar 1 , joshipura, junagadh
144	Lakhnotra Rohit Vajubhai	63535 76744	At.Bhadasi Ta.Una Dist.Junagadh
145	Kambaliya Jaydeep Rambhai	9924663547	Village: Nagalpur, Subdistrict: Mendarda, District: Junagadh
146	VRAJESH PAGHDAR	9773098747	Araniyala
147	Mendapara sahilkumar vasantbhai	9.18161E+11	Zinjari junagadh (362640)
148	Hardip dabhi	8469563396	Aditi nagar , maduram timbavadi road
149	Mori ArpitKumar Meragbhai	6352461615	At:gamvistar,Dhrabavad(gir),Ta:Mal iya(Hatina),dis:junagdh

150	Solanki Dharmishthaben Govindbhai	9106362926	To. Sakrana
151	Talaviya Anvixa Sanjaybhai	9724701788	Nilkanth society, visavadar
152	Nakum Drashtiben Vijaybhai	9510235521	To Bantwa, Street no. 8, Tathi chowk, Ta- manavader, Dist - Junagadh
153	Vadaliya Ketankumar virambhai	9586811012	AT Dhudhala (gir), Maliya, junagadh
154	Katariya Mihir Babubhai	9265609852	To: Navagam(bilkha),dis/tal : junagadh
155	KHER SAURABH MERAMANBHAI	9313992950	TA-Mangrol village -Sultanpur pin- 362225 dist-junagadh
156	Dave Khanjankumar Bhavinbhai	99782 84792	"Shuddhadvet", Nava Plot, Patel samaj pase, Bhanduri, Maliya (Hatina), Junagadh, Gujarat
157	Gohil Ronitkumar Vijaykumar	7284862001	Block no-2, vrundavan society, near vanthli highway, Junagadh
158	Nagajanbhai meramanbhai vala	9313452671	Ta:-keshod, dis:-junagadh, to:- muliyasa
159	Sonariya urvashi Ashok bhai	9737942900	Village. Chandana, taluka.mangrol, dist.junagadh, stat.gujarat, pincode.362225
160	KORIYA VIVEK BALUBHAI	9104697009	Junagadh joshipura goplavadi-3 near by saibaba temple
161	VYAS JIGISHA	9426840074	Zanzarda road, Junagadh
162	MAVARIYA DEVANGV RAJLAL	8460635331	At.kanjha ta.vanthali Ji.junagadh
163	Gohel karan Bhikhu bhai	8780073078	C-1 Trimurti society Nilmadhav palace opp. Joshipura JUNAGAdh
164	VYAS JEET RAJESHBHAI	9054420221	'Gayatrikunj' vanraj nagar 5 veraval road keshod
165	PARMAR RAHUL PARBATBHAI	8320311041	Shanteshwar nagar street no 3, Joshipura junagadh
166	Solanki kalpesh shantilal	9328836499	nana kajaliyala
167	Padariya keyur pareshbhai	7874133817	Talala una rod Balaji fectory ni same balmukund
168	TANK BHAVIN KISHORBHAI	8154865855	VIJAPUR
169	JOSHI RAHIL PRAKASHBHAI	9913914174	Opp. old Post office, jubeli

170	MEHARIYA MAYUR RAMESHBHAI	9099610899	Himkhimdipara ,haripara		
171	BHOLA MILAN JADAVBHAI	9313636822	Moradiya,bhola sheri, Sutrapada		
172	Rupavatiya omkumar rohitbhai	9427900983	Daimand nagar near adash nagar, joshipura junagadh		
173	Dhula Ranjit harsukhbhai	6354244233	New plote, pani na taka pase		
174	VAJA ALKUBHAI MAYABHAI	9427048033	At-Ahir boarding, datar road,kalwa chock, junagadh		
175	ODEDARA VISHAL NATHABHAI	6352263926	Manekwada t.keshod j.junagadh		
176	GAREJA HIREN BHIKHUBHAI	9313569711	bsnl office ni same, housing-3		
177	Chauhan mehul nanaji bhai	9909017667	Sultanpur		
178	CHAVDA PRIYANK NANJIBHAI	9726612276	vishvkarma socity, joshipara		
179	HARSHAD RAMJIBHAI SOLANKI	9586066099	Balalgam keshoad Junagadh		
180	Parmar Ashishkumar Govindbhai	6353134297	Manavadar - Sheradi		
181	SINOJIYA DHRUV RAJESHBHAI	7435014715	105, kishan apartment, joshipura, junagadh.		
182	SOLANKI DEEP BHAVESHBHAI	9313594453	Krupa,near meera complex ,joshipura , junagadh		
183	Pansuriya Nihal Bhaveshbhai	8401316156	Near patel samaj sasan road		
184	Joshi Harsh Pankajkumar	9265916133	Manas nagar, near desainagar		
185	DAMANIYA TUSHARKUMAR NANJIBHAI	9106112251	Junagadh		
186	Yadav Aditya Ramesh Bhai	9081178973	Semarvav		
187	Pancholi Nikunj Arvind bhai	6352868412	Behind bus stand manavadar		
188	Solanki chirag devarkhibhai	7265867503	At - matiyana ta - manavadar, dis - junagadh		
189	PARMAR UMESHBHAI JAYSHREEBEN	9537953413	Nyayadhish Vali Sheri		
190	GOSWAMI NAKSHATRA JASMINPARI	8980005575	ROYAL duplex near agravat clinic vidhtanagar joshipara		

191	Vainsh Manish Nareshbhai	9313454249	Harivav, dalvistar chorwad
192	VALA BHAVDIYSINH VAJUBHAI	8160748853	KUSHYABADI SHERI,SARAKHADI
193	Dobaria Viraj Hareshbhai	8160484399	105,kishan app. , near sivani nagar Joshipura junagadh
194	VAGHASIYA MEET DHANSUKHBHAI	6352360093	Aambavadi-1 JOSHIPURA JUNAGADH
195	MORI ARYAN BHARATBHAI	6354117009	AT:DHRABAVAD GIR ; TA: MALIYA HATINA; DIST: JUNAGADH
196	Thesiya Viral Amrutbhai	7984895102	Shree nath ji krupa, Sardar patel soc., Near anupam flat , joshipura, junagadh
197	satodiya rushikesh pravinkumar	9510794581	chhaya chowki birla road near sigma school
198	Bambhaniya Prince Ramesh Bhai	9054333810	NAVAPARA, PLOT VISTAR
199	VAJA NIRBHAY BHARABHAI	9714942738	Nr. Kal bhairav temple, Lamdhar
200	Jethava Jitendra Bharatbhai	7016128371	At-sokhada,ta-una
201	Jalu Meet Nileshbhai	7359880998	Dwarkapuri Society Manavadar
202	Korat Nakul Mayurbhai	7984358612	B-503, Akshar Parisar -B, Hari om Nagar, zanzarda road, junagadh
203	HADIYA VAIBHAV BHAVESHBHAI	8347863693	F2-102 maa anandi heights devadh gam
204	Pokiya Darpan Jaysukhbhai	7041013133	Near Randal Temple,
205	Barad Ankitbhai Haribhai	9313248070	Rangpur, gam vistar
206	Gohel Manhar Amara	92752 10159	Mankhtra
207	Ram Naran Rambhai	90543 81983	Rahij
208	Belim Najirkha Husankha	90163 52666	Nadarkhi
209	Khambhala Rama Sejabhai	74878 81594	Sheriyaj
210	Bamniya Vijay Ranmalbhai	99048 85487	Maktupur
211	Sindhav Ravatsinh Jivabhai	96871 67048	Janadi

212	Sindhav Ramabhai Alabhai	6356649120	Vadiya
213	Bhalgariya Sidhdharajsinh Alingbhai	6353311024	Ambecha
214	Junjiya Bhaveshbhai Raymalbhai	8511597462	Dhanej
215	Sindhav Pratapbhai Kalubhai	9924095694	Vadiya
216	Parmar Sagar Dhirubhai	9724561654	maliya
217	Parmar Harh Dhirubhai	7698080751	maliya
218	Vadhiya Pareshbhai Babubhai	9925095750	maliya
219	Makadiya Chandrshbhai Rameshbhai	84878 20522	Kalimbhada
220	Kathad Maheshbhai Govindbhai	9974416278	Kalimbhada
221	Solanki Prashant Mukeshbhai	6351989412	Vandarvad
222	Rathod Kalpesh Pithabhai	9624503780	Dhari gundali
223	Rathod Dipak Chhaganbhai	7859961110	Dhari gundali
224	Maru Mayur Pithabhai	9574649349	Dholva
225	Bagad Dilsukhbhai Punabhai	7622929113	Bhesan
226	Makavana Vipul Muljibhai	8238598063	Bhesan
227	Sayariya Dinishbhai Bhimabhai	9586629926	Bagadu
228	Sayariya Prakhshbhai Manubhai	9714315609	Bagadu
229	Sayariya Pravinbhai Kanabhai	9909566652	Bagadu
230	Makavna Manubhai Hamirbhai	9712273981	Khadiya
231	Rathod Jintibhaii Khimabhai	9913539310	Khadiya
232	Parmar Akshay Mansukhbhai	8153844336	Nanadiya

233	Rathore Vinod Devidas	9537198948	Nanadiya
234	Sondarva Tusharbhai Arvindbhai	9327499263	Mandodra
235	Solanki Khengarbhai Ranabhai	9023108984	Katakpara
236	Maru Vijay Arjanbhai	9909621739	Samega
237	Maru Atulbhai Bhayabhai	9727299062	Samega
238	Rathore Mahesh Mansukhbhai	6353818065	Khothariya
239	Parmar Nasibbhai Iswarbhai	9327839593	Nanadiya
240	Parmar Vikarm dayabhai	9328790459	Nanadiya
241	BHARDA ARVIND BHIMABHAI	9909395155	Mangrol
242	VAGHELA MOHAN GOVINDBHAI	9316073171	Mangrol
243	GAREJA SANJAY MOHANBHAI	9978185947	Mangrol
244	BHARDA NARENDRA KACHARABHAI	6353029473	Mangrol
245	CHUDASAMA JITEN JINABHAI	9974831874	Mangrol
246	GAREJA PRAFUL KESHAVBHAI	9998971930	Mangrol
247	BHARDA PRAVIN MENSHIBHAI	8849921721	Mangrol
248	MOKARIYA ASHOK POLABHAI	9978230650	Mangrol
249	DAKI MAHESH BHIMABHAI	7990812479	Mangrol
250	BHARDA GOVIND RAMBHAI	9265392271	Mangrol
251	CHUDASAMA MAHENDRA VEJANANDBHAI	9662111492	Mangrol
252	BHARDA HARESH SAMATBHAI	8128377695	Mangrol
253	PARMAR MOHAN KANABHAI	9714072506	Mangrol

254	PARMAR HARDIK NANJIBHAI	7874051099	Mangrol
255	VADHIYA RAJESH BABUBHAI	VADHIYA RAJESH BABUBHAI 7697373144	
256	PARMAR JITENDRA HIRABHAI	9723230814	Mangrol
257	RAM KESHUR VEJABHAI	9727048729	Mangrol
258	PARMAR KULDIP DHANJIBHAI	9824071612	Mangrol
259	SADHU ASHISH ANANDRAM	9265102646	Mangrol
260	CHHELANA PUNJA VIRAMBHAI	9974687444	Mangrol
261	CHUDASAMA PRAKASH RAMNIKBHAI	6352655463	Mangrol
262	KATALIYA BHUPAT NATHABHAI	8154087844	Mangrol
263	DHANA PRAVINBHAI DEVABHAI	9725418797	Keshod
264	CHANDEGARA SUDHIR RAMJIBHAI	8238609733	Keshod
265	VADARIYA HITESHKUMAR THAKARSHIHBHAI	9979077090	Keshod
266	VISAVADIYA BHAVESH RAVJIBHAI	9228817928	Keshod
267	HITESHKUMAR JAYNTILAL MANDALIYA	9687845935	Manavadar
268	MAYURKUMAR HARIBHAI VAGHELA	9974675451	Manavadar
269	MITHUNKUMAR BHAGVANJIBHAI PARMAR	6351984679	Manavadar
270	SATISHKUMAR KISHORBHAI KATARIYA	7984757866	Manavadar
271	DIVYESH KISHORBHAI BHARDIYA	7984078349	Manavadar
272	VIRANTKUMAR DALPATBHAI RATHOD	9662395480	Manavadar
273	AASHISH JAGDISHBHAI BIDHER	7069675991	Manavadar
274	DHAVALKUMAR JENTILAL RAKHADIYA	8320890135	Manavadar

275	MAHIDA JAYNTILAL NATHABHAI	9979585271	Junagadh		
276	GAUSWAMI VINDOGIRI LAXAMGIRI	9913291271	Junagadh		
277	DHOKADIYA RAMJIBHAI NATHUBHAI	9979786951	Junagadh		
278	BHATT KASHYAP PRAVINBHAI	8128135266	Junagadh		
279	JETHVA DHIRAJBHAI VELJIBHAI	9913845908	Junagadh		
280	GOHEL BIKHALAL CHHAGANBHAI	9726781569	Junagadh		
281	SONDARVA VIJAYBHAI NATHUBHAI	8734901012	Junagadh		
282	CHAVDA KALPESH MANOJBHAI	9778702064	Junagadh		
283	RATHOD PARESH KANJIBHAI	9924567801	Junagadh		
284	JINDANI AFAJAL AMINBHAI	9429223286	Junagadh		
285	SIDA SAMIR ABAHASABHAI	9974435717	Junagadh		
286	PARMAR JAYESH KANJIBHAI	8511692449	Junagadh		
287	KODAVALA SANJAY JERAMBHAI	9726717135	Junagadh		
288	ZALA ANIL UKABHAI	9726510830	Junagadh		
289	BHEDA CHETANKUMAR BHUPATBHAI	9426278615	Junagadh		
290	SAMRAT DHARMSINH VIRSENBHAI	7096459055	Junagadh		
291	MAKVANA DINESHBHAI KALUBHAI	9662684184	બ્લોક નં-૨/૨૬ પોલીસ હેડ ક્વાટ૨ જયશ્રી સીનેમાની બાજુમા		
292	CHHATRIWALA IRFAN MAHAMADHUSSEN	9909012221	K-300 યોગેશ્વર નગર જોષીપુરા મારુતિ નગર		
293	CHAUHAN MUZMMILKHAN HUSENKHAN	8000737379	રઝવી મંઝીલ ધરાનગર શેર નંબર-૨ F.M.ટાવરની સામે		
294	NAYAB FARHANKHAN HUSENKHAN	9978497037	G-1 અજંટા રેસીડેન્સી ભાટીયા ધર્મશાળા રોડ બુકર ફળીયા નાથીબુ		

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			સાહેબ મસ્જીદ
295	KALATHIYA BHARAT HIRABHAI	9099392861	જય દાસારામ કૃપા ઇન્દિરા નગર શિવ મંદિરવાળી ગલી પી.ટી.સી. પરેડ ગાઉન્ડ બાજમા
296	DAL MUSTAKBHAI UMARBHAI	9825564312	ડો.આબેડકરનગર શેરી નંબર-૧ એફ.એમ.ટાવર
297	PARMAR RAVIRAJSINH BHARATSINH	9825723990	B-306 રાજલક્ષ્મી પેલેસ ટાફે શોરૂમ ધોરાજી બાયપાસ મધુરમ બાયપાસ
298	KAILA LANKIT NANALAL	9979576892	ચામુંડા કૃપા-૨૯ સુબોદ નગર-૨-શેરી- ૨ નવિ હવેલી ની બાજુમાં સાંઇબાબા મંદિર
299	PARMAR BIPIN RANABHAI	9879328460	મસ્તરામ ગરબી ચોક શિવપાન ની બાજુમાં પ્રાથમીક શાળા પાસે
300	BELIM RASIDKHAN BAHAUDINKHAN	9898121590	માત્રી રોડ જુના કુંભાર વાડા હ્લીમાં મંઝીલ ભાટીયા ધર્મશાળા રોડ નાથીબુ સાહેબ મસ્જીદ

	10 .List of Government Vehicles made available by RTO Junagadh						
Sr. No	Registration No	Registratio n Date	Owner Name	Current Address	Vehicle Class	Manufac turer	Mobile Number
1	GJ11GA0137	24-Apr-15	MEDICAL SUPRITENDE NT GMERS	JUNAGADH JUNAGADH JUNAGADH Gujarat 362001	Ambula nce	TATA MOTORS LTD	900000000
2	GJ11GA0668	18-Dec-17	THE COMISSIONE R	JUNAGADH MUNICIPAL CORPORATION JUNAGADH Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	JCB INDIA LIMITED	9824480682
3	GJ11GA0583	12-Sep-19	CHIEF DISTRICT HEALTH OFFICER	2ND FLOOR JILLA PANCHAYAT SEVA SDAN B/H SARDAR BAUGOPP SHASHIKUNJ JUNAGADH Junagadh Gujarat 362001	Ambula nce	TOYOTA KIRLOSK AR MOTOR PVT LTD	7567884919
4	GJ11GA1184	20-Mar-23	COMNR, MAHANAGAR PALIKA - JUNAGADH	AT: SWAMI VIVEKANAND BHAVAN, AAZAD CHWOK, JUNAGADH Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	JCB INDIA LIMITED	9426027921
5	GJ11GA0107	10-Aug-16	CHIEF OFFICER KESHOD NAGAR PALIKA	AT KESHOD DIS JUNAGADH KESHOD Junagadh Gujarat 362220	Constru ction Equipm ent Vehicle	TATA MOTORS LTD	9909991010
6	GJ11GA1399	20-Mar-23	COMNR., MAHANAGAR PALIKA - JUNAGADH	AT: SWAMI VIVEKANAND BHAVAN, AAZAD CHOWK, JUNAGADH, Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	JCB INDIA LIMITED	9426027921

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7	GJ11GA0534	24-Oct-17	JUNAGADH MUNICIPAL CORPORATIO N	AZAD CHOK JUNAGADH Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	VE COMME RCIAL VEHICLES LTD	9426448373
8	GJ11GA0313	29-Mar-16	CHIEF OFFICER	MANAVADAR NAGAR PALIKA MANAVADAR MANAVADAR Gujarat 999999	Ambula nce	FORCE MOTORS LIMITED	0
9	GJ11GA0601	11-Aug-17	CHIEF DISTRICT HEALTH OFFICER	2ND FLOOR,HEALTH DEPARTMENT,J ILLA JUNAGADH PANCHAYAT OFF.NR.NEW COLLECTOR OFF. Junagadh Gujarat 362001	Ambula nce	MARUTI SUZUKI INDIA LTD	9825364968
10	GJ11GA0906	01-Feb-21	THE MUNICIPAL COMMISSION ER	JUNAGADH MUNICIPAL CORPORATION SWAMIVIVEKA NAND BHAVAN AAZAD CHOWK Junagadh Gujarat 362001	Ambula nce	TATA MOTORS LTD	9429321688
11	GJ11GA0785	10-Jan-22	AIRPORT DIRECTOR	OFFICE OF THE AIRPORT DIRECTOR KESHOD AIRPORT ROAD Junagadh Gujarat 362220	Ambula nce	SML ISUZU LTD	9429686790
12	GJ11GA0901	18-Aug-21	CHIEF OFFICER KESHOD NAGARPALIK A	AT:CHAR CHOWK,FIRST FLOOR, SWAMI VIVEKANAND MARG,KESHOD Junagadh Gujarat 362220	Constru ction Equipm ent Vehicle	JCB INDIA LIMITED	8141969602
13	GJ11GA0543	18-Oct-17	CHIEF DISTRICT HEALTH OFFICER	NR COLLECTOR OFFICE JUNAGADH TA JUNAGADH Junagadh	Ambula nce	FORCE MOTORS LIMITED	9904890100

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	'		1	Guiarat 362001			
14	GJ11GA0662	01-Feb-21	THE MUNICIPAL COMMISSION ER	JUNAGADH MUNICIPAL CORPORATION SWAMIVIVEKA NAND BHAVAN AAZAD CHOWK JUNAGADH Junagadh Gujarat 362001	Ambula nce	TATA MOTORS LTD	9930228972
15	GJ11GA0669	30-Aug-22	MEDICAL OFFICER PR HEALTH CEN VADAL	RAILWAY STATION ROAD OPP KUMAR SCHOOL TAL JUNAGADH DIST JUNAGADH Junagadh Gujarat 362310	Ambula nce	TATA MOTORS LTD	7567884907
16	GJ11GA0469	09-Mar-17	CHIEF OFFICER	KESHOD NAGAR PALIKA SARDAR BHAVAN CHAR CHOWK KESHOD Junagadh Gujarat 999999	Constru ction Equipm ent Vehicle	VE COMME RCIAL VEHICLES LTD	9879999999
17	GJ18GA1358	30-Jan-15	ASSISTANT DIRECTOR OF ANIMAL	ANIMAL DISEASE INVESTIGATION UNIT, AMRUT KUNJ, NR AYURVED PHARMCY, JOSHIPARA, JUNAGADH Junagadh Gujarat 362002	Ambula nce	TATA MOTORS LTD	9909296897
18	GJ11GA0704	13-Apr-22	PRIMARY HEALTH CENTER	MALIDA ROAD,MENDPA RA TA:BHESAN BHESAN Junagadh Gujarat 362001	Ambula nce	TATA MOTORS LTD	9313032229
19	GJ11GA0705	20-Nov-17	MUNICIPAL COMMISSION ER	SWAMI VIVEKANAND BHAVAN AZAD	Constru ction Equipm	OTHERS	89999999999

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				CHOWK AT JUNAGADH Junagadh Gujarat 362001	ent Vehicle		
20	GJ11GA0220	05-Jan-16	DEAN	GUJARAT EDUCATION AND RESERACH SOCIETY, MEDICAL HOSPITAL, JUNAGADH. Gujarat 362001	Ambula nce	TATA MOTORS LTD	0
21	GJ11GA0955	20-Nov-17	MUNICIPAL CORPORATIO N	SWAMI VIVEKANDAD BHAVAN AZAD CHOWK AT JUNAGADH Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	OTHERS	0
22	GJ11GA0244	05-Jan-16	DEAN	GUJARAT EDUCATION AND RESEARCH, SOCIETY, MEDICAL HOSPITAL,JUN AGADH. Junagadh Gujarat 362001	Ambula nce	TATA MOTORS LTD	8128682186
23	GJ11GA0338	04-May-15	PRINCIPAL AND DEAN COLLEGE	AGRICULTARAL UNIVERCITY AT AND PO JUNAGADH JUNAGADH Gujarat 362001	Mobile Clinic	VE COMME RCIAL VEHICLES LTD	9638666677
24	GJ11GA0657	22-Dec-17	CHIEF OFFICER VANTHALI NAGAR PALIKA	NR,VEGETABLE S MARKET,VANT HALI TA:VANTHALI VANTHALI Junagadh Gujarat 384533	Ambula nce	TATA MOTORS LTD	9558588894
25	GJ11GA0857	10-Jun-19	THE DIRECTOR AND MEM SEC	RANGE FOREST OFFICER SAKKARBAUG ZOO OUTSIDE	Animal Ambula nce	FORCE MOTORS LIMITED	9727727877

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		1		MAJEVADI GAT			
		1	'	AT JUNAGADH	1		
		1	'	Junagadh	1	'	
		ı'	'	Gujarat 362001	1'	'	
		, 	ļ	RANGE FOREST			
		1		OFFICE	1	'	
		1		SAKKARBAG	Animal	FORCE	
26	GJ11GA0889	07-Aug-19		ZOO OUTSIDE	Ambula nce	MOTORS	8320314889
		1	SFC	MAJEVADI		LIMITED	
		1		GATE Junagadh	1	'	
	ļ]	·'	<u> </u> '	Gujarat 362001	ļ'	ļ!	ļ!
		1	'	VETERINARY	1	MAHIND	
		1	DY.DIRECTOR	POLUCLINIC	Ambula	RA &	
27	GJ11GA0387	06-Jun-16	OF ANIMAL	JUNAGADH	nce	MAHIND	9427569745
		1	HUSBANDRY	JUNAGADH		RA	
	ļ	·'	 '	Gujarat 362001	ļ'	LIMITED	ļ!
		1	'	JUNAGADH	1	'	
		1		MUNICIPAL		'	
		1	THE	CORPORATION	1 1	'	
		1 '	MUNICIPAL	SWAMIVIVEKA	Ambula nce	ΤΑΤΑ	
28	GJ11GA0692	01-Feb-21	COMMISSION	NAND BHAVAN		MOTORS	9930228972
		1	ER	AAZAD CHOWK		LTD	
		1	'	JUNAGADH	1	'	
		1	'	Junagadh	1	'	
	ļļ	·'	<u> </u> '	Gujarat 362001	 '	 '	ļļ
		1	'	ΤΟ ΜΟΤΑ	1	'	7567885675
		1	'	KOTDA NEAK	1	'	
		1	MEDICAL	BSNL OFFICE			
20			OFFICER PR H		Ambula		
29	GJ11GAU895	30-Aug-22	CEN MOTA	VISAVADAK	nce	MUIUKS	
		1	KOTDA			LID	
		1	'	JUNAGADH		'	
		1	'	Junagaan	1	'	
		'	·	Gujarat 302130	 '	'	
		1	'		1	'	
		1	'		1	'	
		1	'		1	'	
		1	CHIEF		Ambula	FORCE	
20	C111CA0659	22 100-21	DISTRICT			FUNCE	0672001505
50	GILIGAU035	22-juii-21	HEALTH		nce		80/2001305
		1	OFFICER				
			'			'	
				JUNAGADI		'	
		1	'	Guiarat 989999	1	'	
		·'			Constru	τλτΔ	<u> </u>
31	GJ11GA0429	10-Aug-16	ΟΓΓΙΔΑ		ction	MOTORS	9909991010
	·I	!		JUNAGADII		WOTORS	1

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			KESHOD NAGAR	KESHOD Junagadh Guiarat 262220	Equipm ent Vahicle	LTD	
32	GJ11GA0326	14-Oct-15	CHIEF DISTRICT HEALTH OFFICER	DISTRICT PANCHAYAT JUNAGADH JUNAGADH Gujarat 999999	Ambula	TATA MOTORS LTD	0
33	GJ11GA0936	03-Jun-21	CHIEF OFFICER	VISAVADAR NAGAR PALIKA AT VISAVADAR Junagadh Gujarat 989999	Ambula nce	FORCE MOTORS LIMITED	9978714308
34	GJ11GA1420	27-Oct-23	THE COMMISSION ER MUN CORP JUNAGADH	SWAMI VIVEKANAND BHAVAN AZAD CHOWK M G ROAD JUNAGADH Junagadh Gujarat 362001	Earth Moving Equipm ent	TPS INFRAST RUCTURE LTD	8739907905
35	GJ11GA0571	07-Apr-22	MOBILE HEALTH UNIT SASAN	AT SASAN PRIMARY HEALTH CENTER TA MENDARDA Junagadh Gujarat 362135	Ambula nce	TATA MOTORS LTD	9879303921
36	GJ11GA0782	09-Jul-21	NAGARPALIK A MANAVADAR	NAGAROLIKA MANAVADAR GANDHI CHOW MANAVADAR Junagadh Gujarat 362630	Ambula nce	TATA MOTORS LTD	9979120333
37	GJ11GA0762	30-Aug-22	MEDICAL OFFICER PR HEALTH CEN CHUDA	TORI ROAD TO CHUDA TAL BHESAN DIST JUNAGADH Junagadh Gujarat 362020	Ambula nce	TATA MOTORS LTD	7567885677
38	GJ11GA0925	12-Dec-17	CHIEF DISTRICT HEALTH OFFICER	AT NR COLLECTOR OFFICE JUNAGADH TA JUNAGADH Junagadh Gujarat 362001	Ambula nce	FORCE MOTORS LIMITED	9825364968

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39	GJ11GA0880	07-Aug-19	THE DIRECTOR MEM SEC	RANGE FOREST OFFICE SAKKARBAG ZOO OUTSIDE MAJEVADI GATE Junagadh Gujarat 362001	Animal Ambula nce	FORCE MOTORS LIMITED	8320314889
40	GJ11GA1279	20-Mar-23	COMNR,MAH ANAGAR PALIKA- JUNAGADH	AT:SWAMI VIVEKANAND BHAVAN, AAZAD CHOWK, JUNAGADH, Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	JCB INDIA LIMITED	9426027921
41	GJ11GA0878	17-Nov-17	CHIEF DISTRICT HEALTH OFFICER	AT NR COLLECTOR OFFICE JUNAGADH TA JUNAGADH Junagadh Gujarat 362001	Ambula nce	FORCE MOTORS LIMITED	9825364968
42	GJ11GA0907	01-Jul-19	THE DIRECTOR AND MEM SEC	RANGE FOREST OFFICER SAKKARBAUG ZOO OUT SIDE MAJEVADI GATE Junagadh Gujarat 362001	Animal Ambula nce	FORCE MOTORS LIMITED	9727727877
43	GJ11GA0680	17-Dec-19	KESHOD NAGAR PALIKA	SARDAR BHAVAN SWAMI VIVEKANAND MARG CHAR CHOWK KESHOD Junagadh Gujarat 362220	Ambula nce	FORCE MOTORS LIMITED	8238037898
44	GJ11GA0904	24-Oct-17	MUNICIPAL COMMISSION ER	JUNAGARH MUNICIPAL CORP SWAMI VIVEKANAND BHAVAN AZAD CHOWK JUNAGADH Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	TATA MOTORS LTD	9909991010

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45	GJ11GA0504	30-Aug-22	MEDICAL OFFICER PR HEALTH CN BANTWA	PAJOD ROAD BANTWA TAL MANAVADAR DIST JUNAGADH Junagadh Gujarat 362620	Ambula nce	TATA MOTORS LTD	7567884210
46	GJ11GA0848	11-Aug-17	CHIEF DISTRICT HEALTH OFFICER	2ND FLOOR,HEALTH DEPARTMENT,J ILLA JUNAGADH PANCHAYAT,N R.NEW COLLECTOR OFF. Junagadh Gujarat 362001	Ambula nce	MARUTI SUZUKI INDIA LTD	9825364968
47	GJ11GA1306	20-Mar-23	COMNR., MAHANAGAR PALIKA - JUNAGADH	AT:SWAMI VINEKANAND BHAVAN, AAZAD CHOWK, JUNAGADH Junagadh Gujarat 362001	Constru ction Equipm ent Vehicle	JCB INDIA LIMITED	9426027921
48	GJ11GA0932	30-Aug-22	MEDICAL OFFICER PR HEALTH CEN SASAN	MENDARDA ROAD AT MENDARDA DIST JUNAGADH Junagadh Gujarat 362135	Ambula nce	TATA MOTORS LTD	7567885530

Latitude-Logitude JND_	Vlg	Details
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BHESAN	Bamangadh	21.63	70.65
BHESAN	Barwala	21.60	70.76
BHESAN	Bhatgam	21.61	70.61
BHESAN	Bhesan	21.55	70.70
BHESAN	Cala Gadba	21.50	70.57
BHESAN	Chanaka	21.50	70.72
BHESAN	Chhodvadi	21.52	70.65
BHESAN	Chuda	21.59	70.81
BHESAN	Damrala	21.53	70.88
BHESAN	Dholwa	21.62	70.79
BHESAN	Dudhala	21.58	70.60
BHESAN	Galath	21.58	70.78
BHESAN	Gorakhpur	21.49	70.70
BHESAN	Gorviyali	21.52	70.83
BHESAN	Hadmatiya Khajuri	21.61	70.74
BHESAN	Hadmatiya Khakhra	21.56	70.83
BHESAN	Hadmatiya Vishal	21.61	70.58
BHESAN	Juni Dhari Gundali	21.52	70.79
BHESAN	Kariya	21.56	70.61
BHESAN	Khambhaliya	21.58	70.68
BHESAN	Kharachiya	21.59	70.63
BHESAN	Malida	21.56	70.59
BHESAN	Mandva	21.61	70.66
BHESAN	Mathura Thana	21.45	70.58
BHESAN	Mendpara	21.59	70.60
BHESAN	Morwada	21.54	70.84
BHESAN	Mota Gujariya	21.49	70.75
BHESAN	Nana Gujariya	21.50	70.74
BHESAN	Nava Vaghaniya	21.50	70.63
BHESAN	Navi Dhari Gundali	21.52	70.79
BHESAN	Parab Vavdi	21.58	70.73
BHESAN	Paswala	21.56	70.60
BHESAN	Patla	21.60	70.57
BHESAN	Paturan	21.54	70.58
BHESAN	Patwad	21.54	70.60
BHESAN	Pipaliya Tadka	21.54	70.76
BHESAN	Rafaliya	21.56	70.76
BHESAN	Ranpur	21.57	70.66
BHESAN	Ranshivav	21.46	70.60
BHESAN	Ratanpara	21.48	70.60
BHESAN	Samatpara	21.55	70.61
BHESAN	Sankrola	21.63	70.77
BHESAN	Sardarpar	21.56	70.86

	Sukhour	21.61	70.62
BHESAN		21.01	70.02
BHESAN	Vandarvad	21.51	70.77
	GIRNAR HILLS	21.50	70.08
	Ambaliya	21.52	70.32
	Anondour	21.37	70.55
		21.40	70.51
	Avatadiya Nona	21.40	70.57
JUNAGADH		21.30	70.57
JUNAGADH	Badalpur	21.38	70.57
JUNAGADH	Bagou	21.36	70.51
JUNAGADH	Ballyavad	21.59	70.55
JUNAGADH	Bamangam	21.58	/0.49
JUNAGADH	Bandhala	21.45	70.62
JUNAGADH	Bela	21.39	70.57
JUNAGADH	Bhalgam	21.44	70.59
JUNAGADH	Bhavnath	21.52	70.49
JUNAGADH	Bhiyal	21.64	70.49
JUNAGADH	Bilkha	21.44	70.58
JUNAGADH	Bordevi	21.44	70.53
JUNAGADH	Chobari	21.51	70.42
JUNAGADH	Choki	21.66	70.53
JUNAGADH	Chokli	21.60	70.53
JUNAGADH	Chorvadi	21.42	70.57
JUNAGADH	Datar Hills	21.44	70.51
JUNAGADH	Dervan	21.58	70.51
JUNAGADH	Dolatpara	21.55	70.47
JUNAGADH	Dungar Thana	21.47	70.53
JUNAGADH	Dungarpur	21.46	70.47
JUNAGADH	Galiyavada	21.57	70.43
JUNAGADH	Goladhar	21.62	70.39
JUNAGADH	Hasnapur	21.57	70.51
JUNAGADH	Indreshvar	21.51	70.50
JUNAGADH	Intala	21.41	70.47
JUNAGADH	Isapur	21.61	70.55
JUNAGADH	lvnagar	21.47	70.43
JUNAGADH	Jambudi	21.51	70.52
JUNAGADH	Jamka	21.34	70.53
JUNAGADH	Jhalansar	21.65	70.43
JUNAGADH	Jhanjharda	21.52	70.43
JUNAGADH	Joshipura (M)	21.52	70.45
JUNAGADH	Junagadh Mun. Corpor	21.52	70.44
JUNAGADH	Kathrota	21.62	70.53
JUNAGADH	Kerala	21.64	70.47
	Khadiya	21.42	70 52
	Khalilour	21.72	70.32
JONAGADU	Mailipui	21.33	70.45

JUNAGADH	Khamdhrol	21.55	70.45
JUNAGADH	Limdi Dhar	21.43	70.53
JUNAGADH	Majevdi	21.60	70.40
JUNAGADH	Makhiyala	21.61	70.45
JUNAGADH	Mandanpara	21.43	70.57
JUNAGADH	Mandlikpur	21.48	70.62
JUNAGADH	Mevasa Kamribaina	21.40	70.60
JUNAGADH	Mevasa Khadiya	21.40	70.52
JUNAGADH	Nava Pipaliya	21.47	70.65
JUNAGADH	Navagam	21.43	70.58
JUNAGADH	Padariya	21.46	70.48
JUNAGADH	Palasva	21.46	70.46
JUNAGADH	Patapur	21.42	70.49
JUNAGADH	Patrapsar	21.57	70.37
JUNAGADH	Pipardi Timbo	21.63	70.43
JUNAGADH	Prabhatpur	21.38	70.54
JUNAGADH	Rameshvar	21.39	70.56
JUNAGADH	Ramnath	21.42	70.52
JUNAGADH	Rupavati	21.58	70.31
JUNAGADH	Sabalpor	21.56	70.47
JUNAGADH	Sagdividi	21.47	70.43
JUNAGADH	Salatha	21.41	70.48
JUNAGADH	Sankhdavadar	21.36	70.57
JUNAGADH	Saragvada	21.56	70.45
JUNAGADH	Semrala	21.35	70.54
JUNAGADH	Sodvadar	21.44	70.45
JUNAGADH	Sukhpur	21.58	70.47
JUNAGADH	Surajkund	21.50	70.57
JUNAGADH	Taliyadhar	21.55	70.37
JUNAGADH	Thumbala	21.39	70.63
JUNAGADH	TimbaVadi	21.49	70.42
JUNAGADH	Toraniya	21.43	70.54
JUNAGADH	Umrala	21.43	70.64
JUNAGADH	Vadal	21.60	70.49
JUNAGADH	Vadasimdi	21.62	70.42
JUNAGADH	Vadhavi	21.56	70.40
JUNAGADH	Vanandiya	21.64	70.43
JUNAGADH	Vijapur	21.44	70.46
JUNAGADH	Virpur	21.57	70.42
KESHOD	Agatrai	21.36	70.25
KESHOD	Ajab	21.26	70.35
KESHOD	Akhodad	21.33	70.12
KESHOD	Badodar	21.34	70.28
KESHOD	Balagam	21.36	70.09
KESHOD	Bamnasa	21.38	70.15

KESHOD	Bava Simroli	21.23	70.19
KESHOD	Bhat Simroli	21.22	70.17
KESHOD	Chandigadh	21.34	70.19
KESHOD	Changodarda	21.27	70.14
KESHOD	Char	21.24	70.16
KESHOD	Chitri	21.33	70.31
KESHOD	Dervan	21.38	70.31
KESHOD	Dhrabavad	21.32	70.32
KESHOD	Eklera	21.23	70.21
KESHOD	Fagli	21.33	70.29
KESHOD	Gelana	21.22	70.23
KESHOD	Handla	21.35	70.20
KESHOD	Idhaniya	21.25	70.16
KESHOD	Indrana	21.39	70.08
KESHOD	Isra	21.32	70.16
KESHOD	Jonpur	21.38	70.21
KESHOD	Kalavani	21.22	70.26
KESHOD	Kaneri	21.29	70.31
KESHOD	Keshod (M)	21.30	70.25
KESHOD	Kevadra	21.25	70.22
KESHOD	Khamidana	21.30	70.12
KESHOD	Khirsara	21.30	70.08
KESHOD	Koyalana Lathiya	21.22	70.25
KESHOD	Madhda	21.37	70.19
KESHOD	Magharwada	21.36	70.29
KESHOD	Manekwada	21.39	70.27
KESHOD	Mangalpur	21.39	70.23
KESHOD	Mesvan	21.25	70.28
KESHOD	Moti Ghansari	21.28	70.18
KESHOD	Movana	21.32	70.22
KESHOD	Muliyasa	21.38	70.18
KESHOD	Nani Ghansari	21.29	70.17
KESHOD	Nonjhanvav	21.32	70.37
KESHOD	Nunarda	21.27	70.14
KESHOD	Padodar	21.34	70.16
KESHOD	Panchala	21.32	70.09
KESHOD	Panchala Pati	21.33	70.09
KESHOD	Pankhan	21.91	70.12
KESHOD	Pasvaliya	21.37	70.23
KESHOD	Pipli	21.31	70.18
KESHOD	Pransli	21.29	70.34
KESHOD	Rangpur	21.23	70.30
KESHOD	Raningpara	21.29	70.29
KESHOD	Revadra	21.21	70.24
KESHOD	Sangarsola	21.34	70.34

KESHOD	Sarod	21.35	70.14
KESHOD	Sarod Pati	21.36	70.12
KESHOD	Shergadh	21.23	70.33
KESHOD	Silodar	21.21	70.20
KESHOD	Sondarda	21.26	70.25
KESHOD	Sutrej	21.31	70.07
KESHOD	Titodi	21.29	70.15
MALIA	Achhidra	21.02	70.38
MALIA	Akala	21.15	70.37
MALIA	Akala Gir	21.04	70.44
MALIA	Ambalgadh	21.21	70.42
MALIA	Ambecha	21.12	70.31
MALIA	Amrapur Gir	21.16	70.43
MALIA	Avaniya	21.20	70.32
MALIA	Babra	21.10	70.42
MALIA	Barula	21.04	70.35
MALIA	Bhanduri	21.10	70.28
MALIA	Bhankharvad	21.19	70.35
MALIA	Bodi	21.22	70.39
MALIA	Budhecha	21.09	70.21
MALIA	Chorvad (M)	21.02	70.23
MALIA	Chuldi	21.06	70.38
MALIA	Danderi	21.02	70.37
MALIA	Devgam	21.13	70.47
MALIA	Dhanej Moti	21.08	70.31
MALIA	Dhanej Nani	21.08	70.30
MALIA	Dharampur	21.13	70.42
MALIA	Dhrabavad	21.08	70.43
MALIA	Dubhala	21.14	70.38
MALIA	Gadu	20.05	70.29
MALIA	Galodar	21.14	70.27
MALIA	Gangecha	21.20	70.30
MALIA	Ghumli	21.06	70.24
MALIA	Ghunghati	21.12	70.31
MALIA	Gotana	21.08	70.23
MALIA	Itali	21.12	70.35
MALIA	Jalondar	21.16	70.47
MALIA	Janadi	21.13	70.32
MALIA	Jangar	21.07	70.42
MALIA	Januda	21.03	70.31
MALIA	Jhadka	21.07	70.29
MALIA	Jhunjharpur	21.03	70.20
MALIA	Kadaya	21.09	70.33
MALIA	Kalimbhda	21.15	70.39
MALIA	Kanek	21.03	70.24

MALIA	Katrasa	21.15	70.44
MALIA	Kerala	21.14	70.35
MALIA	Khambhaliya	21.04	70.18
MALIA	Khera	21.06	70.26
MALIA	Khorasa Gir	21.05	70.32
MALIA	Kukasvada	21.05	70.20
MALIA	Lachhadi	21.05	70.41
MALIA	Ladudi -Gir	21.10	70.45
MALIA	Langodra	21.07	70.20
MALIA	Malia	21.15	70.30
MALIA	Matarvaniva	21.19	70.37
MALIA	Panidhra	21.19	70.25
MALIA	Pankuva	21.09	70.36
MALIA	Patla	21.06	70.36
MALIA	Pikhor	21.18	70.21
MALIA	Pipalva	21.04	70.39
MALIA	Samdhivala	21.06	70.29
MALIA	Sarkadiya	21.13	70.36
MALIA	Shantinura	21.02	70.31
MALIA	Sukhnur	21.02	70.28
MALIA	Tarsingda	21.01	70.40
MALIA	Vadala	21.21	70.32
MALIA	Vadiva	21.10	70.32
MALIA	Vandarvad	21.12	70.38
MALIA	Virdi	21.12	70.38
MALIA	Visanvel	21.03	70.26
MANAVADAR	Ambaliya	20.97	70.38
MANAVADAR	Bantwa (M)	21.48	70.07
MANAVADAR	Bhalechda	21.10	70.16
MANAVADAR	Bhalgam	21.13	70.04
MANAVADAR	Bhindora	21.62	70.11
MANAVADAR	Bhitana	21.42	70.05
MANAVADAR	Bodka	21.47	70.23
MANAVADAR	Buri	21.54	70.11
MANAVADAR	Chikhlodra	21.58	69.98
MANAVADAR	Chudva	21.59	70.22
MANAVADAR	Dadva	21.52	70.08
MANAVADAR	Dagad	21.50	70.17
MANAVADAR	Deshinga	21.57	70.00
MANAVADAR	Eklera	21.50	70.03
MANAVADAR	Galvav	21.49	70.19
MANAVADAR	Gana	21.62	70.10
MANAVADAR	Indra	21.52	70.11
MANAVADAR	Jambuda	21.55	70.16
MANAVADAR	lilana	21.51	70.12
MANAVADAR	Jilana	21.54	70.12

MANAVADAR	Katakpara	21.47	70.20
MANAVADAR	Khadiya	21.58	70.25
MANAVADAR	Khakhavi	21.46	70.12
MANAVADAR	Kodvav	21.51	70.01
MANAVADAR	Kothadi	21.43	70.19
MANAVADAR	Kothariya	21.47	70.16
MANAVADAR	Koylana	21.14	70.17
MANAVADAR	Limbuda	21.57	70.08
MANAVADAR	Manavadar (M)	21.49	70.12
MANAVADAR	Mandodra	21.41	70.15
MANAVADAR	Marmath	21.58	70.02
MANAVADAR	Matiana	21.39	70.10
MANAVADAR	Mitadi	21.47	70.14
MANAVADAR	Nakra	21.44	70.11
MANAVADAR	Nanadiya	21.44	70.09
MANAVADAR	Nandarkha	21.45	70.18
MANAVADAR	Padardi	21.38	70.07
MANAVADAR	Pajod	21.54	70.06
MANAVADAR	Piplana	21.43	70.24
MANAVADAR	Rafala	21.53	70.08
MANAVADAR	Ronki	21.52	70.17
MANAVADAR	Samega	21.52	70.01
MANAVADAR	Sanosra	21.52	70.19
MANAVADAR	Saradiya	21.58	70.04
MANAVADAR	Sarang Pipli	21.46	70.19
MANAVADAR	Sardargadh	21.57	70.19
MANAVADAR	Sherdi	21.58	70.13
MANAVADAR	Sitana	21.43	70.06
MANAVADAR	Sultanabad	21.49	70.10
MANAVADAR	Thaniyana	21.59	70.28
MANAVADAR	Thapala	21.50	70.00
MANAVADAR	Untadi	21.58	70.15
MANAVADAR	Vada	21.60	70.08
MANAVADAR	Vadala	21.41	70.08
MANAVADAR	Vadasda	21.66	70.11
MANAVADAR	Vekri	21.59	70.05
MANAVADAR	Velva	21.55	70.16
MANAVADAR	Zinzri	21.60	70.18
MANGROL	Ajak	21.23	70.02
MANGROL	Antroli	21.22	70.00
MANGROL	Arena	21.08	70.17
MANGROL	Bagasra-Ghed	21.37	69.97
MANGROL	Bamanvada	21.22	70.05
MANGROL	Bhatgam	21.17	70.19
MANGROL	Bhathrot	21.38	70.00

MANGROI	Chandvana	21 19	70 12
MANGROL	Chankhya	21.23	70.06
MANGROL	Chingariya	21.21	70.14
MANGROL	Chotilividi	21.14	70.22
MANGROL	Darsali	21.23	70.13
MANGROL	Dhelana	21.14	70.17
MANGROL	Divasa	21.20	70.02
MANGROL	Divrana	21.26	70.11
MANGROI	Farangta	21.20	70.07
MANGROI	Fulrama	21.20	70.03
MANGROI	Ghodadar	21.33	69.99
MANGROL	Gorei	21.19	70.13
MANGROI	Hantarpur	21.38	69.98
MANGROL	Husenabad	21.09	70.16
MANGROL	Jamvali	21.11	70.26
MANGROL	Juthal	21.16	70.24
MANGROL	Kalei	21.24	70.08
MANGROL	Kaletpar	21.13	70.15
MANGROL	Kankana	21.26	70.09
MANGROI	Kankasa	21.17	70.08
MANGROL	Karamdi	21.20	70.16
MANGROL	Khodada	21.06	70.17
MANGROL	Kotda Juna	21.12	70.16
MANGROL	Kotda Nava	21.12	70.16
MANGROL	Lambora	21.15	70.19
MANGROL	Langad	21.40	70.05
MANGROL	Lathodra	21.18	70.29
MANGROL	Lohej	21.16	70.06
MANGROL	Maktupur	21.13	70.09
MANGROL	Mangrol (M)	21.12	70.11
MANGROL	Mankhetra	21.15	70.12
MANGROL	Mekhadi	21.25	70.03
MANGROL	Menanj	21.18	70.12
MANGROL	Miti	21.42	70.00
MANGROL	Nagichana	21.21	70.10
MANGROL	Nandarkhi	21.20	70.08
MANGROL	Navalkhodhed	21.34	70.00
MANGROL	Osa Ghed	21.36	70.05
MANGROL	Rahij	21.15	70.08
MANGROL	Roodalpur	21.16	70.13
MANGROL	Sakrana	21.17	70.22
MANGROL	Samarda	21.30	70.00
MANGROL	Sandha	21.30	70.04
MANGROL	Sangavada	21.19	70.02
MANGROL	Sarsali	21.28	70.08

MANGROL	Shaikhpur	21.12	70.17
MANGROL	Shapur	21.10	70.13
MANGROL	Sharma	21.31	69.98
MANGROL	Shepa	21.11	70.19
MANGROL	Sheriyaj	21.09	70.15
MANGROL	Sheriyakhan	21.11	70.19
MANGROL	Shil	21.19	70.04
MANGROL	Sultanpur	21.17	70.16
MANGROL	Talodra	21.19	70.07
MANGROL	Thali	21.28	70.06
MANGROL	Vadla	21.22	70.04
MANGROL	Virol	21.26	70.07
MANGROL	Virpur	21.16	70.20
MANGROL	Zariyavada	21.20	70.05
MENDARDA	Alidhra	21.35	70.42
MENDARDA	Amargadh	21.30	70.43
MENDARDA	Ambala	21.26	70.46
MENDARDA	Ambla	21.29	70.37
MENDARDA	Amrapur	21.20	70.47
MENDARDA	Arniyala	21.35	70.36
MENDARDA	Babar Tirath	21.27	70.44
MENDARDA	Barvala	21.34	70.38
MENDARDA	Chandravadi	21.22	70.44
MENDARDA	Chiroda	21.33	70.47
MENDARDA	Datrana	21.37	70.46
MENDARDA	Dedakiyal	21.23	70.45
MENDARDA	Devgadh	21.29	70.42
MENDARDA	Dhandhawada	21.32	70.37
MENDARDA	Gadakiya	21.18	70.52
MENDARDA	Gadhali	21.24	70.41
MENDARDA	Gundala	20.90	70.01
MENDARDA	Gundiyali	21.20	70.49
MENDARDA	Itali	21.30	70.55
MENDARDA	Jambudi Nes	21.21	70.53
MENDARDA	Jhinjhuda	21.31	70.48
MENDARDA	Kanthala Nes	21.22	70.55
MENDARDA	Karsangadh	21.23	70.52
MENDARDA	Kenadipur	21.27	70.48
MENDARDA	Khadpipli	21.39	70.42
MENDARDA	Khijadiya	21.26	70.41
MENDARDA	Khim Padar	21.39	70.45
MENDARDA	Kiloriya Nes	21.23	70.53
MENDARDA	Lilva	21.26	70.43
MENDARDA	Malanka	21.24	70.50
MENDARDA	Manpur	21.30	70.45

MENDARDA	Mendarda	21.31	70.44
MENDARDA	Mithapur	21.38	70.40
MENDARDA	Moti Khodiyar	21.32	70.52
MENDARDA	Nagalpur	21.39	70.48
MENDARDA	Najapur	21.18	70.54
MENDARDA	Najapur (Chhatariya)	21.18	70.55
MENDARDA	Nani Khodiyar	21.28	70.47
MENDARDA	Nataliya	21.28	70.51
MENDARDA	Patarama	21.23	70.43
MENDARDA	Rajavad	21.28	70.38
MENDARDA	Rajesar	21.31	70.38
MENDARDA	Ranidhar	21.20	70.48
MENDARDA	Samadhiyala	21.33	70.40
MENDARDA	Simasi	21.36	70.38
MENDARDA	Surajgadh	21.19	70.54
MENDARDA	Timbi	21.23	70.46
MENDARDA	Vaniya Vav	21.23	70.51
VANTHALI	Akha	21.41	70.22
VANTHALI	Balot	21.50	70.34
VANTHALI	Bandhda	21.43	70.35
VANTHALI	Bantiya	21.52	70.28
VANTHALI	Barwala	21.54	70.31
VANTHALI	Bhatiya	21.41	70.39
VANTHALI	Bodka	21.42	70.37
VANTHALI	Dhandhusar	21.54	70.35
VANTHALI	Dhanfuliya	21.45	70.39
VANTHALI	Dungri	21.54	70.24
VANTHALI	Gadoi	21.42	70.28
VANTHALI	Ganthila	21.43	70.40
VANTHALI	Ghantiya	21.51	70.27
VANTHALI	Ghudvadar	21.44	70.44
VANTHALI	Kajaliya Mota	21.44	70.34
VANTHALI	Kajaliya Nana	21.45	70.37
VANTHALI	Kanjha	21.44	70.30
VANTHALI	Kanjhadi	21.44	70.33
VANTHALI	Khokharda	21.42	70.31
VANTHALI	Khorasa	21.36	70.33
VANTHALI	Khumbhdi	21.40	70.30
VANTHALI	КоуІі	21.50	70.38
VANTHALI	Lushala	21.39	70.32
VANTHALI	Luvarsar	21.46	70.39
VANTHALI	Mahobatpur	21.42	70.42
VANTHALI	Meghpur	21.48	70.26
VANTHALI	Nagadiya	21.38	70.37
VANTHALI	Nandarkhi (Ranijividi)	21.52	70.39

VANTHALI	Naredi	21.50	70.25
VANTHALI	Navada	21.45	70.25
VANTHALI	Navlakhi	21.51	70.31
VANTHALI	Ranijividi	21.52	70.41
VANTHALI	Ravni	21.56	70.31
VANTHALI	Raypur	21.43	70.43
VANTHALI	Sahapur	21.49	70.40
VANTHALI	Santalpur	21.47	70.28
VANTHALI	Selra	21.45	71.41
VANTHALI	Sendarda	21.40	70.24
VANTHALI	Shapur	21.46	7037
VANTHALI	Sonardi	21.43	70.42
VANTHALI	Sukhpur	21.42	70.44
VANTHALI	Thanapipli	21.40	70.36
VANTHALI	Tikar-padardi	21.42	70.20
VANTHALI	Tinmas	21.42	70.26
VANTHALI	Umatwada	21.53	70.39
VANTHALI	Vadla	21.47	70.40
VANTHALI	Vanthali (M)	21.47	70.33
VANTHALI	Vaspada	21.39	70.39
VANTHALI	Zampodad	21.52	70.24
VISAVADAR	Amaliyara	21.18	70.79
VISAVADAR	Ambala	21.35	70.79
VISAVADAR	Bagoya	21.25	70.83
VISAVADAR	Bajariya	21.18	70.77
VISAVADAR	Baradiya	21.33	70.58
VISAVADAR	Barvaniya Nes	21.20	70.67
VISAVADAR	Bhalgam	21.44	70.85
VISAVADAR	Bhat Vavdi	21.39	70.87
VISAVADAR	Bhutdi	21.36	70.77
VISAVADAR	Bogadiya	21.12	70.84
VISAVADAR	Chaparda	21.35	70.67
VISAVADAR	Chavand Juni	21.38	70.68
VISAVADAR	Chavand Navi	21.38	70.66
VISAVADAR	Chhalda	21.42	70.74
VISAVADAR	Chhelanka	21.38	70.78
VISAVADAR	Dadar	21.34	70.61
VISAVADAR	Desai Vadala	21.40	70.76
VISAVADAR	Devkaraniya	21.12	70.73
VISAVADAR	Dhebar	21.40	70.78
VISAVADAR	Dudhala	21.26	70.76
VISAVADAR	Ghantiyan	21.37	70.62
VISAVADAR	Ghodasan	21.37	70.85
VISAVADAR	Goradwala	21.13	70.75
VISAVADAR	Govindpara	21.32	70.79

VISAVADAR	Hadmatiya Mota	21.46	70.65
VISAVADAR	Hadmatiya Nana	21.44	70.77
VISAVADAR	Haldarva Nes	21.19	70.77
VISAVADAR	Haripur	21.29	70.61
VISAVADAR	Hasnapur	21.26	70.81
VISAVADAR	Ishvariya (Gir)	21.31	70.63
VISAVADAR	Ishvariya Mandavad	21.41	70.71
VISAVADAR	Jambala	21.33	70.55
VISAVADAR	Jambuda	21.41	70.81
VISAVADAR	Jambudi	21.28	70.72
VISAVADAR	Javaldi	21.25	70.73
VISAVADAR	Jetalvad	21.35	70.82
VISAVADAR	Jhanjhesar	21.39	70.83
VISAVADAR	Kagmal	21.22	70.83
VISAVADAR	Kalavad	21.33	70.80
VISAVADAR	Kalsari	21.33	70.76
VISAVADAR	Kanavadla	21.44	70.77
VISAVADAR	Kanjarda	21.33	70.66
VISAVADAR	Kankai	21.11	70.79
VISAVADAR	Kankchiyala	21.37	70.83
VISAVADAR	Karkadi	21.10	70.82
VISAVADAR	Khambha Gir	21.28	70.63
VISAVADAR	Khambhaliya	21.39	70.65
VISAVADAR	Khambhda	21.20	70.75
VISAVADAR	Khijadiya	21.38	70.63
VISAVADAR	Kotda Mota	21.47	70.72
VISAVADAR	Kotda Nana	21.44	70.70
VISAVADAR	Kuba(Ravani)	21.39	70.76
VISAVADAR	Kutiya- Amliyara	21.15	70.82
VISAVADAR	Lalpur	21.33	70.84
VISAVADAR	Lasa	21.17	70.78
VISAVADAR	Leriya	21.39	70.71
VISAVADAR	Lilapani	21.15	70.81
VISAVADAR	Liliya	21.31	70.56
VISAVADAR	Limadhra	21.29	70.57
VISAVADAR	Lunghiya	21.40	70.92
VISAVADAR	Mahuda	21.39	70.80
VISAVADAR	Mahudi	21.39	70.80
VISAVADAR	Makhaniya	21.19	70.73
VISAVADAR	Manandiya	21.27	70.76
VISAVADAR	Mandavad	21.35	70.74
VISAVADAR	Manganath Pipli	21.42	70.70
VISAVADAR	Miya Vadla	21.32	70.62
VISAVADAR	Moniya	21.36	70.69
VISAVADAR	Monpari Moti	21.30	70.65

VISAVADAR	Monpari Nani	21.35	70.64
VISAVADAR	Mota Bhilgala	21.18	70.69
VISAVADAR	Navaniya	21.47	70.67
VISAVADAR	Padapani	21.15	70.75
VISAVADAR	Panjrapole Ni Suva	21.17	70.80
VISAVADAR	Panvi	21.17	70.69
VISAVADAR	Pindakhai Moti	21.44	70.77
VISAVADAR	Pindakhai Nani	21.44	70.83
VISAVADAR	Pipaliya Hajani	21.47	70.77
VISAVADAR	Pirvad	21.50	70.78
VISAVADAR	Piyava Gir	21.26	70.67
VISAVADAR	Prempara	21.29	70.70
VISAVADAR	Rabarika	21.42	70.76
VISAVADAR	Rajpara	21.27	70.78
VISAVADAR	Ratang	21.31	70.60
VISAVADAR	Ravani (Kuba)	21.39	70.74
VISAVADAR	Ravani Mundiya	21.29	70.92
VISAVADAR	Rosali	21.13	70.81
VISAVADAR	Rupavati	21.42	70.71
VISAVADAR	Sarsai	21.34	70.69
VISAVADAR	Shapar	21.44	70.91
VISAVADAR	Shapar (Nes)	21.14	70.79
VISAVADAR	Shirvaniya	21.43	70.71
VISAVADAR	Shobhavadla Gir	21.35	70.57
VISAVADAR	Shobhavadla Lashkar	21.46	70.80
VISAVADAR	Sudavad	21.42	70.90
VISAVADAR	Sukhpur	21.40	70.74
VISAVADAR	Suvardi	21.16	70.79
VISAVADAR	Tadhi	21.23	70.81
VISAVADAR	Vadala Shetranj	21.36	70.61
VISAVADAR	Vajdi	21.41	70.68
VISAVADAR	Vekariya	21.31	70.91
VISAVADAR	Vichhavad	21.45	70.73
VISAVADAR	Virpur	21.42	70.61
VISAVADAR	Visavadar (M)	21.34	70.75

Satellite	e Phone Number		
S.No.	DISTRICT NAME	IMEI No.	Phone Number
1.	AHMEDABAD CITY(MC)	353032044157861	8991115047
2.	AHMEDABAD	353032044156657	8991115048
3.	AMRELI	353032044158232	8991115046
	ANAND	353032044161202	8991115043
4.	BANASKATHA	353032044160212	8991115042
5.	BHARUCH	353032044160295	8991115041
6.	BHAVNAGAR	353032044160618	8991115044
7.	DAHOD	353032044160709	8991115045
8.	DANG	353032044160774	8991115036
9.	DEVBHOOMI DWARKA	353032044160451	8991115037
10.	GANDHINAGAR	353032044161319	8991115038
11.	JAMNAGAR	353032044158612	8991115040
12.	JUNAGADH	353032044161442	89911 15039
13.	KHEDA	353032044160196	8991115034
14.	КАСНСНН	353032044159958	8991115035
15.	MEHSANA	353032044158828	8991115033
16.	NARMADA	353032044161350	8991115032
17.	NAVSARI	353032044158802	8991115031
18.	PANCHMAHAL	353032044157234	8991115030
19.	PORBANDAR	353032044157465	8991115029
20.	RAJKOT	353032044157556	8991115026
21.	SABARKANTHA	353032044157457	8991115027
22.	SURENDRANAGAR	353032044157564	8991115026
23.	SURAT	353032044145353	8991115024
24.	SURAT CITY	353032044146609	8991115025
25.	ТАРІ	353032044146823	8991115023
26.	VADODARA CITY	353032044144729	8991115022
27.	VALSAD	353032044146617	8991115021
28.	SEOC	353032044044648	8991115020
29.	CEO-GSDMA	353032044043954	8991115019
30.	JAMNAGAR MC	353032044044655	8991115018
31.	JUNAGARH MC	353032044043889	89911 15017
32.	RAJKOT MC	353032044043608	8991115016
33.	BOTAD	353032041746302	8991115049
34.	ARVALLI	353032040819159	8991115050
35.	PATAN	353032041844156	8991115051
36.	VADODARA	353032041433604	8991115052
37.	GIR SOMNATH	353032041424710	8991115053
38.	CHOTTAUDEPUR	353032041844461	8991115054
39.	MORBI	353032040543395	8991115055
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2. District Map showing roads and rail network, air ports and sea ports.







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PORT SIGNAL

્રીગ્નલ ાંબર	સંકેતની વિગત	દિવસની	રાત્રિની નિઝાની	
1	હવા તોફાની અથવા સપાટી વાળી છે કે નથી. વાવાઝોડ આવશે કે નહી? તેની ચેતવણી		8	
2	વાવાઝોડુ થયું છે. સીગ્નલ નં. ૧ અને ૨ બતાવે છે. નં. ૨ બતાવે છે કે બંદર છોડયા પછી વહાણોને બળનો સામનો કરવો પડશે.		-	
3	સપાટી વાળી હવાથી બંદર ભયમાં છે.	•	\$	
4	વાવાઝોડાથી બંદર ભયમાં છે પરંતુ અત્યાર સુધી ભય એવો ગંભીર જણાતો નથી, કે જેના માટે સાવચેતીના કોઈ પગલા લેવાની જરૂર પડે.		\$	
5	થોડા અથવા સાધારણ પ્રકારનું વાવાઝોડુ બંદરથી દક્ષિણ દિશા તરક ક્રીનારાઓ ઓળંગવાનો સંભવ છે. જેથી બંદરમાં ભારે હવાનો સંભવ છે.	*	S	
6	(ભય) થોડા અથવા સાધારણ પ્રકારનું વાવાઝોડુ બંદરથી ઉતર તરફનો કીનારો ઓળંગવાનો સંભવ છે. જેથી બંદર ઉપર ભારે હવાનો અનુભવ છે.	*	8	
7	(ભય) પાતળા અથવા સાધારશ પ્રકારનું વાવાઝોડુ બંદર નજીક અગર બંદર ઉપર થઈને પસાર થવાનો સંભવ છે. જેમાંથી બંદરે ભારે તોફાની હવાનો સામાનો કરવો પડે.	¥	8	
8	(મહા ભય) ભારે જોરવાળું વાવાઝોડુ બંદરથી દક્ષિણ તરક કિનારો ઓળંગવાનો સંભવ છે. જેથી બંદરે બહુજ તોકાની હવાનો અનુભવ થશે.			
9	(મહા ભય) ભારે જોરવાળું વાવાઝોડુ બંદરથી ઉતર તરફ કિનારો ઓળંગવાનો સંભવ છે. જેથી બંદરે બહુજ તોફાની હવાનો અનુભવ થાય.			4.
10	(મહા ભય) ભારે જોરવાળું વાવાઝોડુ બંદરથી અગર બંદર ઉપર થઈને પસાર થવાનો સંભવ છે. આથી બંદરને ભારે તોફાની હવાનો અનુભવ થવાની શક્યતા છે.	X		
11	તાર વ્યવસ્થા બંધ કોલાબા હવા ચેતવણીના કેન્દ્ર સાથેનો તાર વ્યવહાર ખોરવાઈ ગયેલ છે. કે જેથી સ્થાનીક અધીકારીનું	X		1





District Emergency Operation CentreDisaster Management Branch, Nr. Bahumali Bhavan, Sardar Baug, Junagadh. 362001.Ph.: 0285- 2633446
- 2633447, 1077Fax: 0285 - 2633449E-Mail: dismgmt-jun@gujarat.gov.in
Updaetd as on -04-2024

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