

# State Crisis Plan (Chemical Disaster Management Plan)

(Under Emergency Planning, Preparedness and Response Rules,1996)



**UPDATED**  
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**GUJARAT STATE**

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## PREFACE

The rapid growth of chemical industries has significantly contributed to the economic development of the Gujarat State. However, the Manufacture, Storage and Handling of Hazardous Chemicals also pose potential risks to workers, the public and the environment if not managed properly. Therefore it is essential to establish an effective preparedness and response mechanism to deal with possible emergencies.

There are 960 Major Accident Hazard (MAH) units in Gujarat State which is the highest number as compared to other States. The potential for major accidents by increasing production, storage and use of dangerous substances implies that a well-defined and systematic approach is required if major chemical disasters have to be avoided.

This State Crisis Plan for chemical disaster management has been prepared to provide a comprehensive framework for prevention, preparedness, response and mitigation of chemical accidents in the State. The plan outlines the roles and responsibilities of various government departments, emergency services, industries and other stakeholders in managing chemical emergencies in a coordinated and efficient manner. The plan also emphasizes the importance of risk assessment, emergency planning, capacity building and regular mock drills to strengthen the overall disaster management system. It is intended to guide authorities and industries in responding promptly and effectively to chemical accidents, thereby minimizing their impact on human life, property and environment.

The State Crisis Group (SCG), constituted under the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996 is the apex body in the State to deal with major chemical accidents. SCG provides expert guidance for handling major chemical accidents and extends assistance to the State Government in managing chemical accidents.

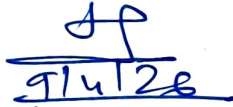
The present document is prepared with a view to assist the State Government in the event of major chemical accidents in the State. This includes updated information regarding MAH units with their storage of hazardous chemicals which will help State in better planning, preparedness and mitigation of chemical disasters.

The successful implementation of this plan requires active cooperation and coordination among all concerned agencies, including district administration, regulatory authorities, industries and the community with continuous efforts towards safety awareness, preparedness and compliance with statutory provisions such as the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989. The State aims to ensure a safer industrial environment.

Director Industrial Safety & Health (DISH), industries, trade unions and district and local authorities, as well as the police, fire stations, hospitals and other agencies will find this document indispensable.

Lastly, I would like to acknowledge the hard work of Director Industrial Safety and Health and other key stakeholders who brought this useful document.

Gandhinagar  
Date: 09/04/2026

  
Shri Lochan Sehra, IAS  
Member Secretary, State Crisis Group  
&  
Secretary  
Labour, Skill Development and  
Employment Department,  
Government of Gujarat

### **Abbreviations**

AEGL	Acute Exposure Guideline Level
ATIs	Administrative Training Institutes
BLEVE	Boiling Liquid Expanding Vapor Explosion
CAEPPR)Rules	Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
CAS	Crisis Alert System
CBRN	Chemical Biological Radiological and Nuclear
CCG	Central Crisis Group
CCR	Central Control Room
CIDM	Chemical Industrial Disaster Management
CIF	Chief Inspector of Factories
CMVR	Central Motor Vehicles Rules 1989
CPRI	Central Power Research Institute
DCG	District Crisis Group
DCR	District Control Room
DDMA	District Disaster Management Authority
DDMAP	District Disaster Management Action Plans
DGFASLI	Directorate General of Factory Advice Service and Labour Institutes
DISH	Director Industrial Safety and Health
DM	Disaster Management
DMP	Disaster Management Plan
EIA	Environment Impact Assessment
EIP	Emergency Information Panel
EMP	Emergency Management Plan
ENVIS	Environmental Information Systems
EOC	Emergency Operations Centre
ERPG	Emergency Response Planning Guideline
GIDM	Gujarat Institute of Disaster Management
GIS	Geographical Information System
GSDMA	Gujarat State Disaster Management Authority
HAZAN	Hazard Analysis
HAZCHEM	Hazardous Chemical
HAZMAT	Hazardous Material
HAZOP	Hazard and Operability Study
HIRA	Hazard Identification and Risk Analysis
HRD	Human Resource Development
HSE	Health, Safety and Environment
ICSC	International Chemical Safety Cards
IDLH	Immediately Dangerous to Life and Health
IDRN	India Disaster Resource Network
IRT	Incident Response Team
ISBEID	Indian State Level Basic Environment Information Database
IT	Information Technology
kW/sqm	kilowatt per square meter
LBSNAA	Lal Bhadur Shastri National Academy of
LC 50	Lethal Concentration at 50% mortality
LCG	Local Crisis Group
LPG	Liquefied Petroleum Gas
MAH	Major Accident Hazard

MARG	Mutual Aid Response Group
MoEF&CC	Ministry of Environment, Forest & Climate change
MoP & NG	Ministry of Petroleum and Natural Gas
MSDS	Material Safety Data Sheet
MSIHC Rules	the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
NAP-CIDM	National Action Plan on Chemical (Industrial) Disaster Management
NDMA	National Disaster Management Authority
NDRF	National Disaster Response Force
NEC	National Executive Council
NGOs	Non-Governmental Organizations
NIDM	National Institute of Disaster Management
NTIs	Nodal Training Institutes
OISD	Oil Industry Safety Directorate
PESO	Petroleum and Explosives Safety Organization
PLI Act	Public Liability Insurance Act
PNGRB	Petroleum and Natural Gas Regulatory Board
PPM	Parts per million
RA	Risk Assessment/Risk Analysis
RM	Risk Management
RTO	Regional Transport Officer
SCP-CDMP	State Crisis Plan (Chemical disaster management plan)
SCG	State Crisis Group
SDMA	State Disaster Management Authority
SDRF	State Disaster Response Force
SEC	State Executive Council
SOPs	Standard Operating Procedure
SPCB	State Pollution Control Board
SR	Societal risk
STEL	Short Term Exposure Limit
STIs	Satellite Training Institutes
T&CP	Town and Country Planning
TNA	Training Need Assessment
TOT	Training for Trainers
TPIA	Third Party Inspection Agency
TREMCARD	Transport Emergency Card

## References

1. Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 made under Environment (Protection) Act 1986 as amended in 2000, MOEF, GOI.
2. A Guide to Manufacture, Storage and Import of Hazardous Chemicals Rules 1989: Hazardous Substances Management Division, Ministry of Environment & Forests, Gol, 1992
3. Chemical Accidents (Emergency Prevention, Preparedness and Response) Rules 1996 made under Environment (Protection) Act 1986, MOEF, GOI
4. International Labour Organisation (ILO), 1993: Major Hazard Control - A Practical Manual.
5. National Guidelines on Chemical/Industrial Disaster Management, NDMA, GOI, April 2007.
6. National Guidelines on Incident Response System, NDMA, GOI, July 2010.
7. National Action Plan on Chemical (Industrial) Disaster Management (NAP-CIDM), NDMA and MoEF&CC, GOI, Disaster Management Institute, January 2015.
8. State Crisis Plan, Director Industrial Safety & Health, Labour, Skill Development and Employment Department, Gujarat Govt, March 2022.

## EXECUTIVE SUMMARY

State Crisis Plan (Chemical Disaster Management Plan), will be abbreviated as SCP-CDMP in the report, is a document which provides overall hazards status, preparedness, planning and mitigation measures for Chemical Disaster Management in the State of Gujarat. Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, Chemical Accidents (Emergency Preparedness, Planning and Response) Rules, Disaster Management Act, other related regulations and NDMA guidelines are the base of the whole plan.

The plan has twelve chapters supported with maps, charts, annexure and appendix.

The basic objectives and scope of the SCPCIDMP are discussed in first chapter.

Second Chapter deals with the status of hazards in the state of Gujarat. Distribution of MAH units and industrial estates in the state. The chapter deals with the approach how to make inventory of hazardous chemicals in the state district wise.

Consequence modeling of Chemicals release due to Accident or Disasters is important for chemical emergency management. The modeling of chemical releases is discussed in third chapter and how the input parameters can influence the end point of impacts zones have been discussed with examples. The overlays on maps have also shown to project the display of physical and environmental receptors spatially.

Capacity development is an important component of SCP-CDMP, the various aspects and targets for capacity development are discussed in fourth chapter.

Chapter fifth discusses the national, state and district organizational structures for response and relief including mitigation and preparedness. Various DCGs, LCGs and their constitution have been given here. The relief measures are highlighted in brief. State Crisis Group includes state level experts nominated by state of Gujarat. NDMA guidelines also guide this chapter.

The Medical Management Plan is imperative at the time of disasters, the sixth chapter deals with antidotes of some hazardous chemicals including the contact details of hospitals.

The principles of Risk Treatment and Prevention/Mitigation are discussed in the seventh chapter.

Transportation of hazardous material and their management during transportation in the light of CMVR 1989 has been dealt in detail in eight chapter.

Media management is very important and critical, some tips of inter face with media are given in ninth chapter.

Improvement in On-site and Off-site Emergency Management Plans is suggested in chapter tenth based on NDMA guidelines.

State Disaster Management Authority (SDMA) / State Executive Committee (SEC) with respect to State Crisis Group have been discussed based on the relevant regulations in the eleventh chapter. Some suggestions to state govt. are also recommended for integrated disaster management.

Chapter twelve discusses the functional plans, functional plans are like work book and are very important for SCP-CDMP.

Annexure, maps, charts are with the respective chapters while additional more information is given in Appendix in last.

**Constitution of State Crisis Group, Gujarat State**  
**State Crisis Group (SCG) has been constituted by State Govt of Gujarat as per the provisions of the**  
**Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996**

1.	Chief Secretary	Chair Person
2.	Additional Chief Secretary/Principal Secretary, Labour ,Skill Development and Employment Department	Member Secretary
3.	Principal Secretary, Forest & Environment Dept.	Member
4.	Secretary, Health & Family Welfare dept.	Member
5.	Principal Secretary, Industries & Mines Dept.	Member
6.	Secretary (Transport), Home department.	Member
7.	Secretary (Water Supply), Narmada Water resources and Water Supply Department.	Member
8.	Director General and Inspector General of Police, Police Bhavan, Gandhinagar.	Member
9.	Chairman, Gujarat Pollution Control Board, Gandhinagar	Member
10.	Director Industrial Safety & Health.	Member
11.	Chief Fire Officer, Ahmedabad Municipal Corporation, Ahmedabad	Member
12.	Additional Chief Executive Officer, Gujarat State Disaster Management Authority, Gandhinagar.	Member
13.	Experts (Industrial Safety & Health) nominated by the State Government 1. Atul Sawant, Head- HSE, Company: -Bayer Vapi Private Limited, M:9727745666 2. Vijay Asar, Chief coordinator, Disaster prevention and management centre (DPMC), Ankleshwar, Dist. Bharuch, M: 9825078221, 02646-220229 3. Vishnu Shankar Mishra , Chief (Safety & Fire service), M:.9979853450 4. Babubhai Mahadevbhai Desai, Industrial Environment and Management from MGLI, M: 9909980431 5. Sauhard Rawat, Head Safety, IFFCO, Kandla, M:. 9979718333 6. Devendra Thakur, AGM Safety & Health, Tata Chemicals Limited, Mithapur 361345, M:.6355239040 7. Nitin Varade, DGM-HSE, Dorf ketal industries, Mundra, M:.9637681288 8. Prabhanjan Dixit, VP & Head –HSEF, Nayara Energy Ltd., Jamnagar M:. 9909908685 9. Sunilkumar, Head Safety, Reliance Industries Ltd. Jamnagar, M: 9766586727 10. Shrey Bansibhai Patel, Chartered Chemical Process Engineer, Ahmedabad, M: 9909950916	Member
14.	One representative from the industries to be nominated by the State Government. Natwarlal Patel (Managing Director) Meghmani Organics Limited, Mobile no.:-9825006833	Member

# Chapter – 1

## Introduction

### 1.1 Introduction

Chemical disasters disrupt progress and destroy the hard-earned fruits of painstaking developmental efforts, often pushing nations, in quest for progress, back by several decades. Thus, efficient management of chemical disasters, rather than mere response to their occurrence, has in recent times, received increased attention both within Gujarat and Country. This is as much a result of the recognition of the increasing frequency and intensity of chemical disasters, as it is an acknowledgement that good governance in a caring and civilised society, needs to deal effectively with the devastating impact of chemical disasters. State of Gujarat has made an action plan to reinforce the off-site plans prepared by all the district crisis groups; copies of such plans should be available at the State control room. All off-site plans should be based on on-site plans of hazardous industries of the district. It is also presenting a *policy frame work* for continuous emergency preparedness in Gujarat.

### 1.2 Objectives

The main objectives are as follows:

- Development hazards and risk inventory and zones of all hazardous districts.
- Consequence modelling for emergency planning.
- Respond to all the fire and chemical emergencies with minimum response time and contain the impact on people and environment.
- Assist and reinforce the first responders, the local and district crisis group in an emergency situation with resources and expertise.
- Reduce the risk of chemical and fire disasters through continuous emergency preparedness.
- Mitigate the impact of chemical and fire disasters on the community and environment through epidemiological and environmental management.
- Capacity development of all stakeholders of chemical disaster risk reduction.
- Suggest model for On-site and Off-site Emergency Management Plans

### 1.3 Action Plan

This is an action plan to achieve the above objectives. The action plan consists of following steps:

- Action plan for the development of hazards and risk inventory and zones of the whole state through all hazardous districts;
- State-level mechanism for directing and assisting district and local-level crisis groups (first responders);
- Establish a chain of command and coordination for directing emergency response at the state level;
- Identify, access and augment primary facilities and resources for immediately responding the emergencies;
- Assess operational requirements for emergency response, and organize reinforcement through the resources of state, private sector and non-governmental agencies;
- Development of action plan for capacity development of all stakeholders;
- Development of Functional sub-plan for management of on-site and off-site emergency;

- Possibility of linkages with Disaster Management Act for effective management of chemical and industrial disasters.

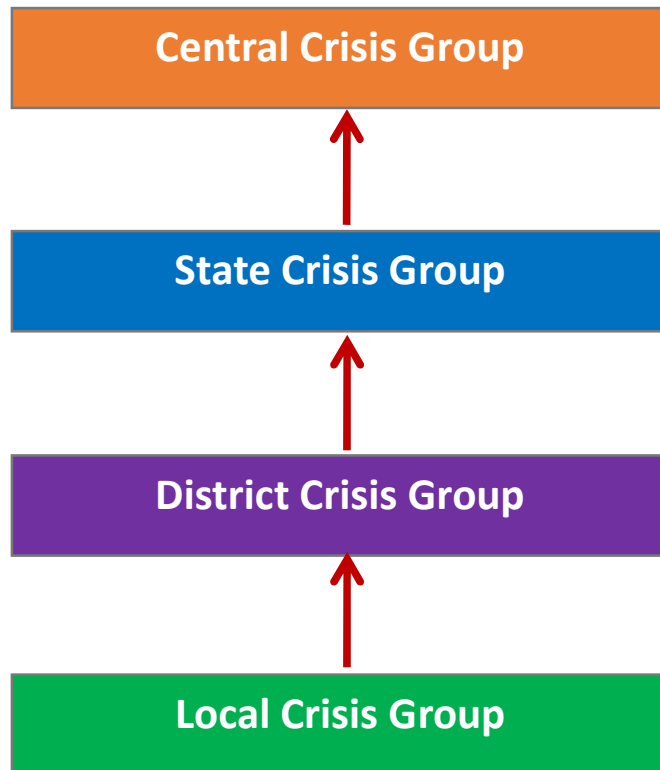
#### **1.4 Policy Framework**

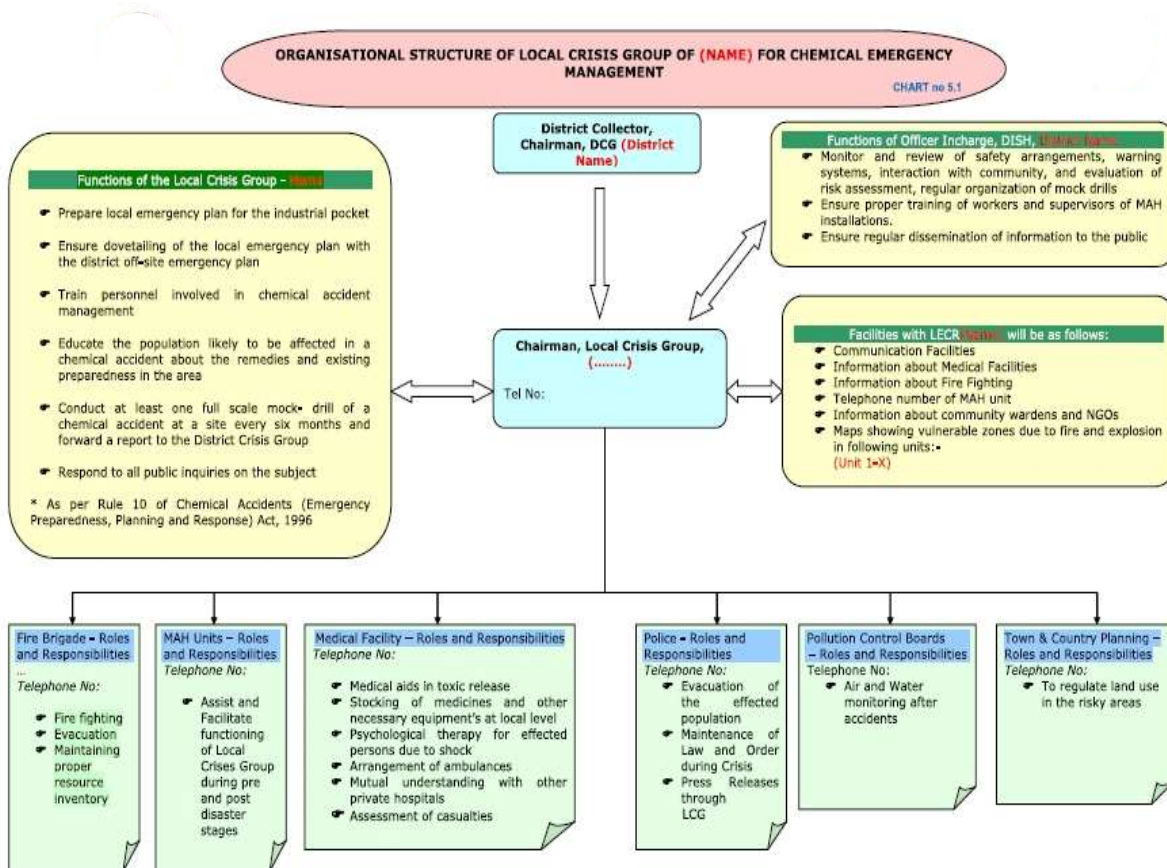
The document reviews and upgrades the level of emergency preparedness in the state through following steps:

- Development of mechanism for the development of hazards and risk inventory and zones of the whole state through all hazardous districts based on NDMA guidelines.
- A mechanism for the review of the chemical and fire emergency preparedness programs periodically.
- Evolve appropriate organizational and institutional mechanisms for monitoring of chemical and industrial safety processes and storage in the state.
- Introduce modern & upgraded technology and protocols for both On-site and Off-site industrial Emergency and chemical safety.
- Set up an effective state communications and training capabilities for fire, explosion and toxic release emergencies in chemical and industrial accidents.
- Disseminate information about the chemical hazards among communities following a right-to-know approach.
- Mechanism to ensure the capacity development of all stakeholders.

## **Crisis Management Structure**

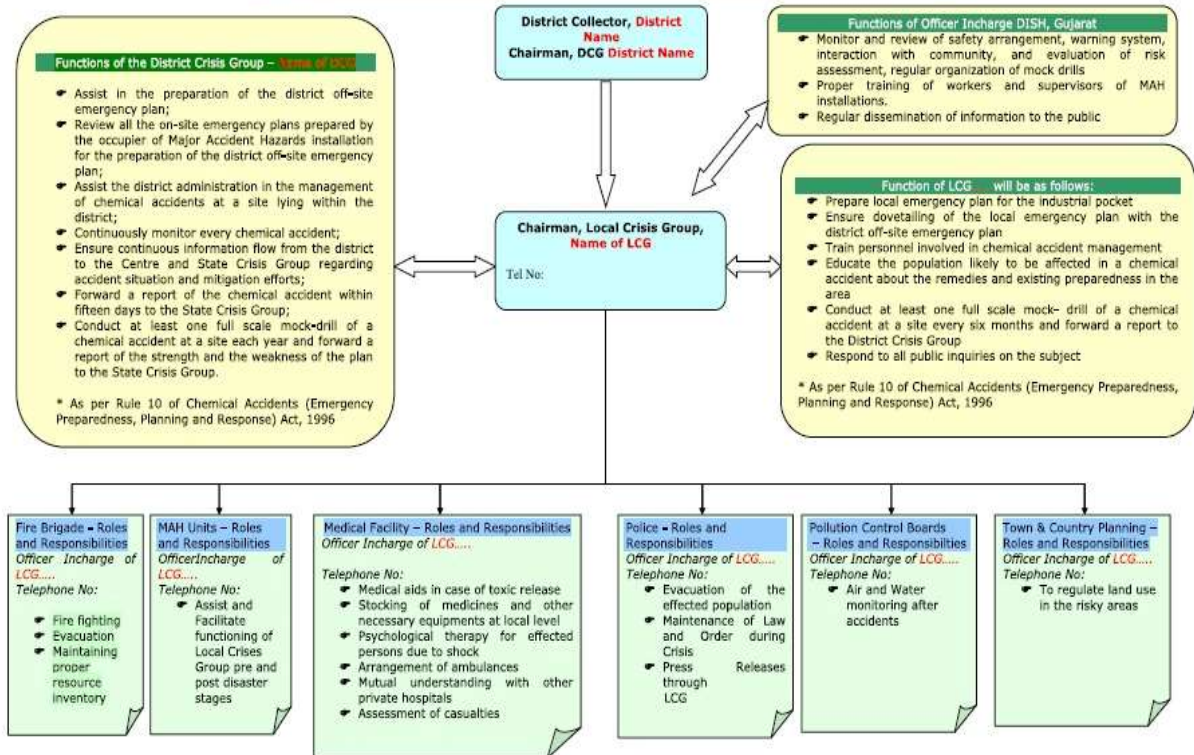
- According to industrial disaster risk, various steps has been taken under the provisions of the Emergency Planning, Preparedness and Response Rules, 1996. The effective functioning of local crisis group, District Crisis Group and State Crisis Group is essentials for responses mechanism and resource mobilization during industrial accidents.





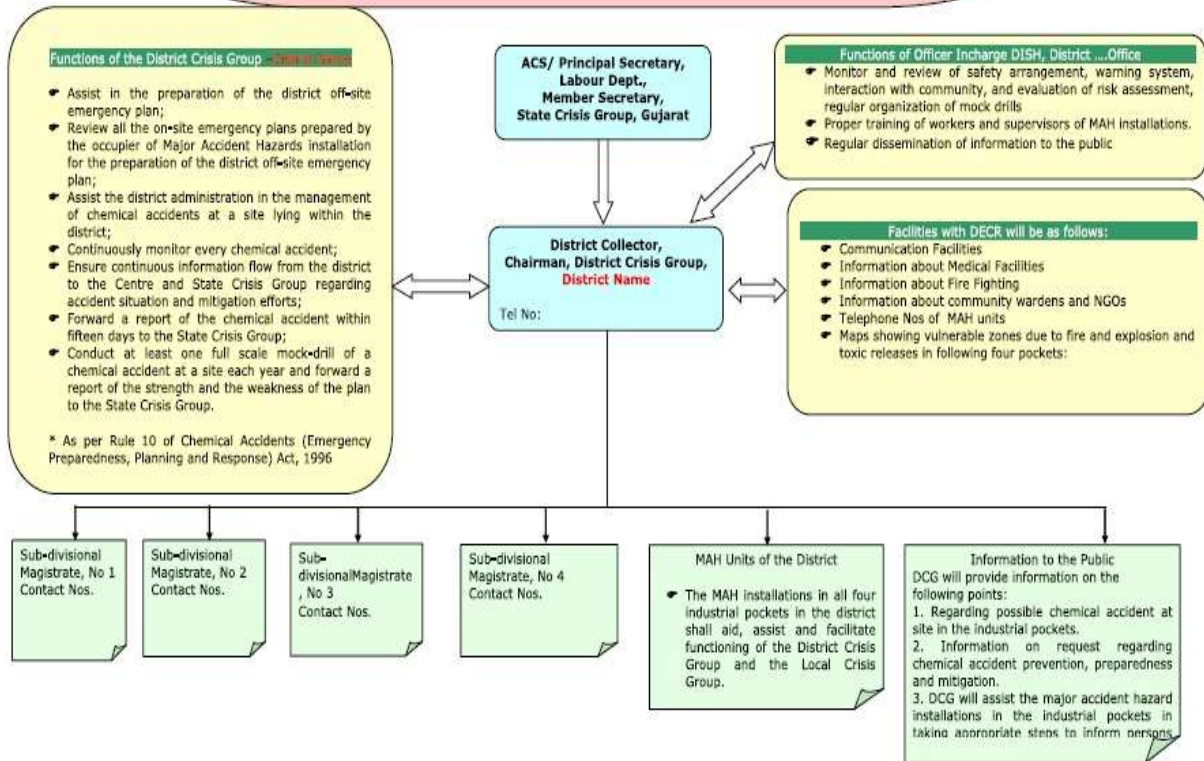
**ORGANISATIONAL STRUCTURE OF DISTRICT CRISIS GROUP OF (NAME of District) FOR CHEMICAL EMERGENCY MANAGEMENT**

CHART no 5/2



**ORGANISATIONAL STRUCTURE OF Gujarat STATE CRISIS GROUP OF FOR CHEMICAL EMERGENCY MANAGEMENT**

CHART no 54



## 1.5 Functions of State Crisis Group

- The State Crisis Group is the apex body in the State to deal with major chemical accidents and to provide expert guidance for handling major chemical accidents and the State Crisis Group shall:-
- review all district Off-site emergency plans in the State with a view to examine its adequacy in accordance with the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules and forward report to the Central Crisis Group once in three months;
- assist the State Government in managing chemical accidents at a site;
- assist the State Government in the planning, preparedness and mitigation of major chemical accidents at a site in the State;
- continuously monitor the post-accident situation arising out of a major chemical accident in the State and forward a report to the Central Crisis Group;
- review the progress report submitted by the District Crisis Groups;
- respond to queries addressed by the District Crisis Groups;
- publish a list of experts and officials in the State who are concerned with the management of chemical accidents.

## 1.6 Scope

The document is applicable to all the industrial, chemical and other installations in Gujarat, which can potentially create major chemical accidents.

It will be of special importance to:

- The local and district crisis groups, industrial estates, and factory management in dealing with all the issues related to risk reduction and safety management.
- All departments have representation in the State-level Crisis Group, including NGOs and the private sector.
- All the departments have representation in the Central Crisis Group, which would be called upon to provide resources and expertise in dealing with the emergency situation.
- All the process safety professionals, emergency medicine practitioners, and environment rights groups, who are concerned with the risk reduction and safety measures.
- Gujarat State Disaster Management Authority (GSDMA) and Gujarat Institute of Disaster Management (GIDM).

## 1.7 Regulatory importance of the document:

The document derives its authority from the following acts and rules:

- a) The Environment (Protection) Act, 1986 (amended 1991) and following Rules there under:
  - ▶ Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended
  - ▶ Chemical Accidents (Emergency Planning, Preparedness and Response) {CA(EPPR)} Rules, 1996
  - ▶ The Environment (Protection) Rules, 1986 (amended 2004).
  - ▶ The Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008.
  - ▶ The Environment Impact Assessment Notification, 2006.
  - ▶ Bio-medical Wastes (Management and Handling) Rules, 1989 and further amendments.

- b) The Factories Act, 1948 as amended
  - ▶ State Factory Rules
- c) The Inflammable Substances Act, 1952
- d) The Motor Vehicles Act, 1988 as amended
  - ▶ The Central Motor Vehicles Rules, 1989 as amended.
- e) The Petroleum Act, 1934
  - ▶ The Petroleum Rules, 2002
- f) The Insecticide Act, 1968 as amended
  - ▶ The Insecticide Rules, 1971 as amended
- g) The National Green Tribunal Act, 2010
- h) Gujarat State Disaster Management Act, 2003
- i) The Explosives Act, 1884 as amended.
  - ▶ The Explosives Rules, 1983 as amended.
  - ▶ The Gas Cylinder Rules, 2004.
  - ▶ The Static and Mobile Pressure Vessels (Unfired) Rules, 1981 as amended.
- j) Merchant Shipping (Carriage & Cargo) Rules – 1955
- k) The Dock Workers (Safety, Health & Regulation) 1990
- l) The prevention of Terrorism Act – 2002
- m) Petroleum and Natural Gas Regulatory Board (PNGRB) Act 2006
  - ▶ Emergency Response and Disaster management Regulation 2010 under PNGRB Act 2006

The Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996 and Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 are driving force for Chemical and Industrial disaster/emergency management. These rules also provide a statutory back-up for setting up of Crisis Groups in Local Industrial Pockets, districts and states which have Major Accident Hazard (MAH) installations. The rules define the major accident hazard installations to include industrial activity, transport and isolated storages at a site handling hazardous chemicals in specified quantities. The Disaster Management Act 2005 mandates every state and department to make disaster management plan.

## **1.8 Key agencies responsible to manage disasters**

The primary responsibility for dealing with chemical and industrial emergencies lies with the following agencies:

1.8.1 The following Government of India Ministries, authorities or agencies are linked with chemical disaster management:

- The Ministry of Environment, Forest and Climate Change (MOEF&CC) has been designated as the nodal ministry for chemical accidents.
- National Disaster Management Authority (NDMA) as national authority.
- Petroleum and Natural Gas Regulatory Body (PNGRB) looks safety for midstream and downstream oil and gas industries

- Petroleum and Explosive Safety Organization (PESO) overall petroleum rules and explosive act enforce by PESO.
- Directorate General of Factory Advice Services and Labour Institute (DGFASLI), is the apex organization to coordinate with state DISH offices.

1.8.2 The following State authorities or agencies are linked with chemical disaster management:

- Gujarat State Disaster Management Authority
- Director Industrial Safety & Health
- Gujarat Pollution Control Board

## 1.9 Definitions

The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996 & Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 framed by the Ministry of Environment, Forest & Climate Change (MoEF&CC) provide following definitions, which may be important in the context of the plan:

**"Chemical accident"** means an accident involving a fortuitous, or Sudden or unintended occurrence while handling any hazardous chemicals resulting in continuous, intermittent or repeated exposure to death, or injury to, any person or damage to any property but does not include an accident by reason only of war or radio-activity.

**"Major chemical accident"** means – an occurrence including any particular major emission, fire or explosion involving one or more hazardous chemicals and resulting from uncontrolled developments in the course of industrial activity or transportation or due to natural events leading to serious effects both immediate or delayed, inside or outside the installation likely to cause substantial loss of life and property including adverse effects on the environment;

### **Hazardous Chemical means**

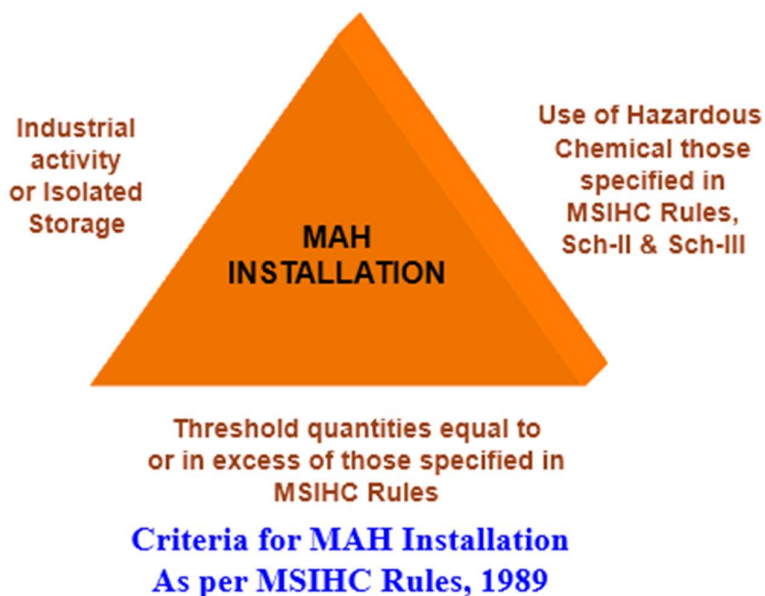
- (i) any chemical which satisfies any of the criteria laid down in Part I of Schedule 1 or is listed in Part 2 of the said schedule;
- (ii) any chemical listed in Column 2 of Schedule 2;
- (iii) any chemical listed in Column 2 of Schedule 3.

**Industrial Activity includes** an operation or process:

- (i) carried out in an industrial installation referred to in Schedule 4 involving or likely to involve one or more hazardous chemicals;
- (ii) on-site storage or on-site transport which is associated with that operations or process as the case may be;
- (iii) isolated storage
- (iv) pipeline

**Isolated Storage** means storage of a hazardous chemical other than storage associated with an installation on the same sites pacified in Schedule-4 where that storage involves at least the quantities of that chemical set out in Schedule-2.

**Major Accident Hazards (MAH) Installations** means isolated storage and industrial activity at a site, handling (including transport through carrier or pipeline) of hazardous chemicals equal to or, in excess of the threshold quantities specified in column 3 of Schedules 2 and 3 respectively of MSIHC Rules 1989.



#### 1.10 Glossary of Key Terms used in Industrial and Chemical Emergencies:

**Acute exposure:** A sudden single exposure

**Chronic exposure:** A continuous or recurrent exposure over an extended period of time

**Classification of emergencies:** Emergencies can be categorized into three broad levels on the basis of seriousness and response requirements, namely: –

(a) **Level 1:** This is an emergency or an incident which-

- i) can be effectively and safely managed, and contained within the site, location or installation by the available resources;
- ii) has no impact outside the site, location or installation.

(b) **Level 2:** This is an emergency or an incident which –

(i) cannot be effectively and safely managed or contained at the location or installation by available resource and additional support is alerted or required;

(ii) is having or has the potential to have an effect beyond the site, location or installation and where external support of mutual aid partner may be involved;

(iii) is likely to be danger to life, the environment or to industrial assets or reputation.

(c) **Level 3:** This is an emergency or an incident with off-site impact which could be catastrophic and is likely to affect the population, property and environment inside and outside the installation, and management and control is done by district administration. Although the Level-III emergency falls under the purview of District Authority but till they step in, it should be responsibility of the unit to manage the emergency. (Note: Level-I and Level-II shall normally be grouped as onsite emergency and Level-III as off-site emergency).

**Consequence:** Result of specific event, without consideration of exposure.

**Criterion:** An agreed reference on which a decision or judgement is based.

**Danger:** A popular expression covering the subjective perception of hazard or risk.

**Disaster:** Means a catastrophe, mishap, calamity or grave occurrence in any area, arising from natural or man-made causes, or by accident or negligence which results in substantial loss of life or human suffering or damage to, and destruction of property, or damage to, or degradation of environment, and is of such a nature or magnitude as to be beyond the coping capacity of the community of the affected area.

**Disaster Management Plan:** Means a well-coordinated, comprehensive response plan to contain loss of life, property, environment and provide speedy and effective recovery by making the most effective use of available resources in case of a disaster;

**Dose:** Quantity of an agent absorbed over a specified period of time.

**Effect:** Immediately or delayed result of an exposure.

**Event:** The realization of a hazard.

**Exposure:** State of a specific target being open and vulnerable to the consequence of an event.

**Frequency:** An expression of how often a considered occurrence takes place in a given time.

**GSDMA:** Gujarat State Disaster Management Institute

**Hazard:** An inherent property of a substance, agent, and source of energy or situation having the potential of causing undesirable consequences and/or effects.

**Hazard study:** (equivalent terms: **hazard survey, hazard analysis**, etc.) Identification of individual hazards of a system, determination of the mechanisms by which they could give rise to undesired events, and evaluation of the consequences of these events.

**Individual risk:** Risk to which an individual person within a specific population is subjected.

**Incident Response Team:** Incident Response Team as defined in NDMA guidelines

**Major hazard:** A hazard having the potential of causing a major accident; i.e., a major emission, a fire or an explosion which leads to considerable social disruption as the result of serious adverse effects on the following targets:

- Death, severe intoxication injuries requiring extended hospitalization of number of people and/or
- Significant damage to property, animals, crops or plants, or significant contamination of water, soil or air, with considerable economic impact.

**NDRF:** National Disaster Response Force

**Probability:** An expression of the chance that a considered occurrence will take place

**Reliability:** An expression of the ability of:

- numerical data or assumptions to be a true representation of the required parameter
- methods and procedures to be able to give, for the circumstances of the case, the result that is required of them
- Equipment and people to perform the function that is required of them.

**Residual risk** the risk still remaining after the implementation of risk management.

**Risk** the combination of a stated effect and its probability of occurring.

**Risk analysis** the procedure to identify risk by combining the results of a hazard study with the probabilities of the events considered and their effects

**Risk assessment:** The value judgment of the significance of the risk identified by a risk analysis taking into account all / any relevant criteria.

**Risk management:** The whole of actions taken to achieve and maintain the safety of an installation and its operation.

**Safety:** A situation without risks.

**Societal risk:** Risk to which a defined group/number of persons within a specific population is subjected simultaneously.

**State Crisis Plan (Chemical Disaster Management Plan) (SCP-CIDM):** The present plan

**SDRF:** State Disaster Response Force

**Uncertainty:** An expression of the doubt about numerical data, an assumption, or the result of a method.

\*\*\*\*

## Chapter – 2

### Hazards Identification and Risk Assessment

#### 2.1 Introduction

Hazard identification and risk assessment, in the context of State Crisis Plan, is a tool used for risk management to evaluate hazards and risks and thereby formulate and prioritise prevention and control strategies. This enables risks to be ranked on a relative scale and technical, organizational and policy options to be suitably evaluated in order to maximally enhance safety. Risk assessment also provides information to the civil administration to help them develop risk acceptability or tolerability criteria against which different objectives or programmes can be assessed. While undertaking risk assessment, the following are making an integral part of whole process:

- relevant regulations
- the objective/purpose of the risk assessment;
- the estimated nature of the risk;
- the availability and adequacy of data;
- the expertise and resources needed and available for a particular approach/method;
- the history of incidents at the installation and other related installations;
- unavoidable constraints on the process;
- the socio-political context in which the assessment will be carried out; and
- the assumptions on which the approach/method is based.

#### 2.2 Identification of Hazards

According to MSIHC Rules of 1989 as amended in 2000 (Schedule 1; Rules 2e(i), 4(1), 4(2), 17 and 18) of Environment (Protection) Act 1986, the following criteria for categorizing the hazard potential of chemicals have been utilized:

(a) *Toxic Chemicals*: Chemicals with the following values of acute toxicity, which owing to their physical and chemical properties, are hazardous to human (and animal) life/health:

Sr.No.	Toxicity	Oral toxicity LD <sub>50</sub> (mg/Kg)	Dermal toxicity LD <sub>50</sub> (mg/Kg)	Inhalation toxicity LC <sub>50</sub> (mg/l)
1.	Extremely toxic	> 5	<40	< 0.5
2.	Highly toxic	>5-50	>40-200	< 0.5 - 2.0
3.	Toxic	>50-200	> 200-1000	>2-10

(b) Flammable Chemicals:

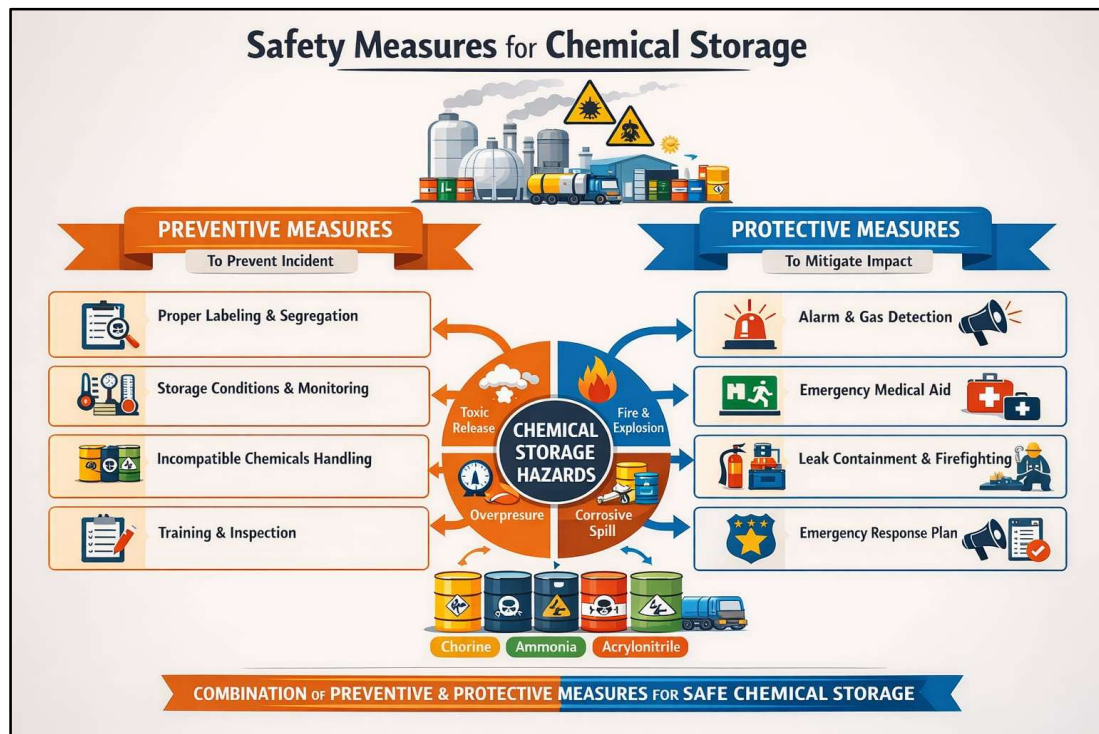
i.) Flammable gases: Gases, which at 20°C and at standard pressure of 101.3 KPa are:

- a. ignitable when in a mixture of 13 percent or less by volume with air, or
- b. have a flammable range with air of at least 12 percentage points from the lower flammable limits, whichever that is for the particular chemical

- ii. Extremely flammable liquids: chemicals which have a flash point lower than or equal to 23°C and boiling point less than 35°C.
  - iii. Very highly flammable liquids: chemicals, which have a flash point lower than or equal to 23°C and initial boiling point higher than 35°C.
  - iv. Highly flammable liquids: chemicals which have a flash point lower than or equal to 60°C but higher than 23°C.
  - v. Flammable liquids: chemicals which have a flash point higher than 60°C but lower than 90°C
- (c) Explosives: An explosive means a solid, liquid, gaseous pyrotechnic substance (or a mixture of substances) or an article:
- i. which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings;
  - ii. which is designed to produce an effect by heat, light, sound, gas or smoke or a combination of these, as the result of non-detonative, self-sustaining, exothermic chemical reaction.

An occupier who has control of an industrial activity and is categorised as MAH unit has to provide evidence to show that he has, -

- (a) identified the major accident hazards; and
- (b) taken adequate steps to -
  - (i) prevent such major accidents and to limit their consequences to persons and the environment;
  - (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety.





For Example,

Chemical storage hazard	Process hazard (Unit process & unit operations)
<ul style="list-style-type: none"> <li>➤ Toxic exposure hazard chemicals</li> <li>➤ Flammable hazard chemicals</li> <li>➤ Explosive hazards</li> </ul>	<ul style="list-style-type: none"> <li>➤ Explosion in process equipment</li> <li>➤ Runaway reaction</li> <li>➤ Thermal decomposition</li> <li>➤ Over pressure in reactor / vessel</li> <li>➤ Over heating of process equipment</li> <li>➤ Mixing of incompatible chemicals</li> <li>➤ Flammable solvent distillation</li> <li>➤ Vapour cloud explosion</li> <li>➤ Dust explosion</li> <li>➤ Equipment failure due to mechanical integrity</li> </ul>

### 2.3 An overview of the hazardous Industrial scenario

Gujarat, one of the most industrialized states in the country, is known for its large concentration of chemical industries, particularly, in a stretch of about 360 kilometres from Ahmedabad to Vapi, known as the 'Golden Corridor'. In Bharuch district, Ankleshwar situated on the Narmada estuary, is Asia's largest chemical zone.

The findings of oil and gas in Ankleshwar and the surrounding areas led to the Gujarat Refinery. The major hydrocarbon manufacturing plants are located in Vadodara, Bharuch, Surat and Jamnagar districts. These include Gujarat Refinery, Indian Petrochemicals Ltd. (at present RIL), Reliance Industries, Nayara Energy and Gujarat State Fertilizer Co. LNG, etc along with several downstream units. A large number of medium and small-scale

chemical industries are located in various industrial estates of Vapi, Ankleshwar, Panoli, Nandesari, Vatva, Naroda, etc. which produce numerous organic chemicals for consumption in the country and for exports.

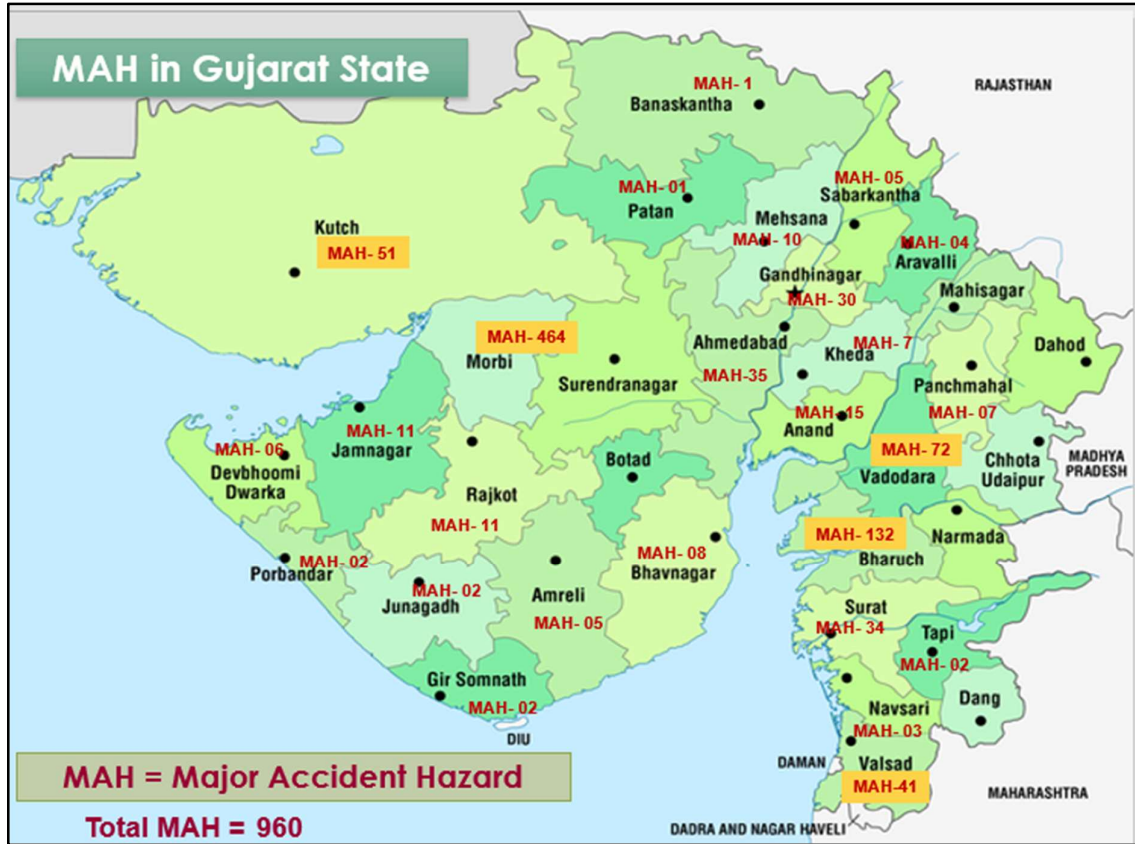
Gujarat has 1600 kilometres of coastline, which is being developed for ports. Considering the infrastructure proposed in the coastal areas, it is expected that port-based mega-chemical industrial estates would be developed mainly at Dahej, Pipvav, Hazira, Kandla, Mundra, Porbandar, etc. In addition to the manufacturing industries, there are several infrastructure related projects including pipelines, storages and installations for Hydro Carbons and chemicals. India's first major in-land cross-country gas pipeline named the Hazira-Bijapur-Jagdishpur (HBJ) pipeline originates from Hazira. It traverses the states of Madhya Pradesh, Rajasthan and Uttar Pradesh. Although, originally, 1,700 Km of pipeline was laid, subsequent extensions and spur lines were added increasing the length to over 2,300 km. Gujarat State Petroleum Corporation and Gujarat Gas Ltd. are also developing gas pipeline network in the state. Gas Authority of India (GAIL) has laid Jamnagar-Loni pipeline for carrying LPG. Major LNG terminals in operation at Pipvav, Dahej and Hazira, which would necessitate laying of long cross-country pipelines for carrying natural gas. More than 50% of country's imported crude oil is being handled by the ports of Gujarat. The crude oil carrying pipelines include Salaya-Mathura, Viramgam-Vadodara, and those proposed from Mundra to Punjab. The petroleum products carrying pipelines include Vadodara-Sabarmati, Kandla-Bhatinda and Jamnagar-Kandla (off-shore).

There are several port-based installations for petroleum products, petrochemicals products, solvents and other hazardous chemicals at Kandla, Mundra, Vadinar, Porbandar, Dahej, Pipavav, and Hazira. Some of these locations are in earthquake/ and cyclone prone zones. There are isolated storages in different regions, including petroleum storages and LPG bottling plants at Vadodara, Kheda, Sanand, Bavla, Rajkot and Bhavnagar. Hence coordination for quick response should be strengthened by way of coordination with NDMA and NDRF at the time of natural disasters.

**2.4 Location wise Classification of Hazardous Industries and industrial estates:**

The status of 960 MAH industries in different district is given in Table

**Table : District Wise no. of MAH Industries in Gujarat State**



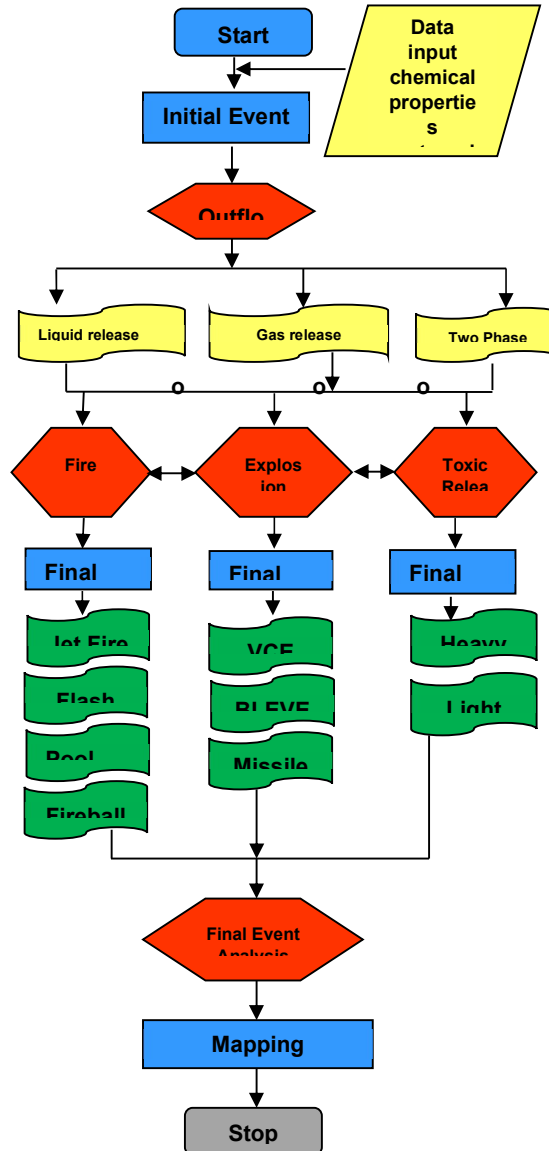
District-wise MAH factories are given as Appendix -1. Nineteen industrial estates have been identified as per Table

**Industrial estates district wise**

<b>Sr. No.</b>	<b>Industrial estates</b>	<b>District</b>
1	Ankleshwar	Bharuch
2	Dahej	
3	Jhagadia,	
4	Villayat	
5	Panoli	
6	SAYKHA	
7	Nandesari	Vadodara
8	Petrochemical Complex	
9	Ranoli	
10	Naroda	Ahmedabad
11	Vatva	
12	Odhav	
13	Sachin	Surat
14	Sarigam	Valsad
15	Vapi	
16	Jamnager	Jamnagar
17	Kandla port	Kutchh
18	Separ,metoda	Rajkot
19	Porbandar	Porbandar

## 2.5 Event Scenario Assessment; Consequence Assessment

Event scenario and consequence assessment for any accidental release scenario depends on several factors viz., physical and chemical properties, inventory, storage temperature and pressure, meteorological and topographical conditions, etc. For flammable materials, consequences on living organisms and structures are studied in terms of heat radiation and overpressures. In case of toxic chemicals, concentration and dose-response relationship are used. For a quick reference to trace the behaviour of released chemical an illustration is given in Fig 2.1



**Fig 2.1: Behaviour of a released chemical**

The three principal types of hazards encountered are fire, explosion, and toxic release, and may expose both people and the environment to risk.

### 2.5.1 Fire

Fire occurs in industry more frequently than explosions and toxic releases. However, the consequences in terms of loss of life are generally less. The effects of fire on people usually take the form of skin burns due to exposure to thermal radiation. The severity of burns depends on the duration of exposure and the intensity of the heat. Heat radiation is inversely proportional to the square of the distance from the source.

Fire also gives off fumes, which may include toxic gases. For example, combustion of polyurethane foam gives off cyanides.

Fire can cause severe damage to physical structures either by combustion or by the effects of heat. It may also have an effect on essential services with damage to power and instrumentation, possibly causing an escalation of the incident

Fire can take several different forms including:

**Jet fires:** a long, narrow flame produced, for example, from an ignited gas pipeline leak.

**Pool fires:** produced, for example, by the ignition of crude oil released from a storage tank in to a bund wall.

**Flash fires:** rapid, virtually instantaneous, ignition which could occur if an escape of gas reaches sources of ignition rapidly burnt back to the source of the release.

**BLEVEs:** Boiling Liquid Expanding Vapour Explosions (BLEVE), sometimes called a 'fireball' – a combination of fire and explosion with an intense emission of radiant heat following failure of a pressure vessel due to overheating of the tank wall surrounding the vapour space.

### 2.5.2 Explosion

Explosions are characterized by a shock wave which can be heard as a bang. The shock-wave can cause damage to buildings and people can be blow over. Although the effects of over-pressure can be fatal, the indirect effects of collapsing buildings, flying glass and debris cause far more loss of life and severe injuries. Explosions can be of a number of types:-

**Gas explosions** occur when considerable quantities of flammable gases are released and mix with air to form an explosive vapour cloud before ignition takes place.

**Vapour cloud explosions** can be either confined such as those which occur within some form of containment (e.g., vessels, pipe work), or in less obvious situations (e.g. between buildings), or unconfined occurring within the open air.

**Dust explosions** occur when solids in the form of very fine powder are intensively mixed with air and subsequently gets source of ignition.

### 2.5.3 Toxic release

Sudden releases of toxic vapours have the potential to cause death and severe injuries at a much greater distance. In theory, such a release could produce lethal concentrations at several kilometres from the point of release. In practice, the actual number of casualties depends on the meteorological conditions, density of population in the path of the cloud, and the effectiveness of the emergency arrangements.

Toxic materials can also be carried considerable distances by water. Their release into the public sewerage system, or into rivers, canals and other water courses, either directly or through contaminated water used in fire fighting can result in serious threats to public health.

## 2.6 Consequences parameter

The various vulnerable limits for heat, over pressure and toxic concentration, as defined by world bank and Indian standard (IS: 15656: 2006), should be used in various types of the incidence of fire explosion and toxic release. These all limits should be overlay on the map of the industry layout / industrial estate layout to project the impact zones. These impact zones for emergency planning are of great concern for both On-site and Off-site issues. Since, these impact parameters are not notified in any one of the regulations, hence, it is recommended that these impact parameters with effects should be notified through a notification and these impact zones and these values should be used for the review of On-site and Off-site emergency management plans. The Tables 2.3 to 2.6 are suggested to be included in On-site/Off-site emergency management plans for the benefit of the responders within the plant and outside the plant. The integrated impact zones should be used as suggested in Fig 2.2. SCP-CIDMP has a Chapter 3 to deal in detail on consequence modelling with overlay maps.

Table 2.3: Effects of Heat Radiation

Heat Radiation (kW/m <sup>2</sup> )	Effect
1.2	<ul style="list-style-type: none"> <li>Received from the sun at noon in summer</li> </ul>
2.1	<ul style="list-style-type: none"> <li>Minimum to cause pain after 1 minute</li> </ul>
4.0 (Blue zone)	<ul style="list-style-type: none"> <li>Will cause pain in 15-20 seconds and injury after 30 seconds' exposure (at least second degree burns will occur)</li> </ul>
12.5 (Orange zone)	<ul style="list-style-type: none"> <li>Significant chance of fatality for extended exposure. High chance of injury.</li> <li>Causes the temperature of wood to rise to a point where it can be ignited by a naked flame after long exposure.</li> <li>Thin steel with insulation from the fire may have thermal stress level which is high enough to cause structural failure.</li> </ul>
23	<ul style="list-style-type: none"> <li>Likely fatality for extended exposure and chance of fatality for instantaneous exposure.</li> <li>Spontaneous ignition of wood after long exposure.</li> <li>Unprotected steel will reach thermal stress temperatures, which can cause failure.</li> <li>Pressure vessel needs to be relieved or failure would occur.</li> </ul>
35	<ul style="list-style-type: none"> <li>Cellulosic material will pilot ignite within one minute's exposure.</li> <li>Significant chance of fatality for people exposed instantaneously.</li> </ul>
37.5 (Red zone)	<ul style="list-style-type: none"> <li>Sufficient to cause damage to process equipment</li> </ul>

Table 2.4: Effects of Explosion Overpressure

Explosion Overpressure	Effect
3.5 kPa (0.5 psig) (Blue zone)	<ul style="list-style-type: none"> <li>90 % glass breakage</li> <li>No fatality and very low probability of injury</li> </ul>
7 kPa (1 psig)	<ul style="list-style-type: none"> <li>Partial demolition of houses, made uninhabitable</li> </ul>
14 kPa (2 psig)	<ul style="list-style-type: none"> <li>Partial collapse of walls and roofs of houses</li> </ul>
21 kPa (3 psig) (Orange zone)	<ul style="list-style-type: none"> <li>Heavy machines (3000 lb) in industrial building suffered little damage; steel frame building distorted and pulled away from foundations</li> </ul>

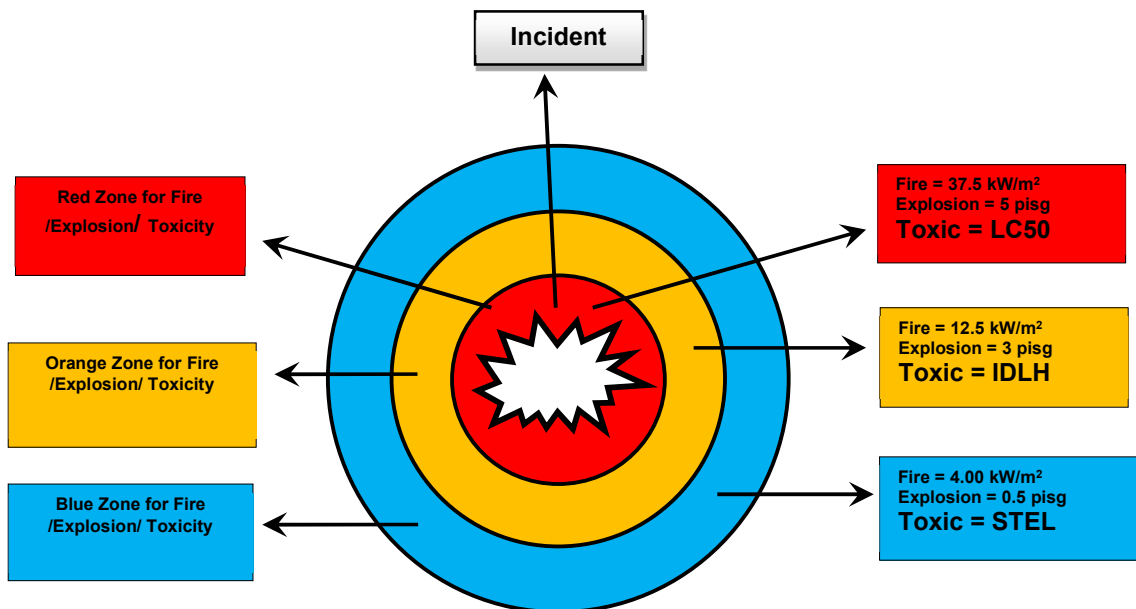
35 kPa (5 psig) (Red zone)	<ul style="list-style-type: none"> <li>Wooden utility poles snapped; tall hydraulic press (40,000 lb) in building slightly damaged</li> </ul>
70 kPa (10 psig)	<ul style="list-style-type: none"> <li>Probable total destruction of building ; heavy machine tools (700 lb) moved and badly damaged; very heavy machine tools (12000lb) survive</li> </ul>

**Table 2.5: Effects of Toxic Concentration Levels**

Concentration Level	Effect
Short -Term Exposure Limit (STEL) (Blue zone)	<ul style="list-style-type: none"> <li>Maximum concentration of the substance to which workers can be exposed for a period up to 15 minutes without suffering (a) Intolerable Irritation (b) Chronic or irreversible tissue change (c) narcosis of sufficient degree to increase accident proneness, impair self rescue, or materially reduce worker efficiency, provided that no more than 04 excursion per day are permitted, with at least 60 minutes between exposure periods, and provided that daily TLV is not exceeded. It should not be used to evaluate the toxic exposure upto 30 minutes</li> </ul>
Immediately Danger to Life and Health (IDLH) (Orange zone)	<ul style="list-style-type: none"> <li>An atmospheric concentration of any toxic, corrosive or asphyxiant substance that poses an immediate threat to life or would cause irreversible or delayed adverse health effects or would interfere with an individual's ability to escape from a dangerous atmosphere. If IDLH values are exceeded, all unprotected people must leave the area immediately. The maximum airborne concentration of a substance to which a worker is exposed for long as 30 minutes and still be able to escape without loss of life.</li> </ul>
Lethal Concentration at 50% mortality (LC50) (Red zone)	<ul style="list-style-type: none"> <li>LC stands for "Lethal Concentration". LC values usually refer to the concentration of a chemical in air but in environmental studies it can also mean the concentration of a chemical in water. For inhalation experiments, the concentration of the chemical in air that kills 50% of the test animals in a given time (usually half to four hours) is the LC value.</li> </ul>
Fatal Level	<ul style="list-style-type: none"> <li>Death</li> </ul>

**Table 2.6: Overlay on the Area to Know the Impact Zones**

RedZone			Orange Zone			BlueZone		
Fire	=	37.5 kW/m <sup>2</sup>	Fire	=	12.5 kW/m <sup>2</sup>	Fire	=	4.00 kW/m <sup>2</sup>
Explosion	=	5 psig	Explosion	=	3psig	Explosion	=	0.5psig
Toxic	=	LC <sub>50</sub>	Toxic	=	IDLH	Toxic	=	STEL



**Fig. 2.2: Limits of Hazard Zones for Fire, Explosion and Toxic Release**

**2.7 Special note for Toxicity**

Since consequence modeling software have inbuilt threshold level values for various toxicity and exposure. In general the TLV, STEL, AEGL-1, AEGL-2, AEGL3, ERPG 1, ERPG 2, ERPG 3, IDLH and LC50/LD50 are considered for emergency planning purposes, the brief write up about these toxic concentration levels is tabulated in Table no 2..7.

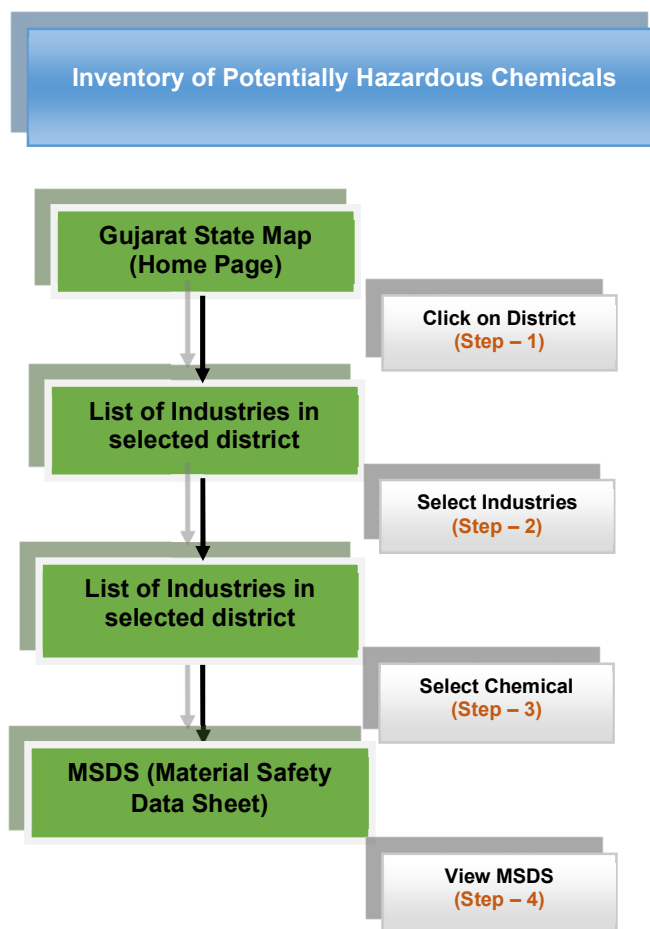
**Table no 2.7: Physical Impact of toxic concentration**

Concentration Level	Observed Effect
Threshold Limit Value (TLV)	Average concentration of the substance in ambient air for a normal 8 hour workday or 40 hour workweek, to which nearly all workers may be repeatedly exposed, day after day, without adverse effects.
Short -Term Exposure Limit (STEL)	Maximum concentration of the substance to which workers can be exposed for a period upto 15 minutes continuously without suffering from irritation, chronic tissue change, provided that no more than four exposures per day are permitted, with at least 60 minutes between exposure and that the daily TLV is not exceeded.
AEGL 1	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation or certain asymptomatic non sensory effect. However the effects are not disabling and are transient and reversible upon cessation of exposure
AEGL 2	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long lasting adverse health effects or an impaired ability to escape
AEGL 3	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life threatening health effects or death

ERPG 1	The Emergency Response Planning Guideline is toxic level of concentration which it predicts that the general population, including susceptible individuals, could experience notable discomfort, irritation or certain asymptomatic non sensory effect. However the effects are not disabling and are transient and reversible upon cessation of exposure.
ERPG 2	The Emergency Response Planning Guideline is toxic level of concentration which it predicts that the general population, including susceptible individuals, could experience irreversible or other serious, long lasting adverse health effects or an impaired ability to escape
ERPG 3	The Emergency Response Planning Guideline is toxic level of concentration which it predicts that the general population, including susceptible individuals, could experience life threatening health effects or death
Immediately Danger to Life and Health (IDLH)	It represents the maximum airborne concentration to which a healthy male worker can be exposed for as long as 30 minutes and still be able to escape without loss of life or irreversible organ system damage.
Lethal Concentration at 50% mortality (LC50)	Lethal concentration levels that kill 50 % of exposed laboratory animals under controlled experiments.
Fatal concentration	Death

## 2.8 Hazard and Risk Management through Inventory of all Hazardous Chemicals by IT invention

- i) 597 MAH industries are distributed in various parts of the state. These industries are using inflammable, explosive and toxic chemicals. These chemicals when released into the atmosphere may pose risk to human life and property.
- ii) The information about chemicals with antidotes and preparedness can reduce the risk. Therefore, SCP-CDMP suggests that state should prepare a data bank of hazardous chemicals of all MAH industries, in first phase, for hazardous chemicals as per the MSDS sheet of Schedule 9 of MS&IHC rules. The MSDS of hazardous chemicals should be available in hard and soft form. SCP-CDMP strongly recommends to make it web enable information in coordination with State Pollution Board and GSDMA. The suggested model for developing GIS based inventory of chemicals is as illustrated in Fig 2.3. The following should also be covered for inventory of hazardous chemicals:-
  - Gujarat Ports : with the help of DGFASLI;
  - Industrial Estates : with the help of State Industrial Department, SPCBs, CPCB, GSDMA and PESO;
  - Roads : with the help of RTO, PESO and PNGRB;
  - Railways: with the help of IR (Indian Railways);
  - Airways: with the help of Director General of Civil Aviation;
  - Petroleum and Gas Industries: with the help of PNGRB.



**Fig 2.3 Suggested way of inventory of Hazardous chemicals district wise in the Gujarat State**



### **2.9 Transportation of Hazardous Materials by cross country pipelines and midstream and downstream oil and gas units**

Petroleum and Natural Gas Regulatory Board (PNGRB) monitors and enforce safety and disaster management independently through Emergency Response and Disaster Management Plan (ERDMP) Regulation 2010/20 under PNGRB Act 2006. The legal and regulatory networking is today's need hence a strong coordination amongst DISH and PNGRB is required on priority, because at present there is no regulatory networking in between PNGRB and DISH.

Since in India the concentration of toxicity in terms of STEL, IDLH have not been notified under regulation for all chemicals therefore we may opt ERPG and or AEGL for identifying High Alert Zone, Medium Alert Zone and Low Alert Zone as ERPG 3/AEGL 3, ERPG 2/AEGL 2 and ERPG 1/AEGL 1 respectively. Similar is true for heat flux and pressure due to fire and explosion.

The consequence modelling of chemicals depends on various factors like, temperature, humidity, wind speed and direction, atmospheric class, height of storage, etc.. The consequence of modelling and overlays on maps requires skill to show the physical and environmental receptors for future planning decisions. The values of Table no 2.3 to 2.6 are suggestive and may be opted after details discussion by DISH, for more conservative approach the values can be changed for application. The Chapter 3 deals in details about modelling.

## Format for MSDS as per the MSIHC Rules, 1989

<b>MATERIAL SAFETY DATA SHEET</b>	
<b>1. IDENTIFICATION</b> Product Name: Manufacturer; name Address: Phone nu number: Emergency prion number	<b>2 HAZARD IDENTIFICATION</b> <div style="display: flex; align-items: center; justify-content: center;">   <div style="margin-left: 20px;">Danger</div> </div> Hazard statements: Hazard sten/: Precautionary statements:
<b>3 FIRST-AID MEASURES</b> Inhalatori —of Skin contact.:sypomins Eye contact —or Ingestion	<b>5 FIRE-FIGHTING MEASURES</b> Suitable extinguishing media Specific hazards arising from he chierical Protective for firefighters
<b>4 FIRE-FIGHTING MEASURES</b> Suitable extinguishing media Possib hazards arising from firehagera/ contagitibles	<b>6 ACCIDENTAL RELEASE MEASURES</b> Personal precautions, protective equipment, emergency procedudures Methods and materis for containment and clean up
<b>7 HANDLING AND STORAGE</b> Precautions for safe handling Conditions for safe storage Including incompatibilities	<b>11 TOXICOLOGICAL INFORMATION</b> Potential heath effects Symptoms
<b>8 EXPOSURE CONTROLS/PERSNL PROTECTION</b> Exposure limit values Appropriate engineerring controls	<b>13 DISPOSAL CONSIDERATIONS</b> Methods waste truitmethods
<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b> Appearance                      Odor Oder	<b>14 TRANSPORT INFORMATION</b> Applicable, specific, health, environment regulations specific to product
<b>10 STABILITY AND REACTIVITY</b> Chemical stability Possible hazardous reactions	<b>16 OTHER INFORMATION</b> Date of preparation or last revision
<b>11 TOXICOLOGICAL NFORMATION</b> Potential health effects exposure	<b>16 OTHER INFORMATION</b> Date of preparation or last revision
<b>12 ECOLOGICAL INFORMATION</b>	

## Chapter – 3

### Consequences modelling of chemical release due to accident or disasters

#### 3.1 Introduction

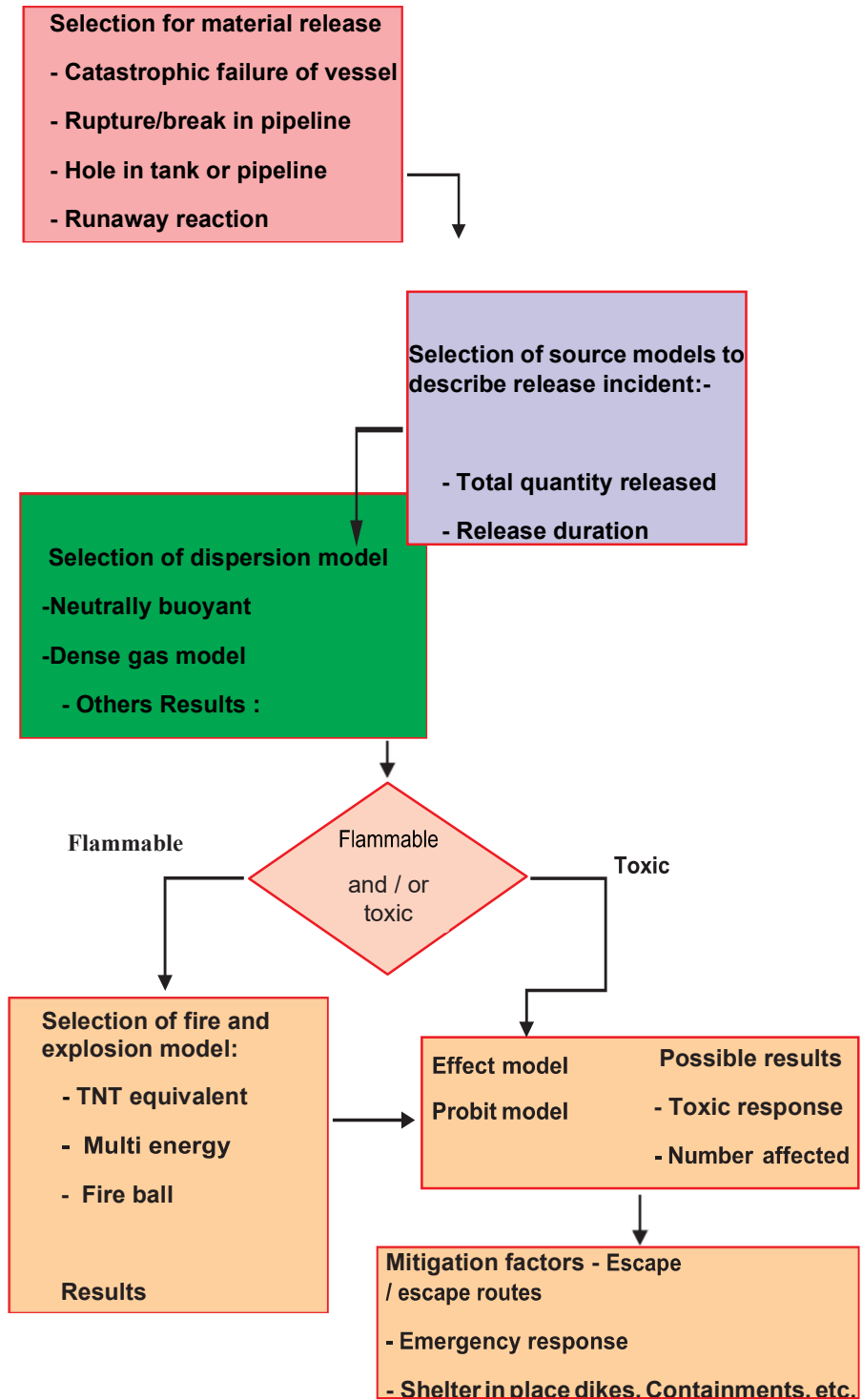
When a hazardous material escapes from its normal container due to some reason, it leads to the formation of gas, vapour, liquid or two-phase release. If the escaping fluid is combustible and an ignition source is present, a fire may occur. The situation may produce pool fire, jet fire, Boiling Liquid Expanding Vapour Explosion (BLEVE) etc. depending on the situation. If the ignition source is not present, the cloud gets diluted and blows off slowly. If the liquid is toxic, all living objects in the path of the cloud are exposed to toxic cloud. The nature of the damage resulting from an accidental release of a chemical depends on several factors viz., nature of the material, storage condition, release condition, atmospheric condition etc. The best way of understanding and quantifying the physical effects of any accidental release of chemicals from their normal containment is by means of mathematical modelling, called Consequence Analysis (CA). Consequence analysis deals with the study of effects of potential dangers involved in accidental release of regulated hazardous chemicals. As far as chemical industries are concerned, there are two types of consequence analysis: On-site CA and off-site CA. Here it is worth mentioning that Indian regulations are silent on release scenarios and therefore response during emergency situation does not get clear picture. This chapter specially included for the consideration to regulatory and decision making agencies to discuss in detail for implementation in ground. A flow chart for consequence analysis is shown as Fig – 3.1.

#### 3.2 Worst-case and Alternative-case release scenario

The Environmental Protection Agency (EPA), EPA has defined a worst-case release as the release of the largest quantity of a regulated substance from a vessel or pipe that results in the greatest distance from the point of release to a specified endpoint, beyond which serious injury is not expected to occur. For substances in vessels, release of the largest amount in a single vessel; for substances in pipes, release of largest amount in a pipe should be assumed. Actually the largest quantity should be determined taking administrative controls into account.

Administrative controls are written procedures that limit the quantity of a substance that can be stored or processed in a vessel or pipe at any one time, or alternatively, occasionally allow a vessel or pipe to store larger than usual quantities. It is not necessary to consider the possible causes of the worst-case release or the probability that such a release might occur; the release is simply assumed to take place.

A chemical release consequence as alternative-case scenario for a covered process must be one that is more likely to occur than the worst-case scenario and that reaches an endpoint offsite, unless no such scenario exists. It is not necessary to demonstrate greater likelihood of occurrence or carry out any analysis of probability of occurrence; we only need to use reasonable judgment and knowledge of the process. If, using a combination of reasonable assumptions, modelling of a release of a regulated substance from a process shows that the relevant endpoint is not reached offsite, we can use the modelling results to demonstrate that a scenario does not exist for the process that will give an endpoint.



**Fig - 3.1 Flow chart for consequence analysis**

Generally five-year accident history and failure scenarios are considered in process hazard analysis in selecting alternate-case release scenarios for regulated toxic or flammable substances (e.g., we might choose an actual event from our accident history as the basis of our scenario). We also may consider any other reasonable scenarios. The alternate-case

scenarios should be such for which we can explain to emergency responders and the public as a reasonable alternative to the worst-case scenario.

A few release scenarios may be as follows:

- Transfer hose releases due to splits or sudden uncoupling;
- Process piping releases from failures at flanges, joints, welds, valves and valve seals and drains or bleeds;
- Process vessel or pump releases due to cracks, seal failure, drain bleed, or plug failure;
- Vessel overfilling and spill, or over de-pressurization and venting through relief valves or rupture disks; and
- Shipping container mishandling and breakage or puncturing leading to a spill
- Collapse of storage vessel in natural disasters.

### **3.3. Modelling assumptions**

(a) End-points: in the definition of consequence analysis, the endpoints are the limit of impact below which it is believed that exposure to human life, livestock, environment and property may have adverse effect either in worst case or alternative case scenarios.

(b) Release height: all releases are assumed to take place at ground level or at certain height.

(c) Wind speed and atmospheric stability: meteorological conditions as defined by meteorological department which is more stable. If we can demonstrate a higher minimum wind speed or less stable atmosphere over three years, these minimums may be used. Atmosphere stability is defined from A to F.

(d) Temperature and Humidity: The highest daily maximum temperature that occurred in the previous three years and the average humidity for the site should be used. Difference in temperature and humidity are likely to have a effect on results.

(e) Topography: Two choices are provided for topography, one is located in an area with a few buildings or other obstructions, and other where no buildings or other obstructions.

(f) Storage conditions of a regulated hazardous substance are important and are required.

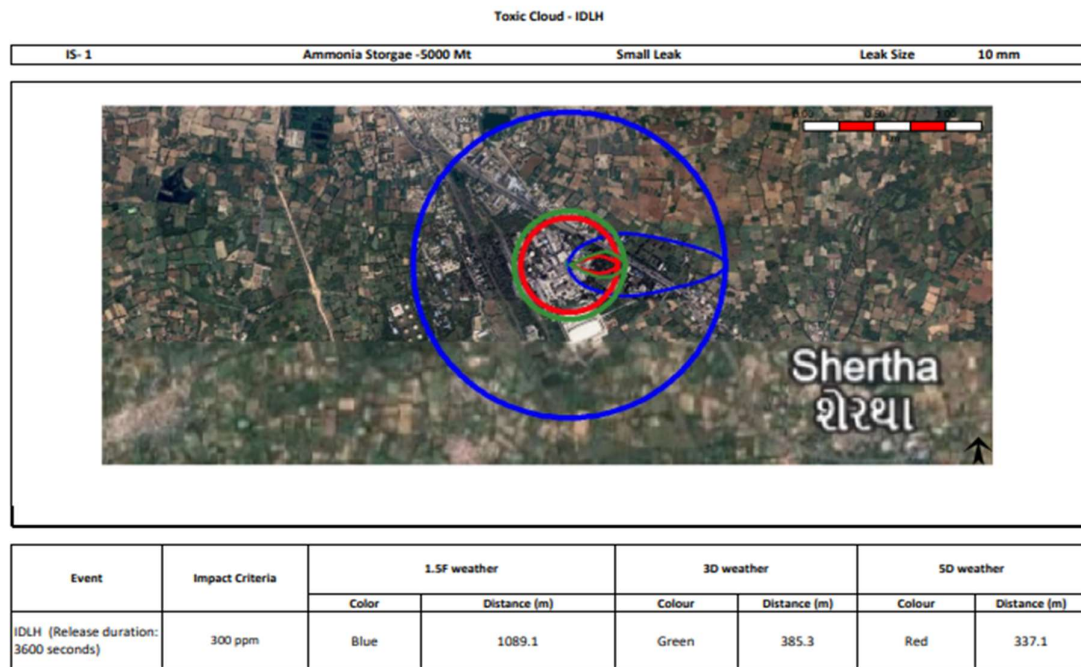
### 3.4 Computer software for modelling

A number of software are available in market and depending upon the requirement the desired software are used. DNV-PHAST, ALOHA of USEPA software tool is used in general for quick reference. To understand the consequence modelling a few consequence analysis are given below. This modelling show that how small changes in any one the inputs/parameters for software may have different results.

#### Toxicity case

##### Case 1

##### Ammonia Storage Facility at IFFCO Kalol

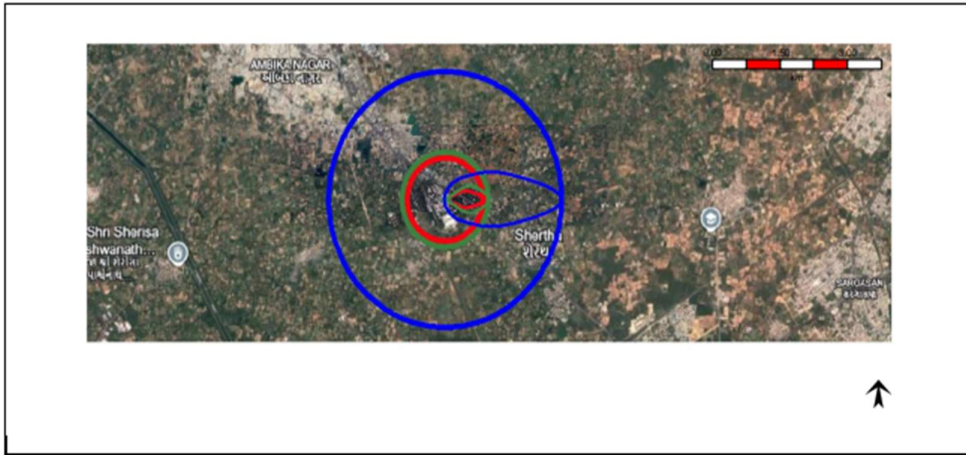


There are two nos. of Double wall double integrity type atmospheric storage tanks having following capacity:

1. 5000 MT – T - 3001
2. 10000 MT – T – 3501

Toxic Cloud - IDLH

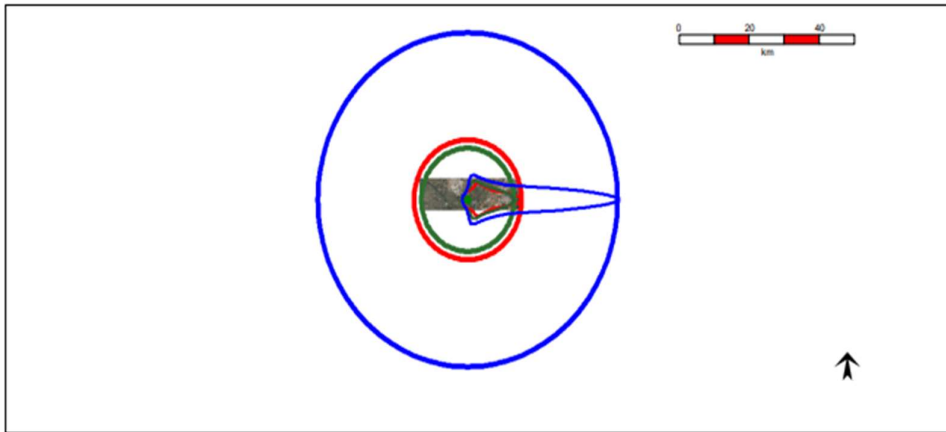
IS-1	Ammonia Storgae -5000 Mt	Medium Leak	Leak Size	25 mm
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Event	Impact Criteria	1.5F weather		3D weather		5D weather	
		Color	Distance (m)	Colour	Distance (m)	Colour	Distance (m)
IDLH (Release duration: 3600 seconds)	300 ppm	Blue	2569.18	Green	949.3	Red	832.7

Toxic Cloud - IDLH

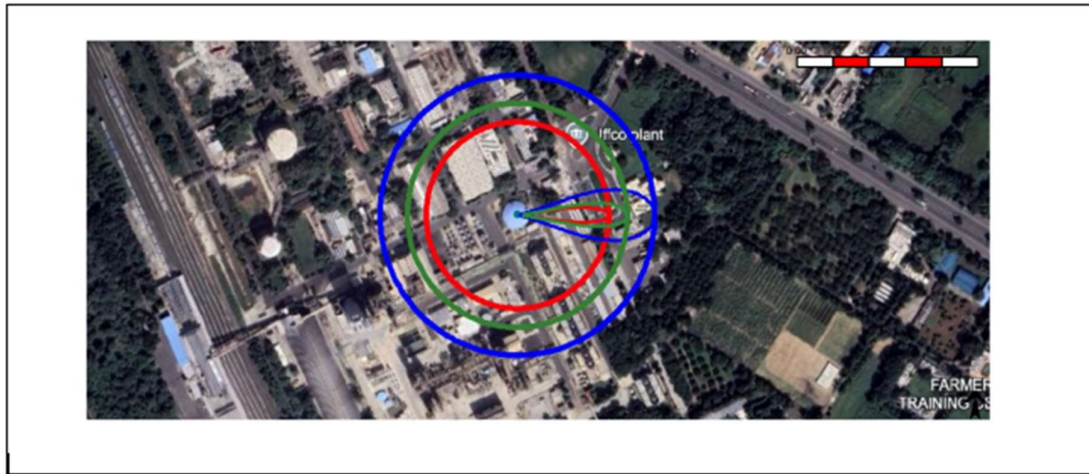
IS-1	Ammonia Storgae -5000 Mt	Catastrophic Rupture
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Event	Impact Criteria	1.5F weather		3D weather		5D weather	
		[No Title]	Distance (m)	Colour	Distance (m)	Colour	Distance (m)
Catastrophic Rupture	300 ppm	Blue	42506.5	Green	13078	Red	15239.6

Toxic Cloud - LC 50

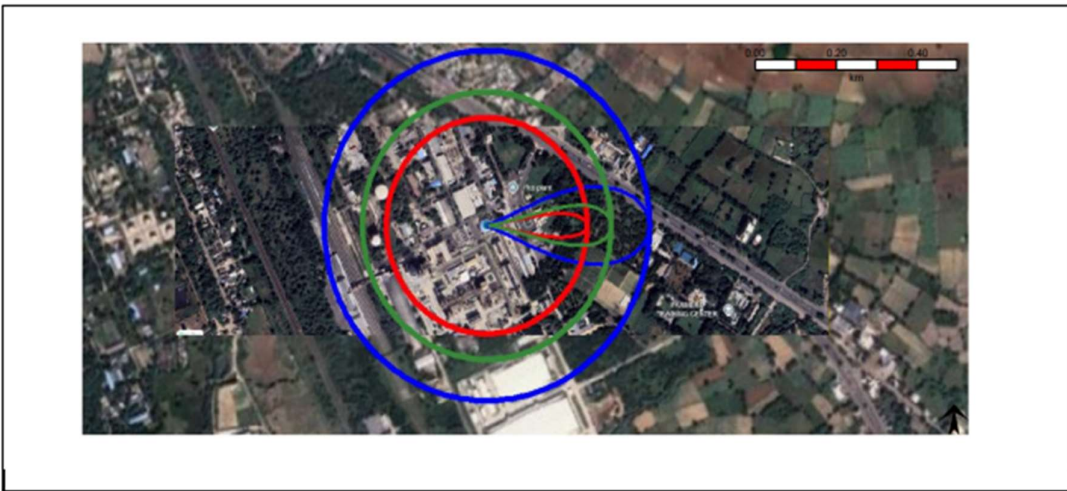
IS- 1	Ammonia Storgae -5000 Mt	Small Leak	Leak Size	10 mm
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Event	Impact Criteria	1.5F weather		3D weather		5D weather	
		Color	Distance (m)	Colour	Distance (m)	Colour	Distance (m)
LCSO (Release duration: 3600 seconds)	7338 ppm rat 1 hr	Blue	150.6	Green	120.5	Red	100.224

Toxic Cloud - LC 50

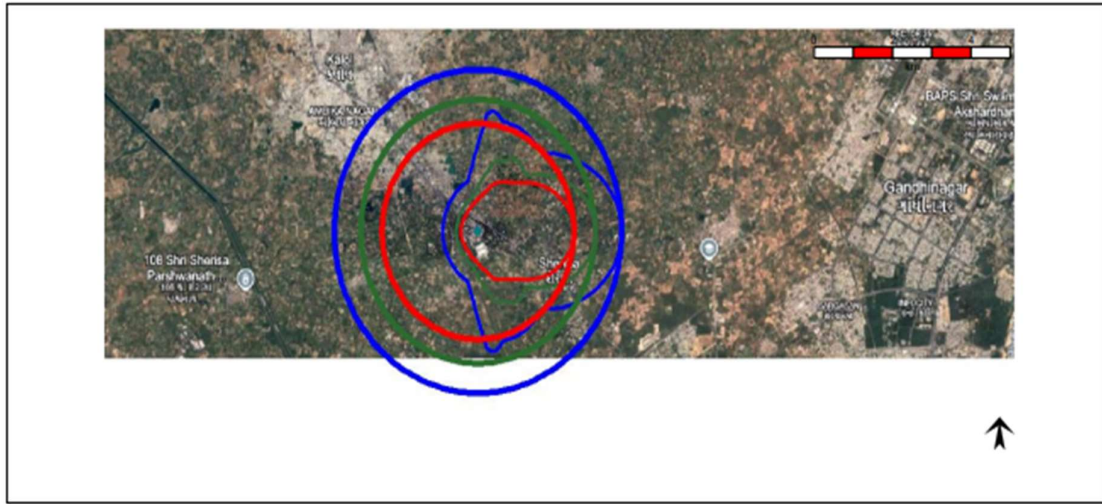
IS- 1	Ammonia Storgae -5000 Mt	Medium Leak	Leak Size	25 mm
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Event	Impact Criteria	1.5F weather		3D weather		5D weather	
		Color	Distance (m)	Colour	Distance (m)	Colour	Distance (m)
LCSO (Release duration: 3600 seconds)	7338 ppm rat 1 hr	Blue	399.383	Green	305.4	Red	246.712

Toxic Cloud - LC 50

IS-1 Ammonia Storage - 5000 Mt Catastrophic Rupture



Event	Impact Criteria	1.5F weather		3D weather		5D weather	
		Color	Distance (m)	Colour	Distance (m)	Colour	Distance (m)
LC50 (Release duration: 3600 seconds)	7338 ppm rat 1 hr	Blue	3646.5	Green	2971.8	Red	2422.2

Case – 2

Wind: 1.55 knots from w at 3 meters

Ground Roughness: open country      Cloud Cover: 10 tenths

Air Temperature: 25° C      Stability Class: D

No Inversion Height      Relative Humidity: 99%

SOURCE STRENGTH:

Direct Source: 1000 kilograms      Source Height: 0

Release Duration: 1 minute

Release Rate: 16.7 kilograms/sec

Total Amount Released: 1,000 kilograms

Note: This chemical may flash boil and/or result in two phase flow.

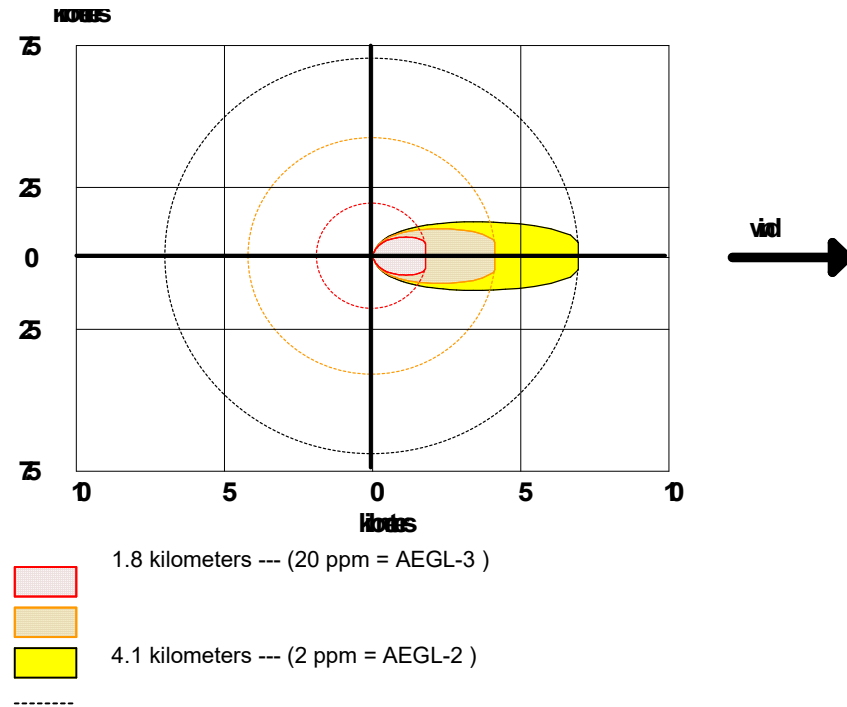
THREAT ZONE:

Model Run: Heavy Gas

Red : 1.8 kilometers --- (20 ppm = AEGL-3 [60 min])

Orange: 4.1 kilometers --- (2 ppm = AEGL-2 [60 min])

Yellow: 7.0 kilometers --- (0.5 ppm = AEGL-1 [60 min])



**Fig 3.1**

**Case -3**

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 2 knots from w at 3 meters

Ground Roughness: urban or forest      Cloud Cover: 0 tenths

Air Temperature: 40° C                      Stability Class: B

No Inversion Height                      Relative Humidity: 5%

**SOURCE STRENGTH:**

Direct Source: 1000 kilograms      Source Height: 0

Release Duration: 1 minute

Release Rate: 16.7 kilograms/sec

Total Amount Released: 1,000 kilograms

Note: This chemical may flash boil and/or result in two phase flow.

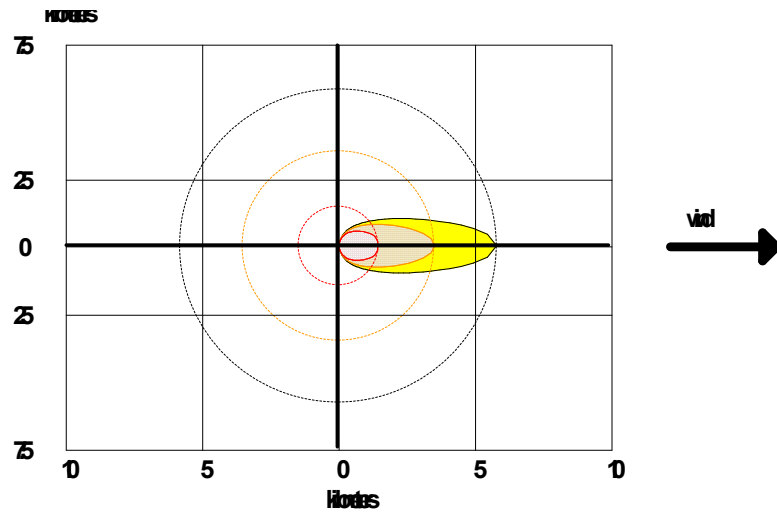
**THREAT ZONE:**

Model Run: Heavy Gas

Red :1.5 kilometers --- (20 ppm = AEGL-3 [60 min])

Orange: 3.5 kilometers --- (2 ppm = AEGL-2 [60 min])

Yellow: 5.8 kilometers --- (0.5 ppm = AEGL-1 [60 min])



- 1.5 kilometer --- (20 ppm = AEGL-3)
- 3.5 kilometer --- (2 ppm = AEGL-2)
- 5.8 kilometer --- (0.5 ppm = AEGL-1)

**Fig 3.2**

**Inflammable substance**

**Case 4**

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 2 knots from w at 3 meters

Ground Roughness: open country      Cloud Cover: 10 tenths

Air Temperature: 20° C      Stability Class: D

No Inversion Height      Relative Humidity: 99%

**SOURCE STRENGTH:**

Direct Source: 150 tons      Source Height: 0

Release Duration: 1 minute

Release Rate: 2,270 kilograms/sec

Total Amount Released: 136,078 kilograms

Note: This chemical may flash boil and/or result in two phase flow.

**THREAT ZONE:**

Threat Modeled: Flammable Area of Vapor Cloud

Model Run: Heavy Gas

Red : 607 meters --- (21000 ppm = LEL)

Orange: 805 meters --- (12600 ppm = 60% LEL = Flame Pockets)

Yellow: 2.2 kilometers --- (2100 ppm = 10% LEL)

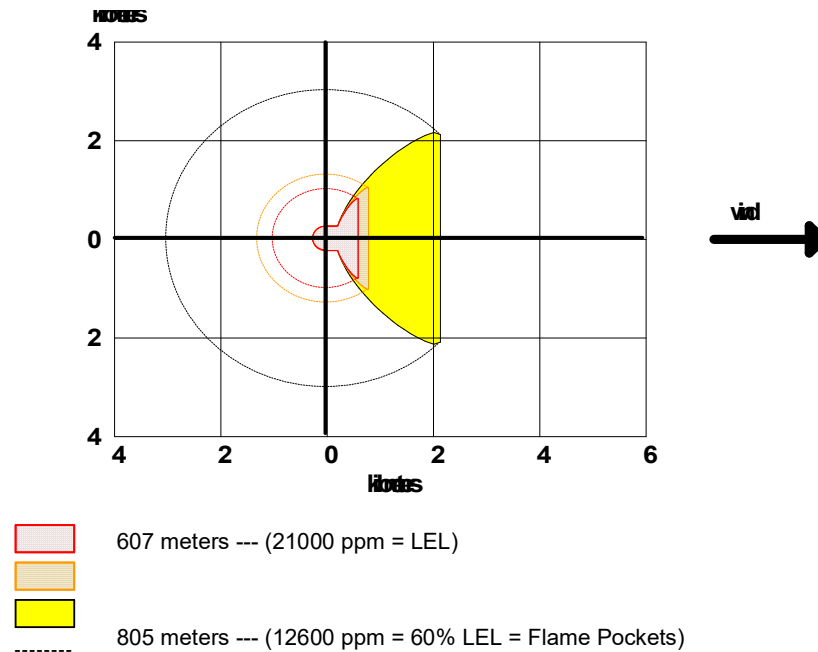


Fig 3.3

### Case 5

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 2 knots from w at 3 meters

Ground Roughness: open country      Cloud Cover: 10 tenths

Air Temperature: 20° C      Stability Class: D

No Inversion Height      Relative Humidity: 99%

SOURCE STRENGTH:

Direct Source: 150 tons      Source Height: 0

Release Duration: 1 minute

Release Rate: 2,270 kilograms/sec

Total Amount Released: 136,078 kilograms

Note: This chemical may flash boil and/or result in two phase flow.

**THREAT ZONE:**

Threat Modeled: Overpressure (blast force) from vapor cloud explosion

Type of Ignition: ignited by spark or flame

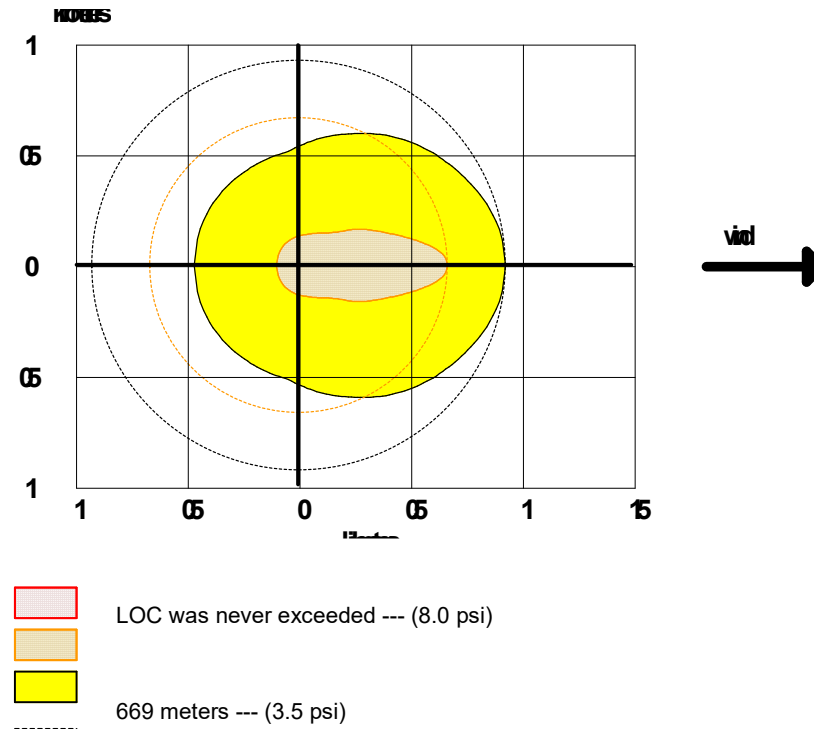
Level of Congestion: congested

Model Run: Heavy Gas

Red :LOC was never exceeded --- (8.0 psi = destruction of buildings)

Orange: 669 meters --- (3.5 psi = serious injury likely)

Yellow: 928 meters --- (1.0 psi = shatters glass)



**Fig 3.4**

**Case 6**

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 3 knots from w at 3 meters

Ground Roughness: open country      Cloud Cover: 0 tenths

Air Temperature: 40° C      Stability Class: F

No Inversion Height      Relative Humidity: 5%

SOURCE STRENGTH:

Direct Source: 150 tons      Source Height: 0

Release Duration: 1 minute

Release Rate: 2,270 kilograms/sec

Total Amount Released: 136,078 kilograms

Note: This chemical may flash boil and/or result in two phase flow.

**THREAT ZONE:**

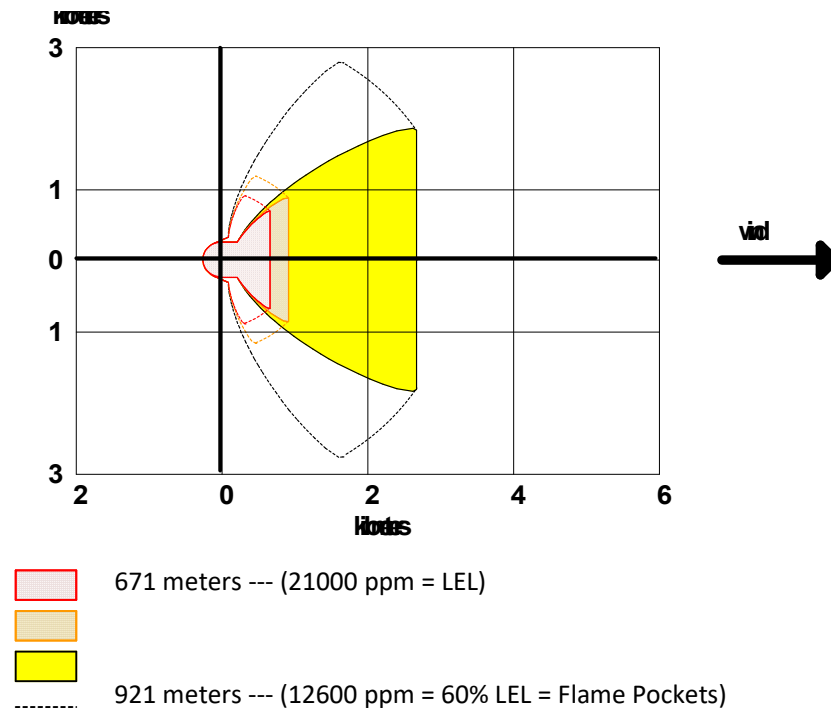
Threat Modeled: Flammable Area of Vapor Cloud

Model Run: Heavy Gas

Red : 671 meters --- (21000 ppm = LEL)

Orange: 921 meters --- (12600 ppm = 60% LEL = Flame Pockets)

Yellow: 2.7 kilometers --- (2100 ppm = 10% LEL)



**Fig 3.5**

**Case 7**

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 3 knots from w at 3 meters

Ground Roughness: open country      Cloud Cover: 0 tenths

Air Temperature: 40° C      Stability Class: F

No Inversion Height

Relative Humidity: 5%

**SOURCE STRENGTH:**

Direct Source: 150 tons

Source Height: 0

Release Duration: 1 minute

Release Rate: 2,270 kilograms/sec

Total Amount Released: 136,078 kilograms

Note: This chemical may flash boil and/or result in two phase flow.

**THREAT ZONE:**

Threat Modeled: Overpressure (blast force) from vapor cloud explosion

Type of Ignition: ignited by spark or flame

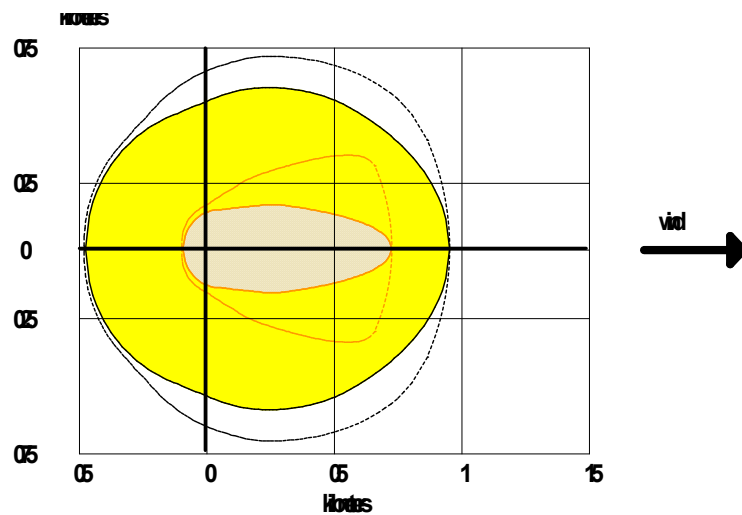
Level of Congestion: congested




Model Run: Heavy Gas

Red : LOC was never exceeded --- (8.0 psi = destruction of buildings)

Orange: 731 meters --- (3.5 psi = serious injury likely)

Yellow: 958 meters --- (1.0 psi = shatters glass)



-  LOC was never exceeded --- (8.0 psi = destruction of buildings)
-  Orange: 731 meters --- (3.5 psi = serious injury likely)
-  Yellow: 958 meters --- (1.0 psi = shatters glass)

### **3.5 Overlays of consequences on maps**

The overlay of consequence on local maps is important for overall emergency planning. A few examples i.e. Map no 3.1 to 3.5 (since, it is a policy plan hence the identity of site has not been disclosed) have been attached herewith to understand the importance of overlays. The overlay maps provides information about receptors like residential population, public places like schools, hospitals, religious, commercial, offices, roads, rails, airports, etc. and environment like forests, national parks, wildlife, etc. these receptors are considered for overall planning of the area including emergency. We tried to put consequence modelling of Ammonia, Chlorine, Styrene and LPG by taking examples of Gujarat Industries, but due to non-uniformity of the results and absence of information of receptors, we avoided to put in the present document. DISH may take a view and appropriate directions should be issued.

## Chapter – 4

### Capacity Development

#### 4.1 Introduction

Disaster Management Act 2005 of India “capacity-building” includes:- (i) identification of existing resources and resources to be acquired or created (ii) acquiring or creating resources and (iii) organisation and training of personnel and coordination of such training for effective management of disasters. SCP-CDMP has detailed all potential capacity building needs, through robust HRD (Human Resource Development) mechanism, including the identification of training groups, notifications of training institutions, and approach towards organizing training programmes. The availability of existing resources and infrastructure, are also the major areas of concern, which need to be addressed from the capacity building point of view.

#### 4.2 Human Resource Development (HRD)

Human Resource Development (HRD) programme on Chemical/Industrial Disaster Management is an important challenge for effective action plan. It begins with identification of target training institutions, targets groups, master training institutions, development of material, importance of evaluation criteria, system, along with training and infrastructure development, etc. HRD comprises the following vital components: -

##### 4.2.1 Identification and Notifications of Training Institutions

1. To have equality human resource development through training and awareness programme the following steps have been suggested: -

a. Identification and development of Nodal Training Institutions (NTIs), these NTIs further identify, develop and will recommend Satellite Training Institutions (STIs) at local levels to assist Nodal Training Institutions to strengthen the capacity of all stake holders. Local industrial associations may be the preferred Satellite Training Institutions. NTIs may be national level intuitions.

“For example, Lal Bhadur Shastri National Academy of Administration (LBSNAA), Mussoorie, National Disaster management Institute, New Delhi are suggested as the NTIs for officers of Indian Administrative Services (IAS) and other stakeholders of chemical disaster management respectively. The Sardar Patel Institute of Public Administration (SPIPA) of Gujarat will work as STIs ensuring the training at state level for all state administrative officers. Similarly, National Disaster Response Force (NDRF) battalion located in the Gujarat or nearby BN will be the nodal training institutions (NTIs) for State Disaster Response Force (SDRF) of the state, the SDRF will act as a STI for the state of Gujarat”. Gujarat Institute of Disaster Management (GIDM) and Pandit Deendayal Petroleum University (PDPU) will be STI for various stakeholders of CDM.

b. Identification of training institutions offering general and specialised training at different levels for different target groups at national and international levels.

c. Networking of training institutions.

To address the above points (a-c) following issues should also be considered:-

- Formal college / institutions of engineering, medical and management should have specialised degree courses in CDM in the respective areas / field.
- Development of distance training programmes by involving open universities.

2. DISH or and GIDM should coordinate with National Institute of Disaster Management (NIDM) to impart training on chemical and industrial safety. The State Administrative Training Institution (SPIPA) and Mahatma Gandhi Labour Institute, Ahmadabad will also act as notified training institutions for capacity development of the state officials especially of SDMAs and DDMAs. NIDM can organise Training for Trainers (TOT ) training of DDMAs and SDMAs of the whole state. The Suggested network mechanism is shown in Fig 4.2.

A suggestive but not limited to, list of NTIs has been identified as below: -

- ESCI – Engineering Staff College of India, Hyderabad
- ASCI – Administrative Staff College of India, Hyderabad
- IICT – Indian Institute of Chemical Technology, Hyderabad
- ETI – Environmental Training Institute, Chennai
- IGIAT – Indo-German Institute of Advanced Training, Vishakhapatnam
- IIT – Indian Institute of Technology, Bombay, Kharagpur, Madras, Roorkee etc.
- SVPNPA – Sardar Vallabhbhai Patel National Police Academy, Hyderabad
- LBSNAA – Lal Bhadur Shastri National Academy of Administration, Mussoorie
- ISI – India Statistical Institute, Delhi.
- NSC – National Safety Council and its state chapters
- ITRC – Industrial Toxicology Research Centre, Lucknow
- NEERI – National Environmental Engineering Research Institute, Nagpur.
- NCDC – National Civil Defence College, Nagpur.
- NIDM – National Institute of Disaster Management, Delhi.
- NPC – National Productivity Council, New Delhi.
- Indian Institute of Science, Bengaluru.
- SAIL – Management Training Institute, Steel Authority of India, Ranchi.
- SPA - School of Planning and Architecture, New Delhi.
- TERI – The Energy Research Institute, New Delhi.
- DGFASLI – Director General of Factories Advice Services & Labour Institute, Mumbai
- CLI - Central Labour Institute, Mumbai and its Regional Labour Institutes (RLIs)
- IGNOU – Indira Gandhi National Open University, New Delhi.
- IPSHEM – Institute of Petroleum Safety, Health and Environment Management, Goa
- CLRI – Central Leather Research Institute, Chennai
- MGLI – Mahatma Gandhi Labour Institute, Ahmedabad
- KSPC - Kerla State Productivity Council
- Industrial Associations/Federations like FICCI, CII, ASSOCHAM, PhdCCI, etc.
- NITS – National Institute of Training for Standardisation, Noida.

#### 4.2.2 Identification of Target Groups to be Trained

This Plan advocates the Training Need Assessment (TNA) for following groups before starting any training programme in the area of CDM: -

- SDMA – State Disaster Management Authority
- DDMA – District Disaster Management Authorities
- SCG – State Crisis Group
- DCGs – District Crisis Groups
- LCGs – Local Crisis Groups
- MAH industries – Major Accident Hazard Industries
- First Responders – Police, Medical, Fire departments, etc
- SIDCOs – State Industrial Development Corporations
- DISH- Director industrial Health and Safety, its officers
- SPCB – State Pollution Control Board and its offices
- Media – Both Print and Electronics
- Transport – Rail, Road, Pipeline owners
- Contractors – Civil, Transport, Electrical, etc.

SCP-CDMP also identifies the other groups working under different regulatory provisions:

- a. Response forces appointed under Disaster Management Act 2005
  - National defence Response Force (NDRF), Battalion, Gandhinagar/Vadodra
  - Gujarat State Disaster Response Force (SDRF)
- b. Officers appointed under Dock Workers (Safety, Health and Welfare) Act, 1986 and working in Docks of Gujarat.
- c. Officers appointed under the Factories Act, 1948
  - Chief Inspector of Factories
  - Additional Chief Inspector of Factories
  - Joint Chief Inspector of Factories
  - Deputy Chief Inspector of Factories
  - Inspector of Factories, etc.
- d. Officers appointed under The Indian Port Act, 1908 at Gujarat Ports
  - Conservator of Ports
  - Deputy Conservator of Ports
  - Harbour Master
- e. Officers appointed or working in districts under The Explosives Act, 1884 and the Explosives Rules, 1983 working in Gujarat
- f. Officers appointed under The Insecticides Act, 1968
  - Licensing Officer
  - Insecticides Inspector
- g. Officers appointed under The Petroleum Act, 1934 working in Gujarat
- h. Officers appointed under The India Boilers Act, 1923
  - Chief Inspector of Boilers
  - Deputy Chief Inspector of Boilers
  - Inspector of Boilers.

#### 4.3 Organization of Training Programmers

1. The process of training organization should have coordinated approach starting from development of the training programmers to implementation of the results, acceptance with understanding followed in practice. Skill development in CDM is the ultimate objective of the programmers. The whole process to be followed as is illustrated in Fig 4.1.

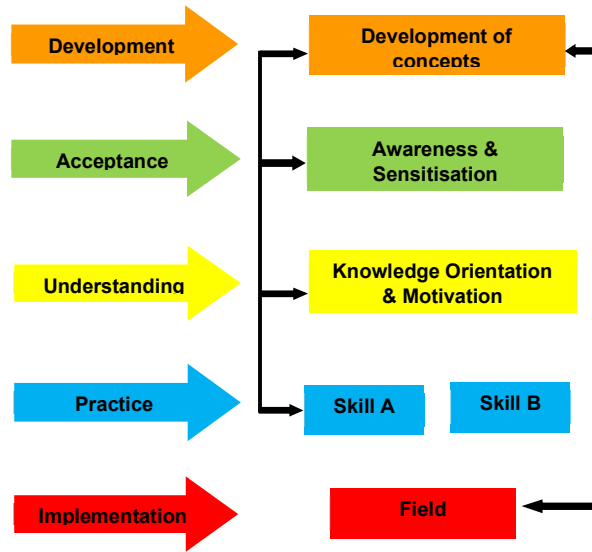
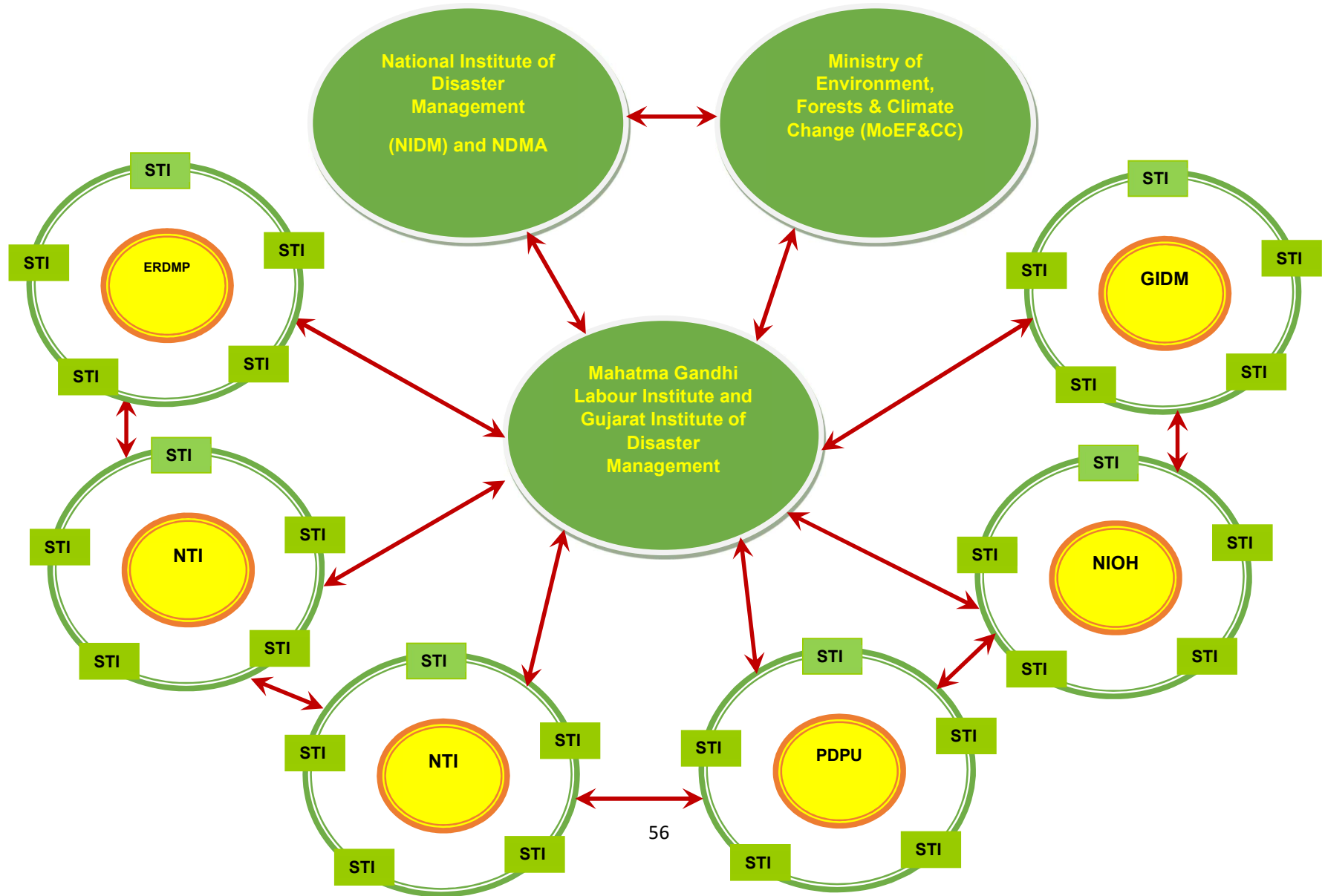


Fig 4.1: Process of Training Organisation



This is the general observation that training programmes are being conducted without proper Training Need Assessment (TNA) for various target groups. This plan recommends that the TNA will be the essential and integral component for programme design to get best possible results. 9 steps of this process have been recommended and is as illustrated in Fig. 4.3.

**2.** To have an effective training mechanism of development of master trainer action should be initiated so that a team of trainers can be developed in whole state. These master trainers will in turn take responsibility of development of STIs. In the process of development of master trainers, the best practices and experience of industries should be made mandatory.

**3.** For above target groups as specified in 4.2.2, the SCP-CDMP suggests immediate training on following topics for capacity development: -

- Acts and regulations related to Chemical/Industrial disaster management
- On-site Emergency Management, Planning, Making, Evaluation, Practicing, etc
- Off-site Emergency Management, Planning, Making, Evaluation, Practicing, etc
- Training for Safety in Road Transportation of Hazardous Chemicals
- Training for Safety in Rail Transportation of Hazardous Chemicals
- Disaster Management and Preparedness
- Hazards Identification and Risk Assessment (HIRA) techniques
- Accident Investigations
- Layer of Protection Analysis for Prevention and Mitigation
- Techniques of Safety Integrity Level
- Mock Drill as a Preparedness Measure
- Human Error & Organization Failure
- Business Continuity and IDRM Plans
- First Aid
- Fire Fighting
- Medical Preparedness
- Reporting Procedures for Media
- Confined Space Safety
- Hazards Identification and Control Measures in Chemical (Industrial) Workplaces
- Personal Protective Equipment
- Accident Causation: Models and Theories
- Human Factors in Accidents and prevention
- Organisational Commitments in Reducing Accidents
- Job Safety Analysis
- What should I Know as District Collector and Why?
- Risk Assessment and Management
- Consequence analysis: application in emergency planning
- Industrial Disaster Response

#### 4.4 Synergetic Application of Science and Technology

GIDM and DISH with MoEF&CC and other line Ministries like Ministry of Petroleum and Natural Gas, Agriculture, Fertiliser, Ministry of Science & Technology, and the other concerned Departments of GoI, in consultation with NDMA, and with Private and Public sector Industrial Houses, will identify the specific needs and disciplines for research and application. The domain-specific institutions depending on their expertise and knowledge base will also have to identify.

The following institutions have been recommended for the knowledge networking: -

##### A) National Institutions

1. All CSIR laboratories for research and development
2. All IITs for research and development
3. All NITs (Earlier Regional Colleges of Engineering)
4. All Central Universities
5. Specialized institutions like Indian Institute of Petroleum, Gandhi Nagar, Dehradun.
6. Indian Institute of Science, Bangalore
7. Petroleum and Explosives Safety Organization (PESO), Mumbai.
8. Directorate General of Factory Advice Service and Labour Institutes (DGFASLI), Mumbai
9. Director General of Mines and Safety (DGMS), Ranchi
10. Central Power Research Institute (CPRI), Bengaluru
11. Institute of Petroleum Safety, Health and Environment Management (IPSHEM), Goa
12. Defence Research and Development Organisation (DRDO), New Delhi and Gwalior
13. Directorate General of Factory Advice Service and Labour Institutes (DGFASLI), Mumbai
14. Director General of Mines and Safety (DGMS), Ranchi
15. Central Power Research Institute (CPRI), Bengaluru
16. Institute of Petroleum Safety, Health and Environment Management (IPSHEM), Goa
17. Defence Research and Development Organisation (DRDO), New Delhi and Gwalior
18. All India Institute of Medical Science (AIIMS), New Delhi
19. Power Management Institute (PMI), Noida
20. Specialized training institutions working on R&D on public and private industrial houses like Thapar, Reliance, Grasim, Ranbaxy, Cipla, Cadila, IOCL, HPCL, BPCL, etc.
21. Red Cross
22. Central Pollution Control Board (CPCB), New Delhi
23. National Safety Council (NSC), Mumbai
24. Sardar Vallabhbhai Patel National Police Academy (SVPNPA), Hyderabad
25. Lal Bhadur Shastri National Academy of Administration (LBSNAA), Mussoorie
26. All India Industrial Association like CII, FICCI, ASSOCHAM, etc.
27. Indian Space Research Organization (ISRO).

##### B) International Institutions

1. United Nation International Strategy for Disaster Reduction (UN-ISDR)
2. United Nations Environment Program (UNEP)
3. United Nations Institute for Training and Research (UNITAR)
4. United Nations Environmental Protection Agency (USEPA)
5. International Labour Organization (ILO)
6. European Process Safety Centre (EPSC)

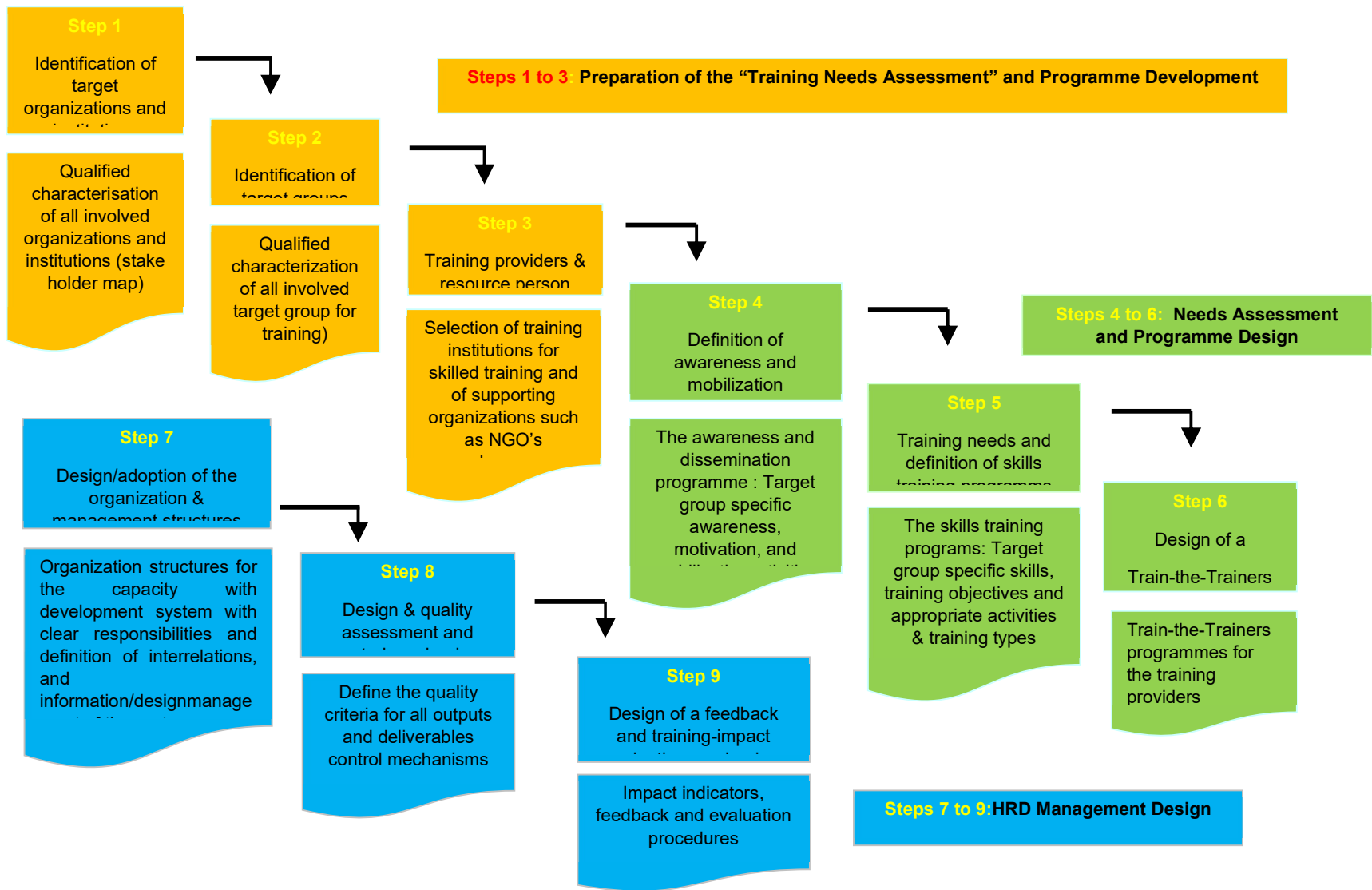
#### 4.4.1 India Disaster Resource Network (IDRN)

The existing framework of IDRN ([www.idrn.gov.in](http://www.idrn.gov.in)) is required to be further expanded to include the resources of various agencies, domains and disciplines at the National and State level. The relevant information will/should be placed in the public domain for easy retrieval, usage and online updating.

The knowledge network platform must have year wise repository of training programmes on various modules of CDMP at different places of the country with training materials for the benefit of the stakeholders. The network should have also comprehensive information on key concept of CDMP related regulations and also about the institutions and organizations providing knowledge information on CIDM. The platform should provide information on latest calendar of events along with the participating institutions. The platform should also provide information about the individual experts working in govt. / private sectors. The network will also explore the possibility of capacity development for school and college students by way of online learning and scoring. The knowledge platform will act as single window for getting information on following:-

- a) MSDS of hazardous chemicals with their antidotes as per Schedule 9 of MSIHC rules industry wise of each MAH unit.
- b) Information on hazard and risk assessment due to explosion, fire and toxicity by hazardous industries as suggested in Chapter 2 and 3.
- c) On-site and Off-site emergency management plans on GIS domain state wide
- d) All relevant Acts and Rules
- e) Guidelines and Manuals on CDMP
- f) Best Practices on CDMP
- g) Accident Investigation Reports, etc.,
- h) Videos and films
- i) Report of Mock drills conducted by NDMA and others.
- j) Availability of District and State wise response equipment's with detail contact numbers and approximate time to transport the equipment to industrial vulnerable places.
- k) Accident reporting and investigation from PNGRB for oil and gas industries.

MoEF&CC with NIC are working on the Environmental Information System (ENVIS). This system is basically an information dissemination system of various environmental Components State / UT wise. ENVIS headquarter at New Delhi at MoEF&CC is coordinating with various State / UT governments by their state ENVIS centres. A dedicated ENVIS on CDMP at DISH Gujarat can be established and for this a request can be sent to MoEF&CC



## 4.5 Infrastructure Development

The following types of important stake holders have been identified for capacity building in relation to chemical disaster prevention, mitigation and preparedness:

- ✓ Regulators includes DISH and GPCB
- ✓ Administrators.
- ✓ First Responders
- ✓ Community

### 4.5.1 Regulators and Administrators

#### 4.5.1.1 Regulators

It has been observed that the regulators (i.e., DISH and GPCB) need capacity development, with adequate infrastructure. Hence it is recommended that the following points should be institutionalized in schedule manner to strengthen: -

- Graduate Engineer - Chemical and Fire Engineers to contribute in CIDM. Besides, Doctorate in Chemistry will also be required.
- Support Staff: - Diploma Engineer, Computer Operators in place of simple clerks.
- Office Building with internet and Library: - At each revenue divisional commissioner level and large industrial estate, latest office building on green environment concept.
- Monitoring Equipments: -Toxic gasses monitoring equipment (CS<sub>2</sub>, CO, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub>, SO<sub>3</sub>, Acid fumes, lead fumes), Noise monitoring, repairable dust monitoring equipment's with mobile van.
- Vehicles: - Necessary vehicles at each industrial estate level office to work independently and effectively.

#### 4.5.1.2 Administrators

District collectors and their team as identified in CA(EPPR) rules monitor the progress of overall CDM preparedness should have regular training for skill and knowledge development.

### 4.5.2 First Responders

Capacity development is recommended for CIDM, through proper equipping the following first responders immediately:-

- ✓ Fire Department
- ✓ Police Department for maintaining law and order during crisis and SDRF.
- ✓ Gujarat SDRF.
- ✓ Medical Department for handling medical issues during and after disasters.

#### 4.5.3 Fire Department

Capacity of the Fire department should be strengthened to respond all types of fires by addressing/ providing the following:-

- Trained man power.
- Latest foam, DCP fire extinguishers and fire tender.
- Recruitment of the trained man power through robust policy of recruitment.
- New area proper planning will be addressed with proper signage and hydrants points for emergency.

- Survey should be carried out for high rise platform for high altitude firefighting in many fires' stations.
- All Fire Stations of industrial estates should be in safe zones.

#### **4.5.4 Police Department and SDRF**

Capacity of the Police Department for maintaining law and order during crisis will be strengthened, hence it is suggested that: -

- Proper training and awareness in CIDM.
- Training should be imparted on how to maintain law and order in case of emergency which involves mass casualties surrounded by their relatives and family members due to fire, toxic releases or explosion in chemicals.
- Constitution of special task force for handling such emergency situations. It can be achieved by creating CBRN battalions in State.
- Training of SDRF with NDRF for overall capacity development to handle CIDM

#### **4.5.5 Medical Department**

Medical Department will be strengthened for handling medical issues during and after chemical disasters, should have the following:-

- Proper infrastructure needs to be created for numbers of beds.
- Burns and toxic wards to be created in those areas where there are possibilities of frequent fire hazards and toxic release.
- Proper training is mandated for doctors and paramedical staff.
- Creation of provisions of reception of relatives of the casualties in case of any chemical/ industrial disasters to avoid chaotic situation. Infrastructure can be created after proper survey by State Govts.
- National Guidelines prepared by NDMA should be used for the development of mass casualties management.
- Adequate number of ambulances has to be procured to deal the emergency. Developing a mechanism so that the ambulance can be maintained in good conditions and emergency can be handled effectively.

#### **Poison and toxic**

To treat victims of poisonous chemicals the poison centers need to be established at national, state and regional level. These centers shall have competency to treat the victims by appropriate antidotes.

#### **4.6 Community**

The focus should also include do's and don'ts in local languages based on advance finding of On-site/Off-site Emergency Management Plans, safety reports, safety audits and mock drills, etc. District administration should be directed through GDMA to make awareness hoardings at common places along with the regular publication of do's and don'ts in popular local newspapers / e-media.

Corporate driven initiatives such as the Corporate Social Responsibility (CSR) and Responsible Care (RC), have very high potential to address the pertinent issue of

Chemical/Industrial disaster management. The corporate/ chemical industries need to capacitate the communities surrounding the Chemical/Industrial plants. Big industrial houses should be encourages for CSR for community capacity development

Local/regional NGOs also have important role to play, in order to sensitize the communities residing in the vicinity of hazardous industrial unit. Therefore, the NGOs and volunteers also need to be trained prior to or along with community. Afterwards NGOs can further sensitize the communities and local residents.

Community should be an integral part of Mock drills. A format of mock drill is suggested as Functional sub-plan

## Chapter – 5 Organizational Structure for Response, Relief and Rehabilitation

### 5.1 Introduction

Management of chemical accident involves partnership among the following stakeholders:

- a) Local Crisis Groups (LCG), District Crisis Group (DCG) and State Crisis Group (SCG)
- b) Gujarat State Disaster Management Authority
- c) Local welfare departments of the State Government
- d) Directorate of Industries Safety and Health (DISH)
- e) State Pollution Control Board (SPCB)
- f) The management of the hazardous industrial units
- g) Managements of other industries, which may be affected by accidents in neighbouring MAH units
- h) National Disaster Response Force (NDRF)
- i) State Disaster Response Force (SDRF)
- j) NGOs and local community organizations

The DCG is the apex body in the district to deal with major chemical accidents under the guidance of the District Collector, chairperson of DCG. Responsibilities of DCG include preparation of Off-site emergency plan, management of chemical accidents and keeping the State Crisis Group informed regarding any accident situation.

LCG is a body in a industrial pocket to deal with chemical accidents under the guidance of Sub-Divisional Magistrates. LCG is responsible for preparation of local off-site emergency plan; train personnel; educate communities likely to be affected and conduct of mock-drills at sites. LCGs need to work in close coordination with DCG. DCG may have one or more LCGs.

Local response agencies like police, fire services, SDRF and medical services are the first responders in case of an accident. Fire services take care of any fire or spillage to minimise the severity of the incident and to prevent it from developing into a larger accident. At present NDRF plays a lead and professional response agency and extends support state and local governments and also coordinate with SDRF.

Relief arrangements for the affected population could be organised under the local-level officials of the State Welfare Department. Such responsibilities need to be identified and spelt out in specific terms. The Directorate of Industries Safety and Health (DISH) plays a key and leading role in ensuring preparedness of industries to deal with chemical accidents and their prevention.

The managements of respective units have the direct responsibility for maintaining high safety standards to minimize chances of accidents (prevention) and contain the severity of off-site consequences within acceptable levels. They also have the responsibility to create awareness in the vicinity about the off-site scenarios and do's and don'ts by the affected population in such scenarios.

Local community organizations and NGOs can play an active role in raising the awareness level of the communities. They are also valuable assets for the community's response plan(s). They can connect to the people at a humanitarian level and hence can help by making them aware about the possible hazards and actions during the response to an emergency. Therefore, NGOs can help in avoiding blunders through lack of preparedness and planning.

## 5.2 Legal Framework

The Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996 under Environment (Protection) Act, 1986 seeks to achieve partnerships among different stakeholders through creation of District and Local Crisis Groups for management of chemical accidents in a given industrial area as stated in Schedule 7 and Schedule 8 of Rule 8 for DCG and LCG respectively. Functions of these crisis groups have already been described in coming paragraphs. DCG and LCG are functional and field agencies for chemical accidents or disasters. The District Crisis Group shall meet every forty five days and send a report to the State Crisis Group; and Local Crisis Group shall meet every month and forward a copy of the proceedings to the District Crisis Group as per Rule 8.

The State Crisis Group (SCG) is the apex body in the State to deal with major chemical accidents and to provide expert guidance for handling major chemical accidents as per Rule 7. The Central Crisis Group shall be the apex body to deal with major chemical accidents and to provide expert guidance for handling major chemical accidents.

### 5.2.1 Local Crisis Group (LCG)

As per Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996 Gujarat has the following composition of District and Local Crisis Groups as follows:

#### Composition of Local Crisis Group (LCG)\*

(i)	Sub-divisional Magistrate / District Emergency Authority	Chair person
(ii)	Inspector of Factories	Member Secy.
(iii)	Industries in the District/ Industrial area/ industrial pocket	Member
(iv)	Transporters of Hazardous Chemicals (2 nos)	"
(v)	Fire Officer	"
(vi)	Station House Officer (Police)	"
(vii)	Block Development Officer	"
(viii)	One Representative of Civil Defense	"
(ix)	Primary Health Officer	"
(x)	Editor of local News paper	"
(xi)	Community leader/Sarpanch/Village Pradhan nominated by Chair-person	"
(xii)	One Representative of Non-government Organisation to be nominated by the Chair-person	"
(xiii)	Two Doctors eminent in the Local area, to be nominated by Chair-person	"
(xiv)	Two Social Workers to be nominated by the Chair-person	"

*\* Railway authorities, Ports authorities and PNGRB should be co-opted in addition to the existing members*

The Local Crisis Group shall be the body in the industrial pocket to deal with chemical accidents and coordinate efforts in planning, preparedness and mitigation of a chemical accident.

Without prejudice to the functions specified under sub-rule (1), the Local Crisis Group shall:

- prepare local emergency plans for the industrial pocket;
- ensure dovetailing of the local emergency plan with the district off-site emergency management plan;
- train personnel involved in chemical accident management;
- educate the population likely to be affected in a chemical accident about the remedies and existing preparedness in the area;

- e) conduct at least one full scale mock-drill of a chemical accident at a site every six months and forward a report to the District Crisis Group;
- f) respond to all public inquiries on the subject;

Gujarat Govt has made LCGs and notified them.

## 5.2.2 District Crisis Group (DCG)

To monitor the functions of the LCGs the composition of District Crisis Groups are in place as below in all districts of Gujarat:

### Composition of the District Crisis Group+

(i)	District Collector	Chair person	
(ii)	Inspector of Factories*	Member Secy.	
(iii)	District Emergency Officer	Member	
(iv)	Chief Fire Officer	Member	
(v)	District Information Officer	"	
(vi)	Controller of Explosives*	"	
(vii)	Chief, Civil Defense*	"	
(viii)	One Representative of Trade Unions to be nominated by the District Collector	"	
(ix)	Deputy Superintendent of Police #	"	
(x)	District Health Officer/Chief Medical Officer	"	"
(xi)	Commissioner, Municipal Corporations	"	
(xii)	Representative of the Department of Public Health Engineering	"	
(xiii)	4 Experts (Industrial Safety and Health) to be nominated by the District Collector	"	
(xiv)	Commissioner (Transport)*	"	
(xv)	One Representative of Industry to be nominated by the District Collector	"	
(xvi)	Chair-person/Member-Secretary of Local Crisis Groups	"	

\* *These officers should be of the district level from their respective department*

# *Should be preferably Superintendent of Police*

+ *Railway authorities, Ports authorities and PNGRB authorities should be co-opted in addition to the existing members.*

### Functions of the District Crisis Group

The District Crisis Group is the apex body in the district to deal with major chemical accidents and to provide expert guidance for handling chemical accidents.

Without prejudice to the functions specified under sub-rule (1), the District Crisis Group shall:

- a) assist in the preparation of the district off-site emergency management plan;
- b) review all the on-site emergency plans prepared by the occupier of Major Accident Hazards installation for the preparation of the district off-site emergency management plan;
- c) assist the district administration in the management of chemical hazards;

- d) continuously monitor every chemical accident;
- e) ensure continuous information flow from the district to the Centre and State Crisis Group regarding accident situation and mitigation efforts; forward a report of every chemical accident within fifteen days to the State Crisis Group;
- f) conduct at least one full scale mock-drill of a chemical accident at a site each year and forward a report of the strengths and weaknesses of the plan to the State Crisis Group.

The details of DCGs and LCGs are given in Appendix -2 (Page no.213-281)

### **5.2.3 State Crisis Group**

The State Crisis Group shall be the apex body in the State to deal with major chemical accidents and to provide expert guidance for handling major chemical accidents.

The State Crisis Group shall:

- a) review all district off-site emergency management plans in the State with a view to examine its adequacy in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in 2000 and forward a report to the Central Crisis Group once in three months;
- b) assist the State Government in managing chemical accidents at a site;
- c) assist the State Government in the planning, preparedness and mitigation of major chemical accidents at a site in the state;
- d) continuously monitor the post accident situation arising out of a major chemical accident in the state and forward a report to the Central Crisis group;

The State Government has constituted constitute a State Crisis Group for management of chemical accidents as per the provisions of these rules. The composition of the State Crisis Group is given at Annexure 5.1

### **5.2.4 Constitution of Crisis Alert System**

The Central Government has set up a functional control room for net working system with the State and district control rooms at Ministry of Environment, Forest & Climate Change (MoEF&CC) and is working as per the provisions of CA (EPPR) Rules 1996.;

#### **Functions of the Central Crisis Group:**

The Central Crisis Group is the apex body to deal with major chemical accidents and to provide expert guidance for handling major chemical accidents. Without prejudice to the functions the Central Crisis Group has following functions:-

- a. continuously monitor the post accident situation arising out of a major chemical accident and suggest measures for prevention and to check recurrence of such accidents;
- b. conducting post-accident analysis of such major chemical accidents and evaluate responses;
- c. review district off-site emergency plans with a view to examine its adequacy in accordance with the Manufacture, Storage and Import of Hazardous Chemicals, Rules, and suggest measures to reduce risks in the Industrial pockets;
- d. review the progress reports submitted by the State Crisis Groups;
- e. respond to queries addressed to it by the State Crisis Groups and the District Crisis Groups;
- f. publish a State-wise list of experts and officials who are concerned with the handling of chemical accidents;
- g. render, in the event of a chemical accident in a State, all financial and infrastructural help as may be necessary.

The composition CCG and Central Alert System is given at Annexure 5.2 and 5.3 respectively.

## 5.2.5 Coordination

Coordination is important and therefore a suggested coordination amongst various SCG, DCG and LCG members is shown at Chart 5.1 to 5.4.

## 5.3 Relief

### 5.3.1 Incident Response System (IRS)

i) The DM Act, 2005 mandates NDMA to lay down policies, plans and guidelines for ensuring timely and effective response to disasters to have effective relief and rehabilitation. NDMA has developed guidelines on Incident Response System (IRS). The Incident Response System (IRS) is an effective mechanism for reducing the scope for ad-hoc measures in response. In addition to CA(EPPR) Rules 1996, IRS is also relevant.

ii) The IRS organization functions through Incident Response Teams (IRTs) in the field, in line with our administrative structure and DM Act 2005. Chief Secretary at State and District Collector at District level have been designated as overall in-charge of the incident response management as Responsible Officers (ROs). The RO may however delegate responsibilities to the Incident Commander (IC), who in turn will manage the incident through IRTs. The IRTs will be pre-designated at all levels i.e. State, District, Sub-Division and Tehsil/Block. On receipt of early warning, the RO will activate them. In case a disaster occurs without any warning, the local IRT will respond and contact RO for further support, if required, a Nodal Officer (NO) has to be designated for proper coordination between the District, State and National level in activating air support for response. Apart from the RO and Nodal Officer (NO), the IRS has two main components; a) Command Staff and b) General Staff. The structure is shown in Fig. 5.1.

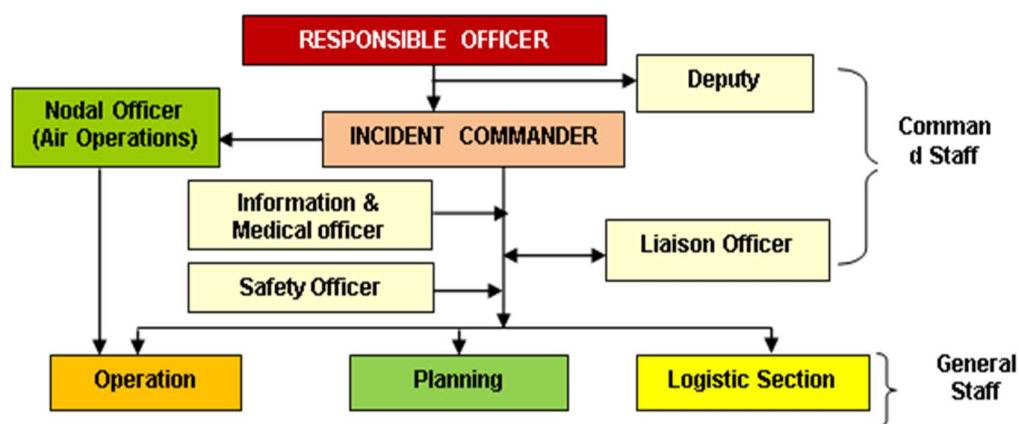


Fig. 5.1: Incident Response System

The coordination in between CA(EPPR) Rules 1996 and NDMA Guidelines is recommended in the State of Gujarat. A high level meeting can be organised to address the issue for zero tolerance. The Charts 5.1 to 5.4 need to be looked in conjunction of IRS with Fig 5.1 to 5.3 for effective mitigation.

The further down organogram for General Staff has been shown in Fig. 5.2.

iii) The basic functional level unit needs support from the functionary of the State in case of State level disaster and it will start from disaster triggered district and in need from the

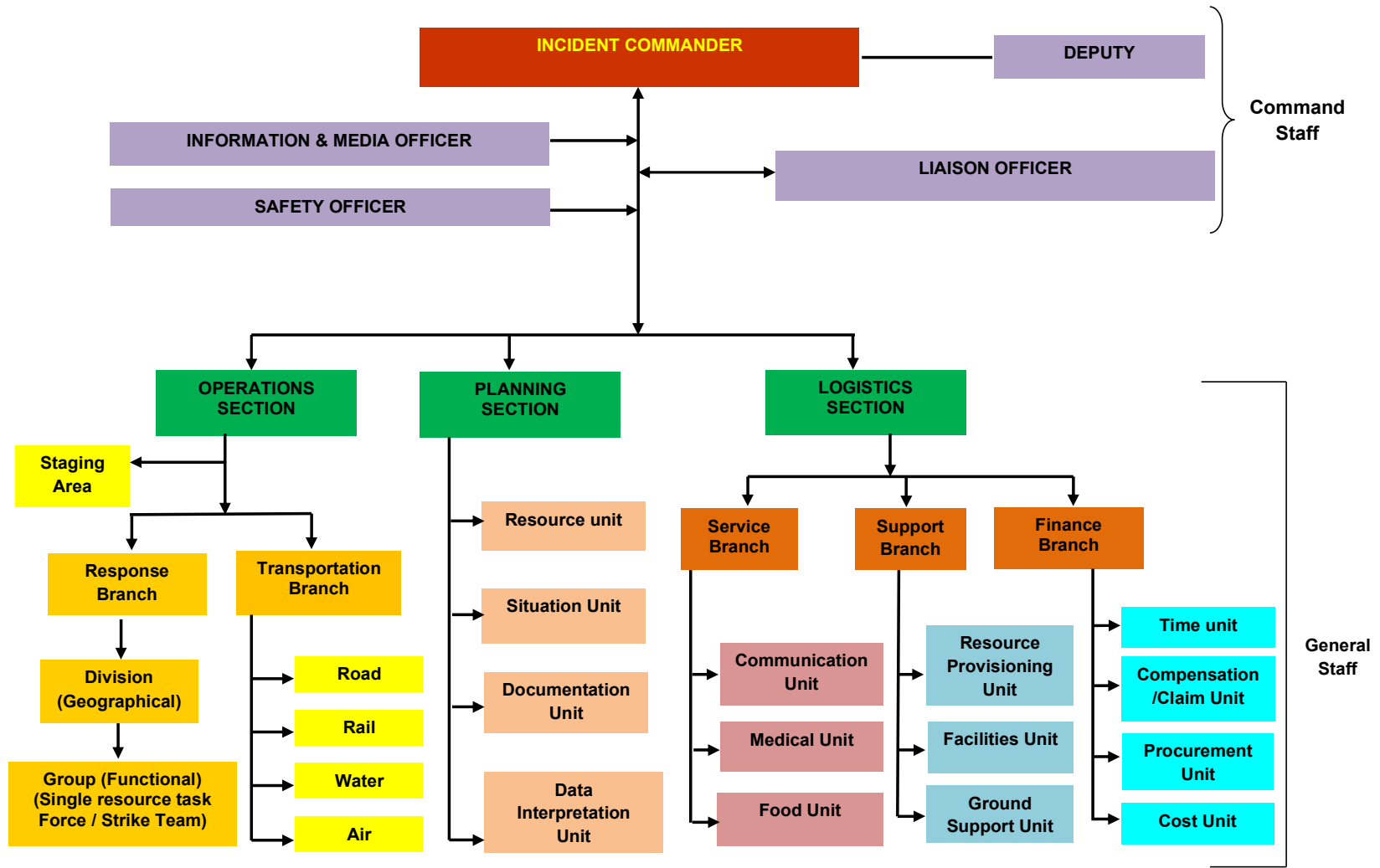
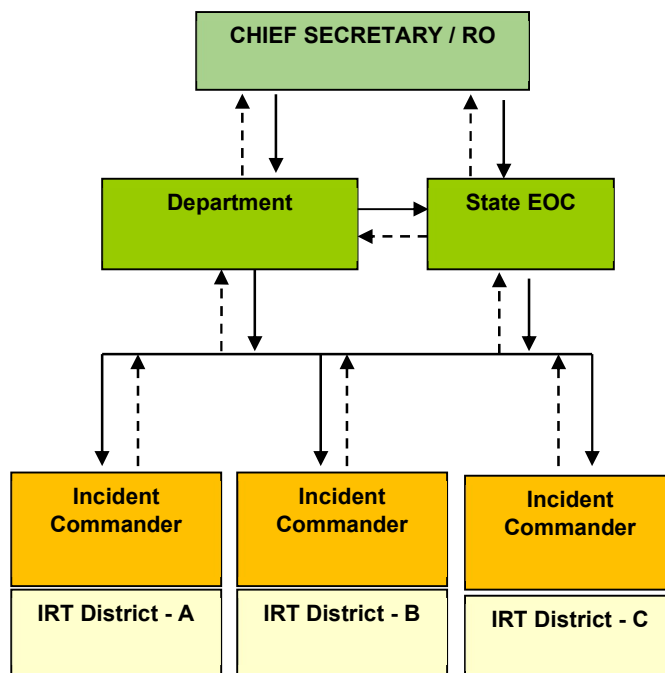


Fig. 5.2: Detailed figure of Incident Response System

neighbouring districts. Therefore, the hierarchical structure of IRS along with district as IRT in the context of the state response is shown as Fig. 5.3



**Fig 5.3: Structure of IRS along with district as IRT in the context of the state response**

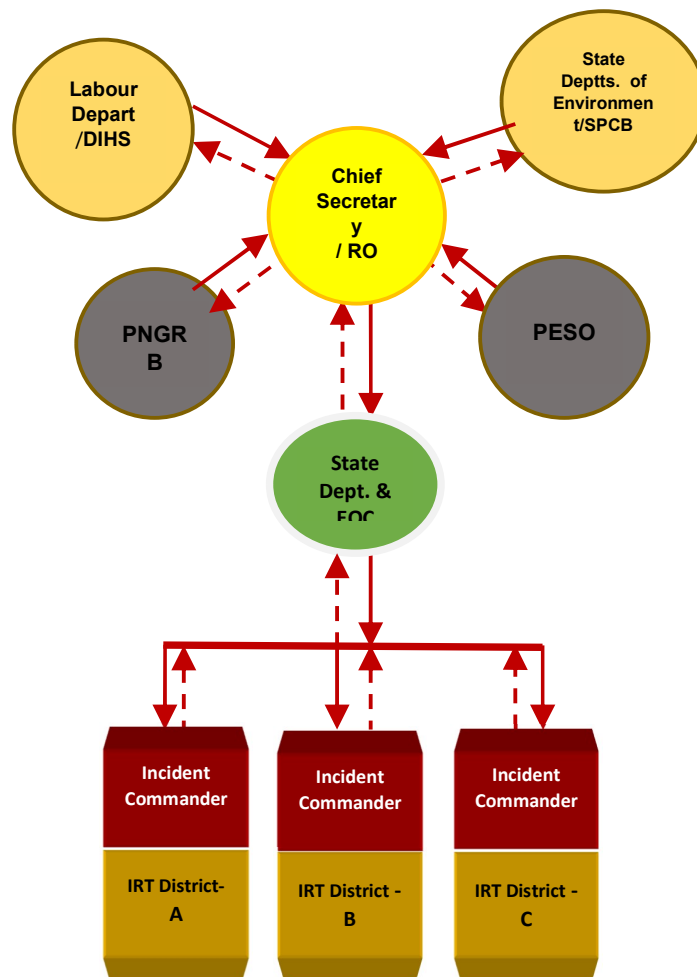
Where, chief secretary is the responsible officer (RO) the suggested structure also coordinates amongst neighbouring districts. The labour department which is handling chemical and industrial safety along with state SPCB will be the main functionaries to guide other sections of response. At the time of disaster, the relief will be provided to victims in consultation with labour department. The labour department and other state departments will help the incident commander (IC) to arrange medical relief in his district or in neighbouring district or in coordination with other districts. IRS guidelines published in 2010 by NDMA have already detailed out the role and responsibility of command staff and general staff. State Crisis Plan recommends the involvement of DISH, SPCB, PESO & PNGRB, the suggested framework for IRT & IRS for chemical industry disaster management is shown in Fig. 5.4. The roles and responsibilities of IRS with slight modification need to be drafted to make incident response system for chemical and disaster system to deal with relief and rehabilitation.

#### 5.4 Other initiatives

(i) The State Police Forces and the Fire Services are first responders to disasters. The Police Forces will be trained and the Fire Services need to be upgraded to acquire chemical hazard rescue and relief capabilities.

The mandate of the Civil Defence and the Home Guards also needs revision to assign an effective role in the field of disaster management. They will be deployed for community preparedness and public awareness. A culture of voluntary reporting to duty stations in the event of any disaster will be promoted.

State Disaster Response Force and State Govt. need to be encouraged for better coordination for development of civil wardens in the area of CIDM..



**Fig 5.4: Suggested Frame work of IRT and IRS for Chemical & Industrial Disaster Management**

(ii) State should be encouraged to create response capabilities from within their existing resources. To start with, Gujarat State may aim at equipping and training one battalion equivalent force of SDRF in CIDM. They will also include women members for looking after the needs of women and children. NDRF battalions and their training institution will assist the State in this effort. The State will also be encouraged to include CIDM training in their respective Police Training College, for gazetted and non-gazetted officers.

iii) Potential of National Cadet Corps (NCC), National Service Scheme (NSS) and Nehru Yuva Kendra Sangathan (NYKS) youth-based organizations should be optimized to support all community-based initiatives and CIDM training would be included in their programmers of relief and rehabilitation.

State Crisis Plan advocates to develop close cooperation and coordination at the international level in all spheres of CIDM.

Places where District Crisis Groups (DCGs) & Local Crisis Groups (LCGs) have been formed in Gujarat State are given in Annexure 5.4. While Annexure – 5.5 provides information of District EOC and Important Numbers.

## **5.5 Chemical Disaster Relief**

### **5.5.1 Financial Relief**

State Crisis Plan recommends action for amendments in PLI Act 1991 for relief of victim of chemical accidents/ disasters. Gujarat State can take lead in this endeavour. In our country only the referred act deals about the relief of the victims in off-site area.

State is highly industrialised and has Global leaders like Reliance, hence under Corporate Social Responsibility (CSR) relief criteria should be worked out for the industrial pockets.

The Finance Commission has made provisions of fund for the State Disaster Response Fund (SDRF) keeping in view of the provision of the DM Act 2005. DISH should take a view on GIDM with other disasters in consultation with GSDMA to address local need.

### **5.6 Response with NDRF and SDRF**

For the purpose of specialized response to a threatening disaster situation or disasters /emergencies both natural and man-made such as those of CBRN origin, the DM Act, 2005 has mandated the constitution of a NDRF. The general direction and control of this force is vested in and exercised by the NDMA and the command and supervision of the Force will vest in an officer appointed by the Central Government as the Director General of NDRF. Presently, the NDRF comprises 16 battalions.

These battalions are located at strategic locations and will be deployed proactively as required. NDRF units will maintain close liaison with the designated State Governments/UTs and will be available to them in the event of any serious threatening disaster situation. While the handling of all natural disasters rests with all the NDRF battalions, presently all have been equipped and trained to respond to situations arising out of chemical, biological, radiological and nuclear (CBRN) emergencies. The NDRF units will also impart basic training to all the stakeholders identified by the State Governments in their respective locations. Presently the location and area of responsibility of the various NDRF battalions in the country is given in Map 5.1

State Crisis Plan also recommends that CBRN specialized battalions must have regular interaction with state govt and also participate in GDMA/SCG meeting and therefore, immediate amendment is required in the schedule 6 of the composition of SCG in Rule 6 (2) of CA(EPPR) Rules, 1996.

State Crisis Plan recommends to have specialized training for SDRF battalion to understand the behaviour of chemicals and their properties likely hazardous due to chemicals and antidotes to victims. These battalions should also be exposed to important industrial area of Industrial estates and the ports handling and storing hazardous chemicals in Gujarat state. These battalions i.e. both NDRF and SDRF also need exposure about those highways which are loaded with high density of transportation of hazardous chemicals for overall capability development.

NDRF has 16 Battalions across the nation and all are now equipped with multi hazards response and action, therefore a strong network should be established by DISH in coordination with GSDMA and SDRF to tackle all types of chemical accidents including ports and roads. Map 5.1 shows the location of all NDRF batalions.

After Japan Tsunami of 2011 it is recommended that robust guidelines & policies are needed to look after for overall response, preparedness, planning, prevention, rehabilitation in natural calamity zones having high density of process industrial activity with hazardous chemicals.

The design of shelters should be eco-friendly and in consonance with local culture. It would be desirable for GDMA/SCG to plan during period of normalcy in consultation with NDMA review the On-site and Off-site emergency plans made as per the provision of MS&IHC rules. The ERDMP of Oil & Gas sector as per the Regulation of PNGRB should also be consulted.

## 5.7 Other Points on Relief and coordination

(i) The relief needs to be prompt, adequate and of approved standards. NDMA has prepared Guidelines on “Minimum Standards of Relief- February 2016” need to be looked in general and a Guideline for Gujarat State due to Chemical disaster needs to be drafted jointly by GSDMA, DISH along with relief department, as Gujarat State is highly industrialized state. The guidelines should address the following issues on priority looking to the need for chemical industrial disasters: Relief Camps: DDMA/DCGs, especially in recurring disaster-prone areas, may identify locations for setting up temporary relief camps. Agencies to supply the necessary stores item should be identified in the pre-disaster phase. The use of premises of educational institutions for setting up relief camps needs to be discouraged. The temporary relief camps should have adequate provision of drinking water and bathing, sanitation and essential health care facilities. Wherever feasible, special task forces from amongst the chemical disaster affected families will be set up to explore the possibility of providing food through community kitchens, and provision of education through the restoration of schools and anganwadis. Efficient governance systems like entitlement cards, laminated identification cards etc., will be developed as a part of uniform humanitarian governance practices through the respective SDMA / SCGs. Management of Relief Supplies: - Ensuring minimum standards of relief and speedy management of supplies are important features of relief operations. SOPs should be put in place for ensuring the procurement, packaging, transportation, storage and distribution of relief items, which needs to be carried out in an organised manner. The affected community and local authorities need to work in coordination in managing the relief camps. Guidelines need to be evolved to manage the donations received in cash or kind to ensure transparency and accountability.

(ii) Review of Standards of Relief: - In most states the existing standards of relief are for natural disaster. The standards and reliefs need to be reviewed thoroughly state wise by taking a view of level of industrialization and types of the chemical hazards. The standard for relief may vary from states to states. State Crisis Plan recommends to for coordination in between GDMA and SCG to develop standards of relief for chemical industrial disaster considering the following: -

- Type and density of chemical industries
- Quantity of hazardous chemicals. Priority should be given to LPG, Propane, Chlorine, Ammonia, Bulk storage of petroleum products, Blast furnace, corex gas and hydrogen
- Area of high vulnerability and risk
- Relief camp should be out from vulnerable zones.
- Fire fighting capabilities of municipal / local facilities should also be considered.
- The medical capabilities to provide relief in chemical fire, and chemical toxicity.
- Availability of water resources
- The designated path ways for movability of relief material,
- Activities under CSR

(iii) In the aftermath of any major chemical disaster, like Union Carbide India Limited Bhopal, the demand to generate temporary livelihood always arises to the affected community. The State Governments should recognize this aspect in their DM planning process. Any such option must ensure that the assets, infrastructure and amenities created are hazard resistant, durable, sustainable, and cost-efficient. In the case of devastating chemical disasters, where extreme weather conditions can be life threatening or when the period of stay in temporary shelters is likely to be long and uncertain, construction of intermediate shelters with suitable sanitary facilities should be undertaken to ensure a reasonable quality of life to the affected people. The rehabilitation is very crucial when natural disaster is the triggering mechanism for chemical disaster especially due to earthquake or flood or cyclone

leading to chemical disasters. Gujarat SDMA with DISH should develop a dedicated action plan in the coastal area which are prone to cyclone.

(iv) The Chemical Emergency Preparedness Plan is a shared responsibility of the Government of Gujarat and the management of the chemical industries. There must be regular meetings of the officials at the state and district level and the representatives of the chemical industries to review the preparedness / measures. A joint sector program in chemical safety is the foundation on which the emergency response plan can be effective.

(v) All the MAH factories have updated their On-Site Emergency Plans, which have been reviewed by the Deputy/Asstt. Director, Industrial Safety and Health. MAH units conduct mock drills of the On-site emergency plans regularly. The amended MSIHC rules, 1994 lays down the requirement of a full scale mock trial of the on-site emergency plan every six months.

(vi) All the factories have shown due diligence in instituting safety management mechanisms in their premises in accordance with the provisions of the Factories Act.

(vii) All the districts have prepared an Off-Site Emergency response plan for chemical and hazardous substances.

(viii) The Western railway has prepared its response plan for the entire railway network in Gujarat

(ix) Gujarat Maritime board and the Kandla Port trust have prepared their respective response plans for the ports and coastal area waters of Gujarat

(x) As per Gujarat Disaster Management Act, 2003, different departments have prepared their own departmental crisis plan e.g. Police, Health, Transportation etc.

(xi) The district-level Chemical Emergency Preparedness Plans are available to all the members of the District Crisis Group.

(xii) All the participating agencies in the Chemical Emergency Preparedness Plans such as the police, fire services, and medical services have participated in the mock exercises and rehearsals. According to the MSIHC rules, a full-scale mock drill of the district off-site emergency plan is carried out every year in the presence of concerned District Magistrate.

(xiii) There is a mutual aid agreement among fire stations belonging to different agencies.

(xiv) There is a mutual aid agreement among neighbouring chemical factories.

(xv) Gujarat State Disaster Management Authority, (GSDMA) is main coordinating agency with NDMA and NDRF at the time of disaster, the details of contact numbers of GSDMA are given at Annexure 5.6.

(xvi) At the time of chemical/industrial disasters technical experts who are knowledgeable and have field experience along with process engineering and about chemicals are needed by authorities, hence the details about experts with their contact numbers are given at Annexure 5.7. MoEF&CC also publishes the RED BOOK which provides information about experts nationwide.

(xvii) Other important contacts details are give in Appendix no 3 to 14.

Appendix 3: SEOC

Appendix 4: Secretaries of Gujarat State

Appendix 5: Police Commissioners and DIGs

Appendix 6: District Collectors

Appendix 7: Control Room – Central & State

Appendix 8: BN, NDRF, Airforce Gandhinagar

Appendix 9: Inter -District and Inter-State Aspects

- (xviii) The impact of Hazardous chemicals at the time of major accidents or disaster may extend beyond the boundary of the state in the neighbouring districts of the states of Rajasthan, Madhya Pradesh, Maharashtra and Daman and Diu. About 500 Km boundary is also shared with Pakistan hence international issues should also be addressed at national level seriously. The Appendix 17 needs to be looked by state authorities like GSDMA and DISH with NDMA and CCG.

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**Annexure – 5.1**  
**Constitution of State Crisis Group, Gujarat**

1.	Chief Secretary	Chair Person
2.	Additional Chief Secretary/Principal Secretary, Labour ,Skill Development and Employment Department	Member Secretary
3.	Principal Secretary, Forest & Environment Dept.	Member
4.	Secretary, Health & Family Welfare dept.	Member
5.	Principal Secretary, Industries & Mines Dept.	Member
6.	Secretary (Transport), Home department.	Member
7.	Secretary (Water Supply), Narmada Water resources and Water Supply Department.	Member
8.	Director General and Inspector General of Police, Police Bhavan, Gandhinagar.	Member
9.	Chairman, Gujarat Pollution Control Board, Gandhinagar	Member
10.	Director Industrial Safety & Health.	Member
11.	Chief Fire Officer, Ahmedabad Municipal Corporation, Ahmedabad	Member
12.	Additional Chief Executive Officer, Gujarat State Disaster Management Authority, Gandhinagar.	Member
13.	<p>Experts (Industrial Safety &amp; Health) nominated by the State Government</p> <ol style="list-style-type: none"> <li>1. Atul Sawant, Head- HSE, Company: -Bayer Vapi Private Limited, M:9727745666</li> <li>2. Vijay Asar, Chief coordinator, Disaster prevention and management centre (DPMC), Ankleshwar, Dist. Bharuch, M: 9825078221, 02646-220229</li> <li>3. Vishnu Shankar Mishra , Chief (Safety &amp; Fire service), M: 9979853450</li> <li>4. Babu Bhai Mahadevbhai Desai, Industrial Environment and Management from MGLI, M: 9909980431</li> <li>5. Sauhard Rawat, Head Safety, IFFCO, Kandla, M: 9979718333</li> <li>6. Devendra Thakur, AGM Safety &amp; Health, Tata Chemicals Limited, Mithapur 361345, M: 6355239040</li> <li>7. Nitin Varade, DGM-HSE, Dorf ketal industries, Mundra, M: 9637681288</li> <li>8. Prabhanjan Dixit, VP &amp; Head –HSEF, Nayara Energy Ltd., Jamnagar M: 9909908685</li> <li>9. Sunilkumar, Head Safety, Reliance Industries Ltd. Jamnagar, M: 9766586727</li> <li>10. Shrey Bansibhai Patel, Chartered Chemical Process Engineer, Ahmedabad, M: 9909950916</li> </ol>	Member
14.	<p>One representative from the industries to be nominated by the State Government.</p> <p>Natwarlal Patel (Managing Director) Meghmani Organics Limited, Mobile no.: -9825006833</p>	Member

**Annexure – 5.2**  
**Composition of District Crisis Group, Gujarat**

1	District Collector	Chair Person	Overall command and control
2	Inspector of Factories	Member-Secretary	Inter departmental Co-ordination, Conducting mock drills, Preparation of off site emergency plan
3	District Energy Officer	Member	Electric supply restoration
4	Chief Fire Officer	Member	Fire Fighting operation and rescue
5	District Information Officer	Member	Communication, public awareness
6	Controller of Explosives	Member	Technical Expertise on explosive material involved
7	Chief, Civil Defense	Member	Relief distribution, shelter management
8	One Representative of Trade Unions to be nominated by the District collector	Member	Evacuation support, shelter management
9	Deputy Superintendent of Police	Member	Traffic control, area cordoning, law and order, evacuation support
10	District Health Officer/Chief Medical Officer	Member	Medical emergency management, activation of hospitals and ambulance, medical surveillance and toxicological support
11	Commissioner, Municipal Corporations	Member	Evacuation support, relief and shelter management
12	Representative of the Department of Public Health Engineering	Member	Medical support
13	Representative of Pollution Control Board	Member	Environment monitoring
14	District Agriculture Officer	Member	Evacuation support, Community awareness
15	4 Experts (Industrial Safety & Health) to be nominated by the District Collector	Member	Technical guidance on chemical hazard, evacuation support

16	Commissioner (Transport)	Member	Logistic support, Infrastructure restoration
17	One Representative of Industry to be nominated by the District Collector	Member	Mutual aid coordination
18	Chair-person/Member-Secretary of Local Crisis Groups	Member	On site emergency response support, mutual aid coordination

**Annexure 5.3**  
**Central Crisis Group**

S.No.	Name/Designation	Telephone	Fax	Email / Web-site
1.	Shri Ashok Lavasa Secretary, Gol, MoEF & CC New Delhi	011- 24695262, 011 - 24695265	24695270	<a href="mailto:secy@menf.delhi.nic.in">secy@menf.delhi.nic.in</a>
2.	Shri B. Sinha Joint Secretary, Gol, MoEF & CC New Delhi	011- 24695274 99997-11816	011- 24695277	<a href="mailto:bsinha92@gmail.com">bsinha92@gmail.com</a>
3.	Shri Rakesh Garg Secretary, Deptt. of Telecommunications, New Delhi	011- 23719898	011- 23711514	secy-dot@nic.in
4.	Dr. S. ayyappan, Secretary, Ministry of Agriculture, New Delhi	011- 23386711 95828-98989	011- 23384773	dg.icar@nic.in
5.	Dr. P.S. Ahuja Director General, CSIR, New Delhi	011- 23710472 94180-30411	011- 23710618	dgcsir@csir.res.in
6.	Shri Susheel Kumar Chairman, CPCB, Delhi	011- 22307233	011- 22304948	<a href="mailto:ccb.cpcb@nic.in">ccb.cpcb@nic.in</a>
7.	Dr. A.J.V. Prasad Joint Secretary, Chemical, Ministry of Chemical & Fertilizers, New Delhi	0712- 2510103  0712- 2510102	011- 23383428 9868177347	<a href="mailto:ajv.prasad@nic.in">ajv.prasad@nic.in</a>
8.	Joint Secreary, Deptt. of Labour & employment, New Delhi	011- 23710239	011- 23710239	<a href="mailto:m_srao@ub.nic.in">m_srao@ub.nic.in</a>
9.	Dr. V.m. Katoch Director General & Secretary, Indian Council of Medical Research	011- 26589620 9910053701	011- 26588662	<a href="mailto:dg@icmr.org.in">dg@icmr.org.in</a>
10.	Sri O.P. Singh Director General, NDRF, Ministry of Home Affairs, Gol, New Delhi	011- 26715303 9818564455	011- 26715303	dg.ndrf@nic.in
11.	Shri D.K. Shami Fire Advisor, Ministry of Home Affairs, New Delhi	011- 26712951 9868233999	-	-
12.	Shri P. C. Shrivastava Chief controller of Explosives, Deptt. of Explosive, Gol, Nagpur	0712- 2510103 9403592438	9403592438	pcsrivastava@explosives.gov.in

13.	Shri Atul Chaturvedi Joint Secretary, DIPP, Ministry of Commerce & Industry, New Delhi	011- 23062983 9810283211	011- 23061034	<a href="mailto:atul.chaturvedi@nic.in">atul.chaturvedi@nic.in</a>
14.	Shri N.B. Dhand, Joint Secretary, Ministry of Health & Family Welfare, new Delhi	011- 23061706 9650211500	011- 23061398	-
15.	Shri S.K. Lohani, Joint Secretary, Ministry of Chemical & Fertilizers, Gol, New Delhi	011- 23381294 8860614425	011- 23386639	sk.lohani@nic.in
16.	Shri Barun Mitra, Joint Secretary, Ministry of Shipping & Transport, New Delhi	011- 23710189	011- 23722855	-
17.	Shri Sanjay Bandopadhyay, joint Secretary, Ministry of road Transport & highway, New Delhi	011- 23351061	011- 23311802	-
18.	Shri Sanjiv Garg, Director, Safety, Ministry of Railways.	011- 47843239 9818798390	011- 23386215	-
19.	Shri V.S. Moray, Director, Industrial Safety & Health, Mumbai	022- 26114184 8425887821	022- 26572474	-
20.	Shri S.B. Mathur, D.G., Factory Advice Service & Labour Institute, Mumbai	022- 24074358	022- 24071986	-
21.	Shri C.S. Nautiyal, Director, IITR, Lucknow	022- 22047649, 22048043	0522- 222621856 9415511111	<a href="mailto:director@iitrindia.org">director@iitrindia.org</a>
22.	Dr. Sunil Kumar, Director, National Institute of Occupational Health, ICMR, Ahmedabad	079- 22686142 9426395738	079- 22686110	<a href="mailto:sunilnioh@yahoo.com">sunilnioh@yahoo.com</a>
23.	Shri S.K. Hazra, Chairman, Sustainable Responsible Care, SHE Expert Committee, Kolkata	033- 23370843 9007142184	-	<a href="mailto:skhazra@powergas.com">skhazra@powergas.com</a>
24.	Shri K.L. Singh, Director (Tech.), IFFCO, New Delhii	011- 42592604 9871146447	011- 40593004	-
25.	Dr. Chitra Rajagopal, Director, Centre for Fire, Explosive & Env. Safety, DRDO, New Delhi	011- 23813239	011- 23819547	<a href="mailto:director@cfees.drdo.in">director@cfees.drdo.in</a>
26.	Shri P. Raghavendran, President, Refineries, RIL, Mumbai	022- 44770343 9867009468	022- 44770442	p.raghavendran@ril.com

**Annexure - 5.4**  
**Places where District crisis Groups (DCGs) & Local Crisis Groups (LCGs) have been Formed in Gujarat State**

Sr. No.	District	DCG	LCG
1	Ahmedabad	Ahmedabad	1. Vatva - Narol 2. Odhav - Rakhiyal - Naroda - Sabarmati 3. Sanand - Bavla - Viramgam- Mandal
2	Amreli	Amreli	--
3	Anand	Anand	Anand
4	Arvalli	Arvalli	--
5	Banaskantha	Banaskantha	--
6	Bharuch	Bharuch	1. Ankleshwar - Panoli - Hansot 2. Jhagadia - Valia-Netrang 3. Bharuch - Vagra - Jhambusar
7	Bhavnagar	Bhavnagar	--
8	Botad	--	--
9	Chhotaudepur	--	--
10	Dahod	--	--
11	Dang	--	--
12	Devbhumi Dwarka	Devbhumi Dwarka	--
13	Gandhinagar	Gandhinagar	Kalol-Mansa
14	Gir Somnath	Gir Somnath	--
15	Jamnagar	Jamnagar	--
16	Junagadh	Junagadh	--
17	Kheda	Kheda	Kheda
18	Kutch	Kutch	1. Bhuj 2. Gandhidham - Anjar 3. Mundra
19	Mahisagar	--	--
20	Mehsana	Mehsana	Kadi
21	Morbi	Morbi	1. Morbi 2. Wankaner
22	Narmada	--	--
23	Navsari	Navsari	Navsari
24	Panchmahal	Panchmahal	--
25	Patan	Patan	--
26	Porbandar	Porbandar	--
27	Rajkot	Rajkot	1. Rajkot -Lodhika 2. Kotda Sangani-Gondal
28	Sabarkantha	Sabarkantha	--
29	Surat	Surat	1. Surat City 2. Olpad - Choryasi 3. Bardoli - Mahuva 4. Kamrej - Palsana
30	Surendranagar	--	--
31	Tapi	Tapi	--
32	Vadodara	Vadodara	1. Savli 2. Padra 3. Vadodara -Nandesari- PCC
33	Valsad	Valsad	1. Atul 2. Vapi

**District Crisis Group – 26, Local Crisis Group – 27**  
**The details of each of the DCGs and LCGs are given in Appendix - 2**

**Annexure – 5.5**  
**DEOC (District Emergency Operation Centre) contact details**

<b>Sr. No.</b>	<b>Name</b>	<b>Duty Station</b>	<b>Designation</b>	<b>Landline</b>	<b>Mob. No.</b>
1	Himansu Manubhai Solanki	Ahmedabad City	Project Officer	079- 26580952	7984959534
2	Kinjal D Pandya	Ahmedabad City	District Project Officer	079-27560511	7878128303
3	Shaileshbhai Ukabhai Parmar	Amreli	District Project Officer	02792-230735	9913486219
4	I/C. DPO Panchmahal	Anand	District Project Officer	02692-243222	
5	Brijeshkumar Arvindsinh Mahida	Arvalli	District Project Officer	02774- 250221	8320363808
6	Sanjay Chauhan	Banaskatha	District Project Officer	02742-250627	9537511458
7	Mohammadvarish Nisarhusain Chadiyali	Bharuch	District Project Officer	02642-265050	9173285269
8	Dimpal Teraiya	Bhavnagar	District Project Officer	0278-2521554	9824438275
9	Bambhaniya Nitinkumar Ranchhodbhai	Bhavnagar Municipal Corporation	Project Officer		8238928061
10	Botadra Mehul Manjibhai	Botad	District Project Officer	02849-271341	9624731931
11	Dhrupen Hasmukhbhai Patel	Chhotaudepur	District Project Officer	-	9727117711
12	Gadeeluhar Jayesh Kumar Gopalbhai	Dahod	District Project Officer	02673-239277	9106863595
13	Chintan Patel	Dang	District Project Officer	02631-220346	8866641248
14	Langha Vaseem Jusa B.	Devbhumi Dwarka	District Project Officer	02833-232125	9558009554
15		Gandhinagar Municipal Corporation	Project Officer	079-23256639	
16	Maulik kumar Pravinchandra Pandya	Gandhinagar	District Project Officer		9724354455
17	Kratu Trivedi	Junagadh	District Project Officer	02876-243344	9426969236
18	Yakin Shivani	Junagadh MC	Project Officer	-	9427433979

<b>Sr. No.</b>	<b>Name</b>	<b>Duty Station</b>	<b>Designation</b>	<b>Landline</b>	<b>Mob. No.</b>
19	Padaliya Binakumari Anilkumar	Jamnagar	District Project Officer	0288-2553404	7567258072
20	Paresh Vinodbhai Rathod	Jamnagar Municipal Corporation	Project Officer		9662501051
21	Mukeshbhai Jentibhai Jadav	Gir somnath	District Project Officer	0285-2633447	8849903354
22	Sachee Desai	Kheda	District Project Officer	0268-2553357	9725678973
23	Nirav Rajubhai Dyma	Kutch	District Project Officer	02832-252347	9537491131
24	Jigar Makwana	Mahisagar	District Project Officer	02674-252300	9898100757
25	Kinjalben Bachubhai Prajapati	Mehsana	District Project Officer	02762-222220, 99	7096992296
26	Amit Padhariya	Morbi	District Project Officer	02822-243300	7874387678
27	I/C. Ankit Parmar, Consultant 115	Narmada	District Project Officer	02640-224001	9714343111
28	Ms. Dhartiben Ramanbhai Gamit	Navsari	District Project Officer	02637-259401	9328937011
29	Viral Christian	Panchmahal	District Project Officer	02672-242536	9510843873
30	Kamlesh Patel	Patan	District Project Officer	02766-224830	9426533915, 8200442665
31	Gautam Vala	Porbandar	District Project Officer	0286-2220800	8000256651
32	Pooja Vaghmore	Rajkot	District Project Officer	0281-2471573	9558710558
33	Bhaskar Hasmukh Lakhabhai	Rajkot Municipal Corporation	Project Officer		7984161037
34	Kajal Makwana	Sabarkantha	District Project Officer	02772-250221	9714856277
35	Parghi Varshaben G.	Surendranagar	District Project Officer	02752-283400	7510574912
36	I/C. PO Surat	Surat	District Project Officer	0261-2663200	
37	Nital Doshi	Surat City	Project Officer	0261-2452807	9426845383, 7984167178

<b>Sr. No.</b>	<b>Name</b>	<b>Duty Station</b>	<b>Designation</b>	<b>Landline</b>	<b>Mob. No.</b>
38	Karnelyesh Gamit	Tapi	District Project Officer	02626-223332, 224460, 224450	9825920032
39	Chirasmita Barik	Vadodara	District Project Officer	0265-247592	8866621514
40	Elic Parmar	Vadodara City	Project Officer	0265-2433116	8866640379
41	Jayvirsinh Raol	Valsad	District Project Officer	02632-243238	9712994325, 7878319376

**Annexure- 5.6**

**Gujarat State Disaster Management Authority, (GSDMA)**

<b>No.</b>	<b>Designation</b>	<b>(O)</b>
<b>1.</b>	CEO	079-23259502
<b>2.</b>	Director, GSDMA	<b>9925007405</b>
<b>3.</b>	Director, Admin, GSDMA	<b>079-23259292</b>
<b>4.</b>	Director, Finance, GSDMA	<b>8128598222</b>

**Annexure – 5.7**  
**LIST OF TECHNICAL EXPERTS**

Sr. No.	Name and Designation	District	Contact No.
1.	Shri Babu Desai, Safety Head Meghmani Organics Ltd., Vatva, Ahmedabad	Ahmedabad	9909980431
2.	Shri Gokhale, Safety Head IOCL, Viramgam	Ahmedabad	9650100901
3.	Vijay Asar Chief coordinator Disaster Prevention and Management Centre (DPMC), Ankleshwar, Dist. Bharuch	Bharuch	9825078221
4.	Pradip Keshwani Head Safety GSFC	Bharuch	8200261954
5.	Sanjay Patel Head Safety GACL, Dahej	Bharuch	7069010861
6.	Aditya Kumar Head Safety Adani Port, Hazira	Surat	6358015572
7.	Paresh Tailor Head Safety Colourtex Ltd.	Surat	9825139950
8.	MR MILAN PATEL SAFETY OFFICER JAY CHEMICAL PVT.LTD,KALAMSAR,KHAMBHAT	Anand	9099918793
9.	MR.HEMANTBHAI PATEL SAFETY OFFICER SHITAL CHEMICAL INDUSTRIES,GROUP	Anand	9377928905
10.	MR.VIJAYBHAI MUJPURA SAFETY OFFICER TRION CHEMICAL LTD,NEJA, KHAMBHAT	Anand	7069046798
11.	MR.MANISH CHAUHAN SAFETY OFFICER CAMBAY ORGANICS PVT LTD.SOKHDA	Anand	9106825885
12.	MR.NARENDRA TATOD SAFETY OFFICER KAIRA DISTRICT CO-OPERATIVE MILK PRODUCERS UNION LTD	Anand	9909870690
13.	Shri Manojkumar Senior Manager H.P.C.L. At- Chandisar, Ta Palanpur , Dist Banaskantha	Banaskantha	9702093095
14.	R.K.SHARMA DGM IFFCO - KALOL	Gandhinagar	8905784649
15.	K.V.GANATRA Manager DADDY CHEMICAL - KALOL	Gandhinagar	9924078784
16.	SUSHIL KUMAR Manager HPCL - SARDHAV	Gandhinagar	9594820637
17.	CHETAN PATEL Manager BAYAR CROP SCIENCE LTD - HMT	Gandhinagar	9924448815
18.	KIRTIBHAI TRIVEDI Manager AGL – DALPUR,HMT	Sabarkantha	9909979820
19.	ANIL J PATEL Manager NEON FUEL LTD – BHILODA, ARVALLI	Arvalli	9426060920

20.	Ramesh Karmur Terminal Manager SHV Energy Pvt Ltd, Javar Naka, Porbandar	Porbandar	9879523253
21.	Rajesh Rajput Manager Safety Grasim Industries Ltd (Indian Rayon), Veraval	Junagadh	9408766682
22.	Shri Bhaskarbai Soni Safety Officer Nirma Limited At-Mandali , Ta & Dist Mehsana	Mehsana	9428553950
23.	Shri Ileshbhai Parikh E.H.S.Head Torrent Pharmaceuticals At-Rajpur Ta Kadi Dist –Mehsana	Mehsana	9327024356
24.	Shri Ashishkumar K.Patel E.H.S.Head Ambuja Intermediates At-Rajpur Ta Kadi Dist –Mehsana	Mehsana	7624009534
25.	Mr. Rajesh Patel Tech operation KUSA CHEMICALS PVT. LTD. Godhra, Panchmahal	Panchmahal	9925039836
26.	Mr. Nikhil Rajee R&D Operation GUJARAT FLUOROCHEMICALS LTD. Ghoghamba, Panchmahal	Panchmahal	70211 31392
27.	Dr.Mayank Joshi EHS Head PAUSHAK LIMITED, Halol, Panchmahal	Panchmahal	6356205131
28.	Mr. parvej Bata Plant Head STYRENIX PERFORMANCE MATERIALS LIMITED At - katol, kalol, Panchmahal	Panchmahal	999029148
29.	Shri Prasannakumar Chief Terminal Manager I.O.C.L. At- Sidhpur, Ta- Sidhpur, ist - Patan	Patan	9488069073
30.	Shri. Nikhil Niraj Sr. Manager IOCL- Navagam	Rajkot	9771468534
31.	Shri. J.S.Tomar Safety Officer IOCL- Madhapar Jamnagar Road	Rajkot	9904358500
32.	Shri. Yasir Ahmad Sr. Manager BPCL – Malyasan	Rajkot	8967833622
33.	Mr. Vishnu B. Mishra EHS Head GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED, Po.Fertilizer Nagar, Vadodara	Vadodara	9979853540
34.	Mr. Prabhakar Kumar DGM Fire & Safety INDIAN OIL CORPORATION LIMITED (REFINERY DIVISION) P.O. JAWAHARNAGAR, VADODARA	Vadodara	7573019360
35.	Mr. NirmalSingh Balli Safety Head SUD CHEMIE INDIA PVT. LTD. G.I.D.C. NANDESARI, VADODARA	Vadodara	9099014792
36.	Mr. Paresh Randeriya Safety Head GUJARAT ALKALIES AND CHEMICALS LIMITED P. O. PETROCHEMICALS, VADODARA	Vadodara	9408250505

37.	Mr. Darshan Desai ESH Manager RELIANCE INDUSTRIES LIMITED VADODARA MANUFACTURING DIVISION, P.O.PETROCHEMICALS, VADODARA	Vadodara	9998987169
38.	Nimesh Nayak Deputy Zone Head Aarti industries Ltd. Plot No. 801 & 801/23, 802,803 804/1,2,3 & 801/15 TO 19, Phase-3, G.I.D.C., Vapi, Ta : Vapi, Dist ; Valsad	Valsad	9727782109
39.	Atul Sawant Head Officer (H.O.D.) Bayer Vapi Pvt. Ltd., Vapi Dist ; Valsad	Valsad	9727745666
40.	Giridhar Goda Deputy Manager Atul Ltd, Atul At.Po.- Atul, Ta & Dist : Valsad	Valsad	7984809498
41.	Sunilkumar Safety Head Reliance Industries Ltd.	Jamnagar	9766586727
42.	Ashvinikumar Station Head BPCL	Jamnagar	9585890311
43.	Pragnesh Patel Safety Head GSFC Ltd	Jamnagar	8238021992
44.	Abhinandan Kumar Safety Head IOCL	Jamnagar	8811095934
45.	Devendra Thakur Safety Head Tata Chemicals Ltd.	Jamnagar	6355239040
46.	Jay Shah Factory Manager Nayara Energy Ltd.	Jamnagar	9099067448
47.	Omkar Safety Head RSPL Ltd.	Jamnagar	8308824454
48.	R. K. Sharma Asst. G.M. Nirma Ltd.	Bhavnagar	7573020761
49.	Sauhard Rawat Head- Fire & Safety IFFCO	Kutch	9979718333
50.	Nitin Varade General Manager – HSSE DORF Ketel Chemicals India Ltd.	Kutch	9637681288
51.	Dharamshi Agariya General Manager Ahir Salt and Allied Products Pvt. Ltd.	Kutch	9925247904
52.	Nilesh Patel Technical Director Windson Chemical Pvt. Ltd.	Navsari	9925330263
53.	Mitesh Rathod CEO Swastik Oil Products Mfg. Navsari Pvt.Ltd.	Navsari	9426313461
54.	Dhirajlal Mohanlal Kapadiya Distillery Manager Sahakari Khand Udyog Mandal Ltd.	Navsari	9879112486
55.	Alpesh Patel Sr. Executive Gufic Biosciences Ltd.	Navsari	7228993413

## Chapter – 6

### The Medical Management Plan

#### 6.1 Routes of Exposure

Human exposure to chemical releases can occur through air, food and drink, water or direct dermal contact with the chemical.

Chemical fires and releases into the air due to failures of production, storage containers, road and rail tankers or pipelines are the most common incidents involving human exposure.

During the release, health effects from dermal exposure and inhalation can be expected. In the post-impact phase, the greater risks are dermal exposure, through contact with contaminated objects, and ingestion of contaminated food or water.

Incidents involving drinking-water supplies have not been very important worldwide because most chemical contaminants are readily detectable by smell or taste, and thus people usually avoid drinking water containing them.

Food-borne incidents, on the other hand, have given rise to major outbreaks of chemical-induced disease, such as toxic oil syndrome and organic mercury poisoning. Epidemiologists need to be aware that apparently inexplicable disease outbreaks may be the first evidence of a toxic release into the community.

#### 6.2 Identification of Chemicals

It is necessary to identify the chemicals involved in order to:

- anticipate their likely harmful effects;
- develop working case definitions of exposed and injured individuals and set criteria for threshold quantity.
- determine medical treatment for the injured and need for specific medication, decontamination, and follow-up regimens for those exposed;
- provide protective equipment for rescue personnel.

#### 6.3 Amount of Exposure

Toxic effects can depend on the peak levels and the duration of exposure, as well as the dose of the chemical. The behavior of individuals following the incident determines exposure and dose. For example, extreme fear and lack of preparedness may increase exposure to gases by making people flee into the path of a gas cloud, hyperventilate, or fail to take the appropriate protective measures.

Responses in target organs may vary widely in different individuals exposed to the same doses. There are three main mechanisms for differences in susceptibility:

- increased absorption
- increased effects with equally absorbed doses
- Lower threshold of effects.

For example, chemicals may be absorbed more readily through the gastrointestinal tract than through the skin, and by children than by adults. Children absorb lead faster through the intestines than through the skin. In the contamination of food and drink, dietary constituents may alter the bioavailability of the chemical.

## 6.4 Health outcome of Chemical Disasters

Although chemicals have specific modes of action and adverse effects, in most instances the mechanisms and health outcomes of exposure are unknown. In general, the adverse responses to toxic exposures may be:

- effects that are local or arise at the site of contact with the chemical, such as broncho constriction from respiratory irritants or irritation of the skin and eyes by irritant gases;
- effects that are systemic or affect organ systems remote from the site of absorption, such as depression of the central nervous system from absorption of solvents through the skin, or necrosis of the liver from the inhalation of carbon tetrachloride; and
- Effects on mental health arising from real or perceived releases, which depend on the psychological stress associated with an incident.

Mental effects can arise from disturbing experiences such as traumatic death, or fears of chronic impairment or stigmatization from chemical contamination. Post-traumatic stress disorder, chronic anxiety and depression may be prominent and lead to measurable outcomes. Acute anxiety from the fear of chemical contamination alone can induce physical states that mimic acute, toxic reactions and may lead to diagnostic confusion.

The timing of the adverse health effects after exposure may vary.

Acute effects appear within seconds or minutes, and include eye irritation, or pulmonary oedema.

- Sub-chronic effects appear within hours or days, and include delayed pulmonary oedema from phosgene, or renal failure in arsenic poisoning.
- Chronic effects appear weeks to years after exposure. These may be of the greatest concern in an incident, even in the absence of any casualties with acute or sub chronic effects, and may include cancer and reproductive abnormalities.

Chemical-induced disorders can manifest themselves in any organ system. Because the body has only a limited repertoire of disease responses, the signs and symptoms may resemble diseases arising from other causes. Unless the disorder is highly specific to the particular agent, epidemiological studies may be necessary to determine whether the occurrence of a disease in a population has increased as a result of chemical exposure.

## 6.5 Rapid Assessment of Health Consequences

A chemical emergency should be first assessed within 24 hours following the incident at the latest. A more comprehensive assessment should be carried out later.

The Department of Health will contact the nearest designated hospital for chemical emergencies and direct it to carry the rapid assessment.

## 6.6 Conducting the Assessment

The rapid assessment consists of:

- Confirming the existence of a chemical emergency
- Determining the source, site, type, size and distribution of the release
- Identifying the specific types of chemicals and their reaction by-products;
- Determining the population at risk and the health impact; and
- Assessing existing health response capacity.

## 6.7 Confirming the existence of a Chemical Emergency

The health personnel conducting the assessment should investigate the following questions:

- Has some incident happened involving chemical substances?

- Has some incident happened in or around a chemical installation?
- Has the community note dor have health facilities registered an increase in:
- irritation of the eyes, the skin, the mucous membranes?
- coughs, asthma, respiratory distress?
- neurological illness?

Clinical examination of a sample of cases will help confirm the emergency.

### **6.8 Determining the source, site, type, size, and distribution of the release**

This information is essential for defining the population at risk, the potential range of exposures resulting from the accident and the measures to be taken.

The exact size and type of incident should be determined, especially since a chemical emergency may involve one or more types of release. Other key characteristics include the size of the release (estimated weight or volume of the chemicals dispersed) and its distribution pattern (which is affected by weather conditions).

### **6.9 Identifying the types of chemicals and their reaction by- products**

The identity, quantity, and ambient air concentrations of the chemical (s) can be determined through:

- product labels (product name, UN Hazard Classification and UN Substance Identification number);
- contacting companies in charge of the manufacture, storage, transport, use or disposal of the chemicals;
- contracting chemical information centers; and
- environmental sampling.

### **6.10 Determining the population at risk and the health impact**

The Department of Health will compile following information on the basis of rapid assessment:

- Determine the population at risk. Gather information on the proximity and size of residential neighborhoods, the location and numbers of high-risk populations (e.g. individuals with chronic illnesses, pregnant women, and infants).
- Evaluate toxicological risks and human exposure pathways. Environmental exposure and body burden assessments are usually not feasible during the acute phase of the accident. These require complex sampling and labor-intensive analytical procedures.
- Describe morbidity and mortality. During the actual emergency, it is not feasible to conduct a survey. However, it is important to collect information on whether there has been increased morbidity or mortality caused by the release.

### **6.11 Assessing local response capacity**

The response capacity of health services should be assessed with particular attention to determine the following:

- availability of first-line and backup emergency medical services (including health personnel and facilities)
- availability of protective equipment;
- use of clear diagnostic criteria, standard treatment regimens, and compliance with them;

- availability of specific medication (e.g. antidotes);
- availability of facilities for decontaminating exposed individuals (including health workers); and
- Vulnerability of the health facilities to the chemical.

### **6.12 Response Planning by the Department of Health**

In major chemical incidents, the emergency services function as they would in major accidents or fires. The priorities are:

- to rescue people,
- to put an end to the fire or the release of chemicals, and
- to avoid further casualties, damage and confusion.

Fire-fighters, police officers and ambulance crews all have their assigned tasks in chemical emergencies. However, they should take precaution for exposure to contamination.

The Department of Health will assess the deployment needs of resources from outside, based on preliminary findings (e.g. qualified technical personnel, drugs, logistics, and communications support).

The Department of Health will take decisions on following issues:

- appropriate triage and case management;
- environmental control strategies to prevent further spread of chemical contaminants;
- the need for population evacuation and how to proceed: means of information and communication with community and relevant organizations, destination of evacuees, means of transport, and routes of evacuation.
- appropriate care for those evacuated to temporary shelters; and
- collection, identification, and management of dead victims.

### **6.13 Need for an Epidemiological Team**

In addition to these activities, however, there is a need to investigate the health impact, pool available data, search the literature, contact outside experts, propose necessary further investigations and advise on preventive measures. An epidemiological team, working within the framework of the emergency response group, can fulfil these tasks.

### **6.14 Protocol for Medical Management**

A chemical-specific medical management protocols for the treatment of exposed patients is enclosed herewith. The protocol must address following issues:

- Description (synonyms, appearance, routes of exposure, potential for secondary contamination, physical properties table, sources and uses);
- Health Effects (organ systems affected by acute exposure, potential sequel, effects of chronic exposure);
- Pre-hospital Management organized by Hot Zone, Decontamination zone, and Support Zone (personal protection, decontamination, support, triage, transportation);
- Emergency Department Management organized by Decontamination area and Critical Care Area (specific medical procedures to treat the exposed patient, patient disposition); and
- Patient Information Sheet (the exposure and its potential effects, follow-up instructions).

## 6.15 Treatment for Specific Hazardous Substance

International Chemical Safety Cards are available for most of the hazardous substances. These cards are available on the following web site:

<http://hazard.com/msds/mf/cards/list.html>

The Chemical Safety Card provides information for each substance on following issues:

- Types of Hazards / Exposure
- Acute Hazards / Symptoms
- Prevention
- First Aid / Fire fighting
- It also provides instructions on:
  - Spillage Disposal
  - Storage
  - Packaging and Labeling
- The Chemical Safety Card also has information on physical and chemical properties of the substance:
  - Physical State and Appearance
  - Physical Dangers
  - Chemical Dangers
  - Occupational Exposure Limits (OEL)
  - Routes of Exposure
  - Inhalation Risk
  - Effectsof Short-term Exposure

Information on all the hazardous substances may be down loaded from this web site, and can be used in emergency or pre-emergency for training and education purpose. As per MSIHC Rules Material Safety Data Sheet (MSDS) is mandatory for display of information as per Schedule – 9.

## 6.16 Minimum Tests Required for Health Hazards Assessment

- Acute oral toxicity
- Acute dermal toxicity
- Acute inhalation toxicity
- Acute eye irritation
- Skin sensitization
- Sub-chronic oral toxicity - rodent 90d
- Sub-chronic oral toxicity- non-rodent 90d
- Sub-chronic dermal toxicity: 21 or 28 d
- Sub-chronic inhalation toxicity: 28 or 14d
- Neuro-Behavioural Toxicity:
  - Functional- conditioned
  - Functional-unconditioned
- Morphological

- erotology
- Multigeneration- reproduction
- Toxicokinetics
- Carcinogenicity
- Chronic Toxicity
- Combined chronic toxicity-- carcinogenicity
- Genetic Toxicity
- Acute delayed Neurotoxicity

The antidotes for selected chemicals are given at Annexure-6.1

The Appendix-15 provides information details about Hospitals and Civil Surgeons.

## Annexure 6.1

### Antidotes for some hazardous chemicals

Sr No	Name of Chemical	Treatment / Antidotes	Availability at
1.	<b>Acids</b>	<p><b>Ingestion:</b> Give the person half to one glass of milk/water within 30 minutes of ingestion. Antacids like Aluminium hydroxide or milk of Magnesia. Do not induce vomiting.</p> <p><b>Dermal/Eye exposure:</b> Wash with plenty of water or saline for 15-20 minutes</p> <p><b>Inhalation:</b> Move to fresh air. 100% oxygen. Complete rest for 24-48 hours.</p> <p><b>Note: Do not use alkali to neutralize acid</b></p>	<p>Antacids All Medical Stores All Govt. Hospitals</p>
2.	<b>Acetonitrile</b>	<p><b>Cyanide antidotes:</b> Due to delayed toxicity, repeated doses of Cyanide antidotes may be needed for acetonitrile poisoning irrespective of route of exposure. (For cyanide antidotes see below)</p>	<p>Troika Laboratory Thol Ta. Kadi Dist. Mehsana</p>
3.	<b>Acrylonitrile</b>	<p>1. Hydroxocobalamin – Commonly used antidote for cyanide poisoning 2. Sodium Thiosulphate 3. Amyl Nitrite Move the affected person to fresh air immediately Provide oxygen and supportive medical treatment</p>	<p>At users premises</p>
4.	<b>Alkali</b>	<p><b>Ingestion:</b> Give the person half to one glass of milk/water. Do not induce vomiting</p> <p><b>Dermal/Eye exposure:</b> Wash with plenty of water or saline for 15-20 minutes</p> <p><b>Inhalation:</b> Supportive treatment</p> <p><b>Note: Do not use acid to neutralize alkali</b></p>	<p>At users premises</p>
5.	<b>Ammonia</b>	<p><b>Inhalation:</b> Move the person to fresh air</p> <p><b>Dermal/Eye exposure:</b> Wash with plenty of water or saline for at least 15 to 20 minutes</p> <p><b>Ingestion:</b> Give the person half to one glass of milk/water. Do not induce vomiting Remove contaminated cloths and wash the skin thoroughly with water</p>	<p>At users premises</p>

6.	<b>Aniline, Nitrobenzene, Toluidine and other dye intermediates</b>	Cyanosis occurs when methemoglobin levels exceed 15%. Give 1-2 mg/kg of 1% Methylene blue I/V slowly over a period of five minutes. Repeat doses of methylene blue may be needed . Do not exceedtotal dose of 7 mg/kg.	Inj. Methylene blue Vatva Ind. Association dispensory.Ph.583 3496 Dr.S.I.Trivedi,5891 048 Deepak medical stores, stadium char rasta. Aquafine injecta pvtltd. C/29/30, MIDC, Jijuri, Ta- Purandhar, Dist- Pune.
7.	<b>Antimony</b>	A. Treatment is primarily symptomatic. There are no specific antidotes, but DMSA, D-penicillamine, BAL, and DMPS (Unithiol) have been used as chelating agents.  Metallic antimony is not highly toxic and usually only causes gastrointestinal effects. Various salt forms may cause significantly more irritation, and stibine is a highly toxic, hemolytic gas.	CMOS  Civil hospital  Gandhinagar
8.	<b>Arsenic</b>	GASTRIC DECONTAMINATION – Aggressive decontamination with gastric lavage is recommended. If X-ray demonstrates arsenic in the lower GI tract, whole bowel irrigation should be considered.  <b>CHELATION -</b>  1. BAL - Symptomatic patients unable to tolerate oral medication should be treated with BAL 3 to 5 mg/kg/dose IM every 4 to 12 hours. The dose and frequency depend on the degree of toxicity seen. Higher doses of BAL invariably cause adverse effects.  2. DMSA - Dimercaptosuccinic acid (DMSA) should be used as soon as the patient is able to tolerate oral medication. DOSE: 10 mg/kg every 8 hours for 5 days, then decrease dosing to every 12 hours for 14 days. It may be more effective and causes fewer side effects than BAL.  3. PENICILLAMINE - An alternative in patients able to tolerate oral medications. DOSE: D-penicillamine 100 mg/kg/day up to 2 g daily in four divided doses.  4. ENDPOINT - In severely ill patients, combined therapy with both BAL and an oral agent should be considered. Chelation therapy should be stopped when the urinary arsenic level falls below 50 mcg per 24 hours. If renal failure exists, dose of BAL and penicillamine should be decreased after loading dose.	CMOS  Civil hospital  Gandhinagar

9.	<b>Arsine</b>	To prevent renal damagedue to hemolysis, give I/V fluids and diuretics to maintain urine flow.	All Govt. Hospitals All medicalstores
10.	<b>Barium</b>	Charcoaladministration is not advised  Magnesium sulphate when given orally results in the formation of non-absorbable barium sulphate within the gastrointestinal tract. Dose: 30 g for adults. Sodium sulphate is an alternative. ADULT: 30 g in 250 ml water orally.  E. Monitor serum potassium. Treat hypokalemia and associated cardiac dysrhythmias by infusing with potassium intravenously, slowly.	All Govt. Hospitals All medicalstores
11.	<b>Benzene, Toluene, Xylene</b>	<b>Dermal exposure:</b> Wash with plenty of water and soap for 15-20 minutes <b>Inhalation:</b> Move the person to fresh air. Give oxygen In case of convulsions, give Diazepam 10 mg I/V slowly.	Oxygene British oxygene ltd., Rakhial Ahmedabad. Diazepam All Govt. hospitals All medicalstores
12.	<b>Beryllium</b>	In acute exposures, symptomatic treatment In chronicpulmonary disease, corticosteroids may be given.	All Govt. Hospitals All medicalstores
13.	<b>Bleachingsolut ion</b>	<b>Ingestion:</b> Give the person half to one glass of milk/water. Do not induce vomiting. <b>Note: Do not use acidto neutralize alkali</b>	
14.	<b>Borates</b>	Supportive treatment Ingestion: Gastric lavage and ACTIVATED CHARCOAL: as slurry (240 mL water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents.	All Govt. Hospitals
15.	<b>Bromine</b>	<b>Ingestion:</b> Give the person half to oneglass of milk/water. Do not induce vomiting. <b>Inhalation:</b> Move the person to fresh air. Give oxygen. <b>Caution:</b> The rescuer should use protective clothing.	Oxygen British oxygene ltd., Rakhial, Ahmedabad
16.	<b>Cadmium</b>	<b>CHELATION</b> - chelation therapy may be of benefit immediately following acute exposure. Administer CaNa2 EDTA 75 mg/kg/day deep IM or slow IV infusion given in 3 to 6 divided doses for up to 5 days. May be repeated for a second course after a minimum of two days drug holiday; each course should not exceed a total of 500 mg/kg body weight. CAUTION: BAL must not be used with cadmium since the complex is nephrotoxic. <b>INHALATION:</b> Move patient to fresh air. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Administer 100 percent humidified supplemental oxygen with assisted ventilation as required.	Troika laboratory Throl, Ta.Kadi, Dist.Mehsana

17.	<b>Carbamate pesticides</b>	<p>ADMINISTER ATROPINE SULFATE - in repeated doses intravenously until atropinisation is achieved (indicated by drying of pulmonary secretions).</p> <p>ADULT DOSE - 2 to 4 milligrams every 10 to 15 minutes.</p> <p>Administer pralidoxime if severe toxicity develops.</p>	<p>All Govt. Hospitals All medical stores</p>
18.	<b>Carbon monoxide</b>	<p><b>OXYGEN:</b> Administer 100% O<sub>2</sub> by tight-fitting face mask until asymptomatic.</p> <p>Hyperbaric oxygen is recommended in patients with neurologic abnormalities, myocardial ischemia, acidosis, hypotension, pregnancy.</p>	<p>Oxygen British oxygene ltd., Rakhial Ahmedabad</p>
19.	<b>Chlorates</b>	<p><b>Ingestion:</b> GASTRIC LAVAGE: Consider soon after ingestion (generally within 1 hour).</p> <p>ACTIVATED CHARCOAL: Administer charcoal as slurry (240 mL water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents,</p> <p>C. SODIUM THIOSULFATE - Consider administering sodium thiosulfate to symptomatic patients to inactivate the chlorate ion. Administer 2 to 5 g orally or IV in 200 mL of 5% sodium bicarbonate.</p> <p>D. ALKALINE DIURESIS: Assure adequate hydration and renal function. Administer 88 to 132 mEq/L sodium bicarbonate and 20 to 40 mEqKCl (as needed) in dextrose 5% in water or other fluid to produce adequate urine flow and urine pH of at least 7.5. Additional doses may be needed to maintain an alkaline urine.</p> <p>E. METHEMOGLOBINEMIA: Administer 1 to 2 mg/kg of 1% methylene blue slowly IV if the patient is symptomatic. Additional doses may be required.</p>	<p>All Govt. hospitals</p> <p>Troika laboratory Throl, Ta.Kadi, Dist. mehsana</p>
20.	<b>Chlorine</b>	<p><b>INHALATION</b> Move patient to fresh air. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Administer 100 percent humidified supplemental oxygen with assisted ventilation as required.</p> <p><b>Caution:</b> Rescuers should wear self-contained breathing apparatus and have protective clothing, if needed.</p> <p><b>EYE EXPOSURE</b> Exposed eyes should be irrigated with copious amounts of lukewarm water for at least 15 minutes.</p> <p><b>DERMAL EXPOSURE</b> Wash exposed area extremely thoroughly with soap and water.</p>	<p>Oxygene British oxygene ltd., Rakhial Ahmedabad</p>

21.	<b>Chromium</b>	<p>Intravenous administration of ascorbic acid can help reduce hexavalent chromium to trivalent chromium and thus lower the tissue penetration seen with hexavalent chromium. Administer ascorbic acid (1 g per 0.135 g of elemental chromium).</p> <p><b>Ingestion</b> Immediately dilute with 4 to 8 ounces (120 to 240 mL) of milk or water. Do not induce vomiting.</p> <p><b>Dermal Exposure</b> Wash the exposed area with water or 10 to 20 percent ascorbic acid solution for 15 minutes.</p> <p><b>INHALATION</b> Move patient to fresh air. Administer 100 percent humidified supplemental oxygen with assisted ventilation as required.</p>	<p>All Govt. Hospitals All medical stores</p>
22.	<b>Copper</b>	<p><b>DILUTION:</b> Following ingestion and/or prior to gastric evacuation, immediately dilute with 4 to 8 ounces (120 to 240 mL) of milk or water</p> <p>B. Emesis is rapid and spontaneous in most patients following ingestion of copper salts.</p> <p><b>Chelation:</b> There is little clinical experience in the use of chelators in acute copper intoxication. BAL, penicillamine, DMPS and EDTA have been used. D-penicillamine is considered the drug of choice for Wilson's disease, a condition of chronic copper overload.</p> <p><b>D-PENICILLAMINE:</b> 1000 to 1500 mg/day divided every 6 to 12 hours. Avoid if penicillin allergic. Monitor for proteinuria, hematuria, rash, leukopenia, thrombocytopenia.</p> <p>Administer BAL (Dimercaprol) 3 to 5 mg/kg/dose IM every 4 hours for 2 days; then every 4 to 6 hours for an additional 2 days; then every 4 to 12 hours for up to 7 additional days.</p>	<p>CMSO Civil hospitals Gandhinagar</p>
23.	<b>Cyanides</b> <b>includes Sodium/Potassium cyanide, Hydrogen cyanide, Cyanogen and its halides (chloride/bromide/ iodide)</b>	<p><b>Caution:</b> Rescuers must not enter areas with potential high airborne concentrations of this agent without SELF-CONTAINED BREATHING APPARATUS (SCBA) to avoid becoming secondary victims. ADMINISTER 100% OXYGEN ESTABLISH SECURE LARGE BORE IV .</p> <p>PREPARE THE CYANIDE ANTIDOTE KIT FOR USE IN SYMPTOMATIC PATIENTS.</p> <p>1. AMYL NITRITE AMPULE – Give one ampule by inhalation for 30 seconds every minute until sodium nitrite is administered. Use a new ampule every 3 minutes.</p> <p>2. SODIUM NITRITE – Administer IV (ADULT: 10 mL of a 3% solution over 5 minutes.</p> <p>a. Repeat one-half of initial sodium nitrite dose 30 minutes later if there is inadequate clinical response. Monitor blood pressure carefully. Reduce nitrite administration rate if hypotension occurs.</p> <p>3. SODIUM THIOSULFATE - Administer IV immediately following sodium nitrite (ADULT: 50 mL of 25% solution). Repeat one-half of initial sodium</p>	<p>Troika laboratory Throl, Ta. Kadi Dist.Mehsana</p>

		<p>thiosulfate dose 30 minutes later if there is inadequate clinical response.</p> <p>D. SODIUM BICARBONATE - Administer 1 mEq/kg IV to severely acidotic patients.</p> <p>SEIZURES: Administer IV DIAZEPAM (ADULT: 5 to 10 mg, repeat every 10 to 15 minutes as needed) or LORAZEPAM (ADULT: 4 to 8 mg).</p> <p>Consider phenobarbital and/or phenytoin if seizures are uncontrollable or recur after diazepam 30 mg.</p>	
24.	<b>Dimethyl sulphate</b>	<p><b>Ingestion</b> Immediately dilute with 4 to 8 ounces (120 to 240 mL) of milk or water . Do not induce vomiting.</p> <p><b>Inhalation</b> Move patient to fresh air. Administer 100 percent humidified supplemental oxygen with assisted ventilation as required.</p> <p><b>EYE EXPOSURE</b> Exposed eyes should be irrigated with copious amounts of lukewarm water for at least 15 minutes.</p> <p><b>DERMAL EXPOSURE</b> Wash exposed area extremely thoroughly with soap and water.</p>	<p>Oxygen</p> <p>British oxygene ltd</p> <p>Rakhialahmedabad</p>
25.	<b>Dichloromethane</b> ( <b>Methylene chloride</b> )	<p><b>Give</b> 100% oxygen as it is converted to carbon monoxide in the body</p> <p><b>Ingestion</b> Dilute with 4 to 8 ounces (120 to 240 mL) of milk or water . Do not induce vomiting.</p> <p><b>Inhalation</b> Move patient to fresh air. Administer 100 percent oxygen .</p> <p><b>Eye Exposure</b> Exposed eyes should be irrigated with copious amounts of lukewarm water for at least 15 minutes.</p> <p><b>Dermal Exposure</b> Wash exposed area extremely thoroughly with soap and water.</p>	<p>Oxygen</p> <p>British oxygene ltd</p> <p>Rakhial</p> <p>Ahmedabad</p>
26.	<b>Dinitrophenol</b>	<p>Prevent absorption with emesis, gastric lavage, and/or activated charcoal.</p> <p>Control the fever WITHOUT using salicylates and correct any fluid and electrolyte derangements.</p> <p>Control seizures and manage cerebral or pulmonary edema.</p>	All Govt. hospitals
27.	<b>Ethanol</b>	<p><b>Ingestion</b></p> <p>GASTRIC LAVAGE: Consider after ingestion of a potentially life-threatening amount of poison if it can be performed soon after ingestion (generally within 1 hour).</p> <p>ACTIVATED CHARCOAL - Does NOT appreciably reduce ethanol absorption.</p>	<p>All Govt. hospitals</p> <p>All medical stores</p>

		<p>THIAMINE - Administer 100 mg of thiamine intramuscularly or intravenously.</p> <p>HYPOGLYCEMIA - Administer IV glucose if blood sugar is below 60 mg/dL. Administration of IV glucose should be preceded by 100 mg of thiamine IM or IV.</p> <p>HYPOTHERMIA - Rewarm slowly using blankets, warm IV fluids, and/or warmed mist inhalation. Monitor for and treat rewarming arrhythmias.</p> <p>HEMODIALYSIS - Effectively removes ethanol; should be considered in those patients who deteriorate despite conventional therapy.</p> <p>ETHANOL WITHDRAWAL - Managed with oral or parenteral administration of benzodiazepines.</p>	
28.	<b>Ethylene glycol and Diethylene glycol</b>	<p><b>Decontamination:</b> gastric lavage, activated charcoal. Ipecac contraindicated.</p> <p><b>SEIZURES:</b> benzodiazepines, barbiturates.</p> <p><b>ACIDOSIS:</b> NaHCO<sub>3</sub> 1-2 meq/kg every 1-2 hrs if pH &lt; 7.1.</p> <p><b>ETHANOL:</b> Loading dose 10 ml/kg 10% ETOH IV. Maintenance dose 1-2 ml/kg/hr 10%</p> <p><b>4-Methyl Pyrazole (Fomepizole)</b> - A loading dose of 15 milligrams/kilogram is intravenously infused over 30 minutes followed by doses of 10 milligrams/kilogram every 12 hours for 4 doses, then 15 milligrams/kilogram every 12 hours until ethylene glycol levels are below 20 milligrams/deciliters.</p> <p><b>THIAMINE/PYRIDOXINE</b> - ADMINISTER THIAMINE AND PYRIDOXINE - 100 mg IV daily.</p>	All Govt. hospitals All medical stores
29.	<b>Fluorine</b>	<p><b>Ingestion:</b> Immediately dilute with 4 to 8 ounces (120 to 240 mL) of milk or water . Gastric lavage</p> <p><b>Eye Exposure:</b> Exposed eyes should be irrigated with copious amounts of lukewarm water for at least 15 minutes.</p> <p><b>Dermal Exposure</b> Wash exposed area extremely thoroughly with soap and water.</p> <p><b>INHALATION</b> Move patient to fresh air. Administer 100 percent humidified supplemental oxygen with assisted ventilation as required.</p>	Oxygen British oxygene ltd Rakhial Ahmedabad
30.	<b>Formaldehyde (Formalin)</b>	<p><b>INHALATION EXPOSURE</b></p> <p>DECONTAMINATION: Move patient to fresh air. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Administer 100 percent humidified supplemental oxygen with assisted ventilation as required.</p>	Troika laboratory Throl, Ta. Kadi Dist. Mehsana

		<p><b>EYE EXPOSURE</b></p> <p>IRRIGATION: In a medical facility, irrigate with sterile saline for at least an hour or until the superior and inferior cul-de-sacs have been examined for particulate matter and returned to neutrality (pH paper touched to lower cul-de-sac).</p> <p><b>DERMAL EXPOSURE DECONTAMINATION:</b> Wash exposed area extremely thoroughly with soap and water.</p> <p><b>Ingestion:</b> Following ingestion and/or prior to gastric evacuation, immediately dilute with 4 to 8 ounces (120 to 240 mL) of milk or water Prevent absorption with gastric lavage, and/or activated charcoal.</p>	
31.	<b>Herbicide – 2,4-D</b>	<p>INGESTION - No specific antidote. Gastric lavage and activated charcoal/cathartic are probably more useful decontamination methods. Monitor respiratory status, electrolytes, renal and liver function tests, CBC, platelet count, and cardiac status.</p> <p>2. Observe for adequate hydration, myoglobinuria, or metabolic acidosis. Alkaline diuresis may be necessary.</p>	<p>CMSO Civil Hospital Gandhinagar.</p>
32.	<b>Herbicide – Paraquat</b>	<p>All cases of paraquat ingestion must be treated as potentially fatal poisonings.</p> <p>Ingestion of, or dermal exposure to, even small amounts of paraquat can result in severe toxicity and death within 24 hours.</p> <p>Survivors of severe paraquat poisoning often develop progressive pulmonary fibrosis within 5 to 10 days or longer after exposure. Continued survival is dependent on the extent of lung involvement.</p> <p><b>Treatment is primarily supportive and symptomatic</b></p>	<p>CMSO Civil hospital Gandhinagar</p>
33.	<b>Hydrofluoric acid (Hydrogen fluoride)</b>	<p><b>Ingestion:</b> Attempt immediate administration of a fluoride binding substance: milk (one-half to one glassful), chewable calcium carbonate tablets, milk of magnesia or a liquid antacid. Avoid large amounts of liquid, as this may induce vomiting.</p> <p>DO NOT INDUCE VOMITING.</p> <p>HYPOCALCEMIA may occur. Correct with IV CALCIUM CHLORIDE (10 percent solution). ADULT: 2 to 4 mg/kg (0.02 to 0.04 mL/kg) infused slowly and repeated as necessary.</p> <p>HYPOMAGNESEMIA may occur. Correct with IV MAGNESIUM SULFATE: ADULT 2 grams is diluted in 50 to 100 mL of 5% Dextrose and administered over 5 minutes.</p> <p><b>DERMAL EXPOSURE</b></p> <p>DECONTAMINATION - Remove all exposed clothing and jewelry taking necessary precautions to prevent secondary exposure to health care providers. Irrigate</p>	<p>All govt. hospital All medical stores</p>

		<p>exposed areas promptly with copious amounts of water for at least 30 minutes.</p> <p><b>CALCIUM GLUCONATE OR CARBONATE GEL</b> - Use of 2.5 percent to 33 percent calcium gluconate or carbonate gel or slurry, either placed into a surgical glove into which the affected hand is then placed, or applied onto the exposed dermis, has been recommended. This therapy is more easily administered and less painful than infiltration.</p> <p><b>CALCIUM INFUSION</b> - Regional intravenous infusion of calcium gluconate is a therapeutic option in HF burns of the forearm, hand, or digits as adjunct to topical therapy. Intra-arterial calcium infusion for digital HF burn is also a therapeutic option and may be considered if regional intravenous calcium gluconate is ineffective.</p> <p><b>CALCIUM GLUCONATE INFILTRATION</b> - Continued tissue destruction and pain may be minimized by SC administration of calcium gluconate Infiltrate each square cm of affected dermis and SC tissue with about 0.5 mL of 10 percent</p> <p><b>DO NOT USE CALCIUM CHLORIDE</b> - Calcium chloride is irritating to the tissues and may cause injury.</p>	
34.	<b>Hydrogen sulfide</b>	<p><b>Inhalation:</b> Move the victim to an area of fresh air and immediately provide respiratory support using 100 percent humidified oxygen.</p> <p><b>NITRITE THERAPY</b> - Amyl nitrite by inhalation and IV sodium nitrite (found in cyanide antidote kit) may be beneficial by forming sulfmethemoglobin, thus removing sulfide from combination in tissue. <b>Do NOT use sodium thiosulfate.</b></p> <p><b>Hyperbaricoxygen</b> may be given to those who continue to be symptomatic after standard therapy.</p> <p>Control seizures, pulmonary edema, arrhythmias and hypotension.</p> <p>Exposed mucocutaneous surfaces should be thoroughly washed with copious amounts of water and/or soap.</p> <p>Rescuers should wear a self-contained breathing apparatus, special chemical protective clothing, and a safety line during rescue operations. Many would-be rescuers have become victims when entering contaminated enclosed areas without proper protective equipment.</p> <p>Observe for delayed onset (up to 72 hours) acute respiratory effects.</p>	<p>Troika laboratory Throl, Ta. Kadi Dist.Mehsana.</p>
35.	<b>Iodine</b>	<p><b>Ingestion:ORAL/PARENTERAL EXPOSURE</b> <b>GASTRIC LAVAGE:</b> Consider after ingestion of a potentially life-threatening amount of poison if it can be performed soon after ingestion (generally within 1 hour). Administer charcoal as slurry ,Usual dose: 25 to 100 g in adults/adolescents, C. <b>0.4.3 INHALATION</b></p>	<p>Oxygen British oxygene ltd. Rakhial Ahmedabad</p>

		<p><b>EXPOSURE</b> Move patient to fresh air. Monitor for respiratory distress. If cough or difficulty breathing develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.</p> <p><b>EYE EXPOSURE</b></p> <p>DECONTAMINATION: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes.</p> <p><b>DERMAL EXPOSURE</b></p> <p>A. Wash the exposed area twice with soap and water. Apply starch to ensure all iodine has been removed (ie, no blue color).</p>	All govt. hospitals
36.	<b>Iron salts</b>	<p><b>Ingestion:</b></p> <p>1. Removal of iron from the gastrointestinal tract. Decontamination is recommended with syrup of ipecac (at home, if recent ingestion) or gastric lavage (in health care facility) if greater than 20 mg/kg or unknown amount of ingestion OR symptomatic.</p> <p>2. Maintain electrolytes, treating shock, hypotension, and hyperglycemia.</p> <p>3. Removal of iron from the patient's system.</p> <p>Deferoxamine chelation may be indicated in symptomatic patients or those with a peak serum iron greater than 350 micrograms/deciliter.</p> <p>Deferoxamine - Administer by continuous intravenous infusion at a rate of up to 15 milligram/kilogram/hour. Patients with moderate toxicity are generally treated for 8 to 12 hours, those with severe toxicity may require deferoxamine for 24 hours or longer.</p>	All govt hospitals All medical stores
37.	<b>Lead</b>	<p>ACUTE EXPOSURE -</p> <p>ACTIVATED CHARCOAL: Administer charcoal as slurry (240 mL water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents,</p> <p>CHELATION THERAPY - Should be instituted in all patients with blood lead level equal to or greater than 45 mcg/dL even if asymptomatic, Symptoms and signs, along with the EP and blood lead level, determine the route, dose, and agent to be used for chelation.</p> <p>BAL (dimercaprol) - 3 to 5 mg/kg/dose deep IM every 4 hours for 2 days; then every 4 to 6 hours for 2 more days; then every 4 to 12 hours up to an additional 7 days.</p> <p>CALCIUM EDTA - 50 to 75 mg/kg/day deep IM in 3 to 6 divided doses for up to 5 days. EDTA should only be administered after BAL in patients with encephalopathy or children with levels &gt;69 mcg/dL.</p> <p>D-PENICILLAMINE - 250 mg 4 times a day PO for up to 5 days. Do not exceed 40 mg/kg/day. OSHA</p>	All govt. hospitals All medical stores CMSO Civil hospital Gandhinagar

		<p>prohibits prophylactic chelation therapy in workers occupationally exposed to lead.</p> <p>DMSA (Succimer)- 30 milligrams/kilogram/day in 3 divided doses for 5 days followed by 20 milligrams/kilogram/day in 2 divided doses for 14 days.</p>	
38.	<b>Magnesium salts</b>	<p>DECONTAMINATION: Gastric lavage; activated charcoal does NOT effectively adsorb magnesium salts.</p> <p>Monitor ECG/vital signs, magnesium and calcium levels and electrolytes frequently.</p> <p>CALCIUM: For respiratory depression, give IV calcium gluconate 10% (DOSE: 0.2 to 0.5 mL/kg/dose up to 10 mL/dose over 5 to 10 minutes). Repeat as indicated.</p> <p>HYPOTENSION: IV NS 10-20 mL/kg, dopamine, norepinephrine.</p> <p>HEMODIALYSIS: Most effective treatment for severe poisoning; may reverse severe effects within 30 minutes.</p>	<p>All govt. hospitals</p> <p>All medical stores</p>
39.	<b>Manganese</b>	<p>Most exposures to manganese are chronic. Emesis and activated charcoal may not be useful in chronic cases.</p> <p>CHELATION THERAPY with EDTA may enhance the urinary excretion and mobilization of manganese from the blood and tissue but its effectiveness in improving existing neurological findings or preventing neurologic deterioration have not been clearly demonstrated.</p> <p>LEVODOPA THERAPY (up to 3.5 to 12 grams per day in divided doses in an adult) may result in improvement of neurological toxicity. Concomitant administration of carbidopa may result in greater benefit. An animal model suggested that L-dopa may actually enhance dopamine depletion, at least during the early or acute phase.</p> <p>D. INTENTION TREMOR may respond to trihexyphenidyl hydrochloride (Adult: 1 to 5 mg per day in divided doses).</p>	<p>All govt. hospitals</p> <p>All medical stores</p>
40.	<b>Methyl Mercaptan</b>	<p><b>INHALATION EXPOSURE</b> Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.</p> <p><b>METHEMOGLOBINEMIA:</b> Administer 1 to 2 mg/kg of 1% methylene blue slowly IV in symptomatic patients.</p> <p><b>EYE EXPOSURE</b> Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes.</p> <p><b>DERMAL EXPOSURE</b></p> <p>Remove contaminated clothing and wash exposed area thoroughly with soap and water. Treat dermal irritation or burns with standard topical therapy.</p>	<p>Oxygen</p> <p>British oxygene ltd.,</p> <p>Rakhial</p> <p>Ahmedabad</p> <p>Methylene blue</p> <p>Vatva Ind.</p> <p>Association</p> <p>Dr.S.I.Trivedi</p>

		Patients developing dermal hypersensitivity reactions may require treatment with systemic or topical corticosteroids or antihistamines.	
41.	<b>Mercury</b>	<p>Ingestion: ELEMENTAL (METALLIC) MERCURY - is usually not absorbed, and usually does not produce acute toxicity. Decontamination is not necessary in normal adults</p> <p>INHALATION: Move patient to fresh air. Monitor for respiratory distress. If cough or difficulty breathing develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.</p> <p>Chelating agents that have been used to treat mercury poisoning include:</p> <ol style="list-style-type: none"> <li>1. SUCCIMER 10 mg/kg orally every 8 hrs. for 5 days, followed by 10 mg/kg every 12 hours for 14 days.</li> <li>2. DMPS 5 mg/kg IV or IM every 6 to 8 hours for 2 days, then reduce to once or twice daily administration.</li> <li>3. PENICILLAMINE Adults 1000 to 1500 mg per day divided every 8 to 12 hours.</li> </ol> <p>N-acetyl-penicillamine Adults 250 to 500 milligrams every 6 hours.</p> <ol style="list-style-type: none"> <li>5. BAL 3 to 5 mg/kg/dose every 4 hours by deep IM for 2 days; 2.5 to 3 mg/kg/dose IM every 6 hours for 2 days; then 2.5 to 3 mg/kg/dose IM every 12 hours for a week.</li> </ol>	<p>All govt. hospitals</p> <p>All medical stores</p>
42.	<b>Metaldehyde</b>	No specific antidote, give supportive treatment	
43.	<b>Methanol</b>	<p>DECONTAMINATION: gastric lavage, activated charcoal.</p> <p>ACIDOSIS: IV NaHCO<sub>3</sub> 1-2 mEq/kg starting dose if pH &lt; 7.1.</p> <p>ETHANOL THERAPY - LOADING DOSE - 10 mL/kg of 10 percent ethanol in D5W IV over 30 minutes. MAINTENANCE DOSE - 1 to 2 mL/kg/hr of 10 percent ETHANOL in D5W by IV infusion. Maintain blood ethanol levels at 100 to 130 mg/dL. Monitor blood glucose and blood ethanol levels. INDICATIONS: metabolic acidosis or blood methanol level greater than 20 mg/dL.</p> <p>FOMEPIZOLE - FDA approved for methanol poisoning in the USA; LOADING DOSE - 15 mg/kg IV over 30 minutes.</p> <p>HEMODIALYSIS - Maintenance ethanol dose must be increased during dialysis. Fomepizole dosing should be increased to every 4 hr during hemodialysis. INDICATIONS - 1) blood methanol level greater than 50 mg/dL (15 mmol/L); 2) severe acid-base and/or</p>	<p>All govt. hospitals</p> <p>All medical stores</p>

		<p>fluid-electrolyte abnormalities despite conventional therapy; 3) renal failure.</p> <p>LEUCOVORIN/FOLIC ACID - If symptomatic - IV leucovorin 1 mg/kg once (up to 50 mg/dose) followed by IV folic acid 1 mg/kg (up to 50 mg/dose) every 4 hours for 6 doses.</p>	
44.	<b>Naphthalene</b>	<p><b>ORAL/PARENTERAL EXPOSURE</b></p> <p>A. Induced emesis is more useful for mothballs because of size. Mothballs dissolve slowly; gastric decontamination should be considered even in patients presenting late after ingestion.</p> <p>B. URINARY ALKALINIZATION - If hemolysis occurs, urine alkalinization with intravenous sodium bicarbonate infusion (maintaining a urine pH of 7 to 8) may help to avoid renal injury.</p> <p>C. Supportive treatment</p>	<p>All govt. hospitals</p> <p>All medical stores</p>
45.	<b>Nickel</b>	<p>CHELATING AGENTS - Although penicillamine has an effect, diethyldithiocarbamate (DDC) is the preferred chelating agent for nickel.</p> <p>a. Blood levels less than 10 mcg/dL DDC is unnecessary.</p> <p>b. 10 to 50 mcg/dL: DDC should be administered orally (50 mg/kg/day on day 1, then 400 mg every 8 hours until the patient is symptom free and urine nickel is under 10 mcg/dL.</p> <p>c. Greater than 50 mcg/dL: the dose of DDC parenterally is 25 mg/kg. Severe cases may use 100 mg/kg for the first 24 hours.</p>	<p>CMSO</p> <p>Civil hospital</p> <p>Gandhinagar</p>
46.	<b>Nitrogen oxides (Nox)</b>	<p>Treatment of toxic pulmonary edema caused by nitrogen oxide inhalation should be directed towards reversal of ventilatory failure by using oxygen in assisting ventilation.</p> <p>In patients with toxic bronchiolitis, steroids may be beneficial in decreasing the amount of inflammation. Methemoglobinemia and mild acidosis may be present, but specific treatment for these conditions will probably not be necessary.</p>	<p>Oxygen</p> <p>British oxygene ltd.,</p> <p>Rakhial</p> <p>Ahmedabad</p> <p>Methylene blue</p> <p>Vatva Ind.</p> <p>Association</p> <p>Dr.S.I.Trivedi</p>
47.	<b>Organochlorine pesticides</b> ( DDT, BHC, Lindane, Endosulfan)	<p><b>Ingestion:</b> Ipecac-induced emesis is not recommended because of the potential for CNS depression and seizures.</p> <p>GASTRIC LAVAGE: Consider after ingestion of a potentially life-threatening amount soon after ingestion (generally within 1 hour). Protect airway by placement in Trendelenburg and left lateral decubitus position or by endotracheal intubation. Control any seizures first.</p>	<p>All Govt. Hospitals</p> <p>All medical Stores</p>

		<p><b>ACTIVATED CHARCOAL:</b> Administer charcoal as slurry (240 mL water/30 g charcoal). Usual dose: 25 to 100 g in adults/adolescents,</p> <p><b>SEIZURES:</b> Administer a benzodiazepine IV; DIAZEPAM (ADULT: 5 to 10 mg, repeat every 10 to 15 min as needed) or LORAZEPAM (ADULT: 4 to 8 mg). Consider phenobarbital if seizures recur after diazepam 30 mg (adults)</p> <p><b>REFRACTORY SEIZURES:</b> Consider continuous infusion of midazolam, propofol, and/or pentobarbital.</p> <p>Do not give oils by mouth.</p> <p>Do not administer adrenergic amines, which may further increase myocardial irritability and produce refractory ventricular arrhythmias.</p> <p><b>CHOLESTYRAMINE</b> - Oral administration may enhance the excretion of kepone and chlordane which are trapped in the enterohepatic circulation.</p> <p><b>EYE EXPOSURE</b></p> <p><b>DECONTAMINATION:</b> Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes.</p> <p><b>DERMAL EXPOSURE</b></p> <p>If clothing is contaminated remove, and wash skin and hair three times; do an initial soap washing followed by an alcohol washing followed by a soap washing.</p>	
48.	<p><b>Organophosphate pesticides</b></p> <p><b>(Chlorpyrifos, Dimethoate, Monocrotophos, Malathion, Fenitrothion, Fenthion, Quinalphos etc.)</b></p>	<p>Ingestion: <b>GASTRIC LAVAGE:</b> Consider after ingestion of a potentially life-threatening amount of poison if it can be performed soon after ingestion (generally within 1 hour). Protect airway by placement in Trendelenburg and left lateral decubitus position or by endotracheal intubation. Control any seizures first.</p> <p><b>ATROPINE THERAPY</b> - If symptomatic, administer IV atropine until atropinization is achieved. Adult - 2 to 5 mg every 10 to 15 minutes; Child - 0.05 mg/kg every 10 to 15 minutes. Atropinization may be required for hours to days depending on severity.</p> <p><b>PRALIDOXIME.</b> Treat moderate to severe poisoning (fasciculations, muscle weakness, respiratory depression, coma, seizures) with 2-PAM in addition to atropine; most effective if given within 48 hours, but has had efficacy up to 6 days. May require administration for several days. <b>INITIAL DOSE:</b> ADULT: 1 to 2 g in 100 to 150 ml 0.9% saline IV over 30 min. Repeat these doses in 1 hour and then every 6 to 12 hours if muscle weakness or fasciculations persist, or begin continuous infusion.</p>	<p>All Govt. Hospitals All medical stores</p>
		<p><b>CONTINUOUS INFUSION:</b> Administer as a 2.5% solution in 0.9% saline. ADULT: 500 mg/hour.</p> <p><b>INHALATION exposure:</b> Move patient to fresh air. Monitor for respiratory distress. If cough or difficulty</p>	

		<p>breathing develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols. Treat with atropine and PAM as in case of ingestion</p> <p><b>DERMAL EXPOSURE</b></p> <p>Systemic effects can occur from dermal exposure to organophosphates. Remove contaminated clothing and jewelry; wash skin, hair and nails vigorously with repeated soap washings. Leather absorbs pesticides; all contaminated leather should be discarded. Rescue personnel and bystanders should avoid direct contact with contaminated skin, clothing, or other objects. Treat with atropine and PAM as in case of ingestion</p>	
49.	<b>Oxalic acid</b>	<p><b>INGESTION EXPOSURE -</b></p> <p>Do NOT induce emesis due to the potential for gastrointestinal tract irritation or burns, seizures, and coma. Immediately dilute with milk or water. Administer calcium gluconate or calcium lactate 150 mg/kg orally; may repeat if necessary.</p> <p>Administer activated charcoal following ingestion of dilute solutions..</p> <p><b>EYES -</b> Immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids</p> <p><b>DERMAL -</b> Flush the contaminated skin with water promptly and remove the clothing.</p> <p><b>INHALATION -</b> Move the exposed person to fresh air at once.</p>	<p>All govt. hospitals</p> <p>All Medical Stores</p>
50.	<b>Phenol and derivatives</b>	<p><b>Ingestion:</b> Consider gastric lavage after ingestion of a potentially life-threatening amount of phenol( more than 1.5 gms) if it can be performed soon after ingestion (generally within 1 hour).</p> <p><b>Eye exposure</b></p> <p><b>DECONTAMINATION: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes.</b></p> <p><b>DERMAL EXPOSURE</b></p> <p>Remove phenol with undiluted polyethylene glycol 300 to 400 ml or isopropyl alcohol prior to washing, if readily available. Wash exposed areas twice with large quantities of water.</p> <p><b>INHALATION:</b> Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.</p>	<p>All govt. hospitals</p> <p>All medical stores</p>
51.	<b>Phosgene</b>	<p><b>INHALATION EXPOSURE</b></p> <p>Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as</p>	<p>Oxygen</p>

		<p>required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.</p> <p>Carefully observe patients with inhalation exposure for the development of any systemic signs or symptoms and administer symptomatic treatment as necessary.</p> <p>Monitor for 12 to 24 hrs after exposure even if the person is asymptomatic.</p> <p><b>PULMONARY EDEMA (NONCARDIOGENIC):</b> Maintain ventilation and oxygenation and evaluate with frequent arterial blood gas or pulse oximetry monitoring. Early use of PEEP and mechanical ventilation may be needed.</p> <p>There is no specific antidotal therapy for phosgene-induced pulmonary edema.</p>	<p>BOL.</p> <p>All govt. hospitals</p> <p>All medical stores</p>
52.	<b>Phosphorus</b>	<p><b>DERMAL EXPOSURE</b></p> <ol style="list-style-type: none"> <li>1. Prompt removal of all clothing, including jewelry, and copious irrigation with water should occur as soon as possible.</li> <li>2. Immerse exposed areas in water or cover with wet dressings at all times.</li> <li>3. Wash several times with a solution of 5% sodium bicarbonate AND 3% copper sulfate AND 1% hydroxyethyl-cellulose AND 1% sodium lauryl sulfate; rinse thoroughly with saline between washings .If this solution is not readily available, continuous tepid water irrigation can prevent further oxidation and allow removal of phosphorous particles from the skin without ignition</li> <li>4. Avoid application of any lipid or oil based ointments as these may increase the absorption of phosphorous through the skin.</li> <li>5. Visualization of phosphorus particles may be enhanced under an ultraviolet light source (black light, Wood's lamp). Phosphorus particles should fluoresce under UV light. With the exposed areas immersed in water, loose or imbedded phosphorus particles that are visualized under UV light can be mechanically but delicately removed safely under water.</li> <li>6. Monitor the patient for the development of systemic signs or symptoms of phosphorus poisoning.</li> </ol>	<p>All govt. hospitals</p> <p>All medical stores</p>
53.	<b>Phosphides (Aluminium phosphide ,Zinc phosphide) and phosphine</b>	<p><b>Oral/parenteral exposure:</b> Zinc phosphide and aluminum phosphide will release phosphine gas in the stomach.</p> <p>Gastric lavage with 1:10000 potassium permanganate followed by activated charcoal ( 50- 100 gm in water)</p> <p>I/V fluids with dopamine 8-10 µg/kg/minute for management of shock</p> <p>Treat metabolic acidosis with Sodium bicarbonate I/V</p> <p>Treat cardiac arrhythmias, Magnesium sulphate 3 gm I/V in first 24 hours followed by 6 gm in nexr 24 hours for 3-5 days</p>	<p>All govt. hospitals</p> <p>All medical stores</p>

		No specific antidote	
54.	<b>Potassium permanganate</b>	<p>Ingestion: Ipecac/neutralization contraindicated. Dilute with 4 oz water. Activated charcoal/gastric lavage controversial.</p> <p>EYES - Copious irrigation to neutral pH.</p> <p>HYPOTENSION: IV NS 10-20 mL/kg, dopamine, norepineprine.</p> <p>ENDOSCOPY: Within 24 hours, consider corticosteroids for 2nd degree burns.</p> <p>MONITORING PARAMETERS: Electrolytes, renal &amp; hepatic function, amylase, Prothrombin time, MetHb levels in severe cases.</p>	<p>All govt. hospitals</p> <p>All medical stores</p> <p>CMSO Gandhinagar</p>
55.	<b>Silver nitrate and other silver salts</b>	<p><b>ORAL/PARENTERAL EXPOSURE</b></p> <p>DILUTION: Following ingestion and/or prior to gastric evacuation, immediately dilute with 4 to 8 ounces (120 to 240 mL) of milk or water.</p> <p>METHEMOGLOBINEMIA: Administer 1 to 2 mg/kg of 1% methylene blue slowly IV in symptomatic patients. Additional doses may be required.</p> <p><b>EYE EXPOSURE</b> : Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes.</p> <p><b>DERMAL EXPOSURE</b> Remove contaminated clothing and wash exposed area thoroughly with soap and water.</p>	<p>Troika Lab.</p> <p>Throl, Ta. kadi</p> <p>Dist. Mehsana</p> <p>V.I.A.</p> <p>Dr. S.I. Trivedi</p> <p>Vatva</p>
56.	<b>Sulfur dioxide</b>	<p><b>Inhalation:</b> Move victims from the toxic environment and administer 100 percent humidified supplemental oxygen with assisted ventilation as required. Endotracheal intubation, cricothyroidotomy, or tracheostomy may be needed if upper airway obstruction is present.</p> <p>Inhaled sympathomimetic bronchodilators can be used to treat bronchospasm. Steroids are controversial. Antibiotics may be useful for pulmonary infectious complications. Exposed eyes should be copiously irrigated. Rewarming and a variety of topical treatments are useful for frostbite injury.</p>	<p>Oxygen</p> <p>BOL Ahmedabad</p> <p>All govt. hospital</p> <p>All medical stores</p>
57.	<b>Vinyl chloride</b>	<p>ACUTE - Inhalation exposures to high concentrations may cause CNS and respiratory depression. Patients significantly exposed need appropriate supportive care.</p> <p><b>EYE EXPOSURE</b></p> <p>Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes.</p> <p><b>DERMAL EXPOSURE:</b> Remove contaminated clothing and wash exposed area thoroughly with soap and water.</p>	<p>Oxygen</p> <p>BOL Ahmedabad</p> <p>All govt. hospitals</p> <p>All medical stores</p>

		<p>CHRONIC - Workers exposed may require monitoring for liver cancer, scleroderma, pneumonitis, clotting abnormalities, and acro-osteolysis.</p> <p>There are no specific antidotes. Treatment is directed at minimizing exposure and monitoring for the above symptoms.</p>	
58.	<b>Zinc fumes and metal fume fever</b>	<p><b>Oral/parenteral exposure</b> Some zinc salts are highly corrosive and induced emesis or gastric lavage should be avoided. With corrosive zinc salts, dilute rapidly with water or milk. Activated charcoal (Usual dose: 25 to 100 g), may be beneficial in patients exposed to salts of zinc that are NOT highly corrosive or following substantial ingestions of zinc tablet or capsule preparations. However, most lighter metals (including zinc) are not significantly adsorbed to activated charcoal.</p> <p><b>SUPPORTIVE CARE</b> - Maintain hydration and observe for metabolic acidosis, hypocalcemic tetany, anuria, liver damage, gastric perforation, and pyloric stenosis.</p> <p><b>CHELATION</b> - Calcium disodium edetate and BAL have been used following zinc overdose with mixed results.</p>	<p>CMSO Gandhinagar</p> <p>All govt. hospitals All medical stores</p>
		<p><b>INHALATION EXPOSURE</b> Aspirated zinc stearate may cause severe respiratory irritation.</p> <p><b>PULMONARY EDEMA (NONCARDIOGENIC):</b> Maintain ventilation and oxygenation and evaluate with frequent arterial blood gas or pulse oximetry monitoring. Early use of PEEP and mechanical ventilation may be needed.</p> <p><b>EYE EXPOSURE</b></p> <p>Zinc salts will precipitate protein in the eye and cause corneal and lens changes.</p> <p>Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.</p> <p>Rinsing with a 0.05 M neutral sodium edetate solution may help prevent or reverse a portion of the protein precipitation.</p> <p><b>DERMAL EXPOSURE</b> Irritation caused by zinc salts is extremely variable. Zinc dichromate may cause papulovesicular lesions with exfoliation. Remove contaminated clothing and wash exposed area thoroughly with soap and water. A physician may need to examine the area if irritation or pain persists.</p>	

59.	<b>Tobacco &amp;Nucotine</b>	Atropine Oxygen	Oxyen BOL Ahmedabad All govt. hospitals All medical stores
60.	<b>Anti Coagulants, Aspirin</b>	Vitamin-K	All govt. hospitals All medical stores
61.	<b>Andrime</b>	Paraldehyde	CMSO Gandhinagar
62.	<b>Calotropiz, Cocaine</b>	Potassium permanganate	All govt. hospitals All medical stores
63.	<b>Carbon Dioxide</b>	Oxygen	Oxygen BOL, Ahmedabad
64.	<b>Digitolise</b>	Trisodium EDTA	Troika Lab Throl, Ta. Kadi Dist. Mehsana
65.	<b>Acceticacid</b>	Milk, White, Eggs Calcium Hydroxide, Milk of Magnesia	All Govt. hospitals All medical stores
66.	<b>Aconite</b>	TanicAcide 2% Potassium Iodide	All Govt. hospitals All medical stores
67.	<b>Cuastic Soda</b>	Vinegar	
68.	<b>Heparin</b>	ProtaminSulfate 1% Vitamin – K 1%	All Govt. Hospitals All medical stores
69.	<b>Barbiturates</b>	Bemegrade 0.5%	CMSO Civil hospital Gandhinagar

70.	<b>Boric Acid</b>	Activated Charcoal 5% Dextrose	CMSO Civil hospital Gandhinagar All Govt. hospital All medical stores
71.	<b>Alkali phosphate</b>	Calcium Gluconate	All Govt. Hospitals All medical stores
72.	<b>Carbonyls</b>	Oxygen	BOL Ahmedabad
73.	<b>Cardiac Glycosides</b>	Potassium Chloride 0.5%	
74.	<b>Clorates</b>	Sodium bicarbonates 5%	
75.	<b>Cosmetics</b>	Sodium Thiosulfate 10%	Troika Lab Throl. Ta. Kadi Dist. Mehsana
76.	<b>Dichloromethane</b>	Hydrocortisone	All Govt. Hospitals All medical stores
77.	<b>Argote</b>	Sodiumnicotinate 140mg IV	CMSO Gandhinagar

## Chapter – 7

### Risk Treatment and Prevention / Mitigation

#### 7.1 Introduction

Risk treatment is an emerging concept in chemical emergency management, which seeks a quantitative reduction in the overall risk level. This involves reduction of the following components of risk:

- Frequency of occurrence or likelihood of accident
- Vulnerability and consequences
- Scale of severity

Hence, quantitative reduction in any one or all of the above will reduce the overall risk.

#### 7.2 Identification of Risk Treatment Options

The selection of suitable risk treatment options for a given situation needs to consider the existing laws, socio-economic profile of the region, political considerations and short and long-term strategies.

**Option No. 1 - Risk Termination:** The first option is to substitute the hazardous chemicals being utilised in the process with other chemicals or technologies having lower intrinsic risk. However, in cases where even after substitution the risk level remains unacceptably high, or where substitution is not feasible, termination of risk through closure of the industrial activity would be the only option. Risk termination is generally achieved through substitution. For example - substitution of Chlorine with Ozone used in swimming pools; or replacement of mercury electrodes with membrane electrodes in chlor-alkali plants.

This option is not applicable to all MAH units. Hence in such cases risk reduction is done by option No 2 and 3 as:-

**Option No. 2 - Risk Transfer:** The purpose of the Risk Transfer option is to provide a social safety net through sharing the consequences of the risk. It seeks to ensure that, in the event of a disaster, affected individuals will receive certain level of immediate compensation. For this purpose, Govt. of India has enacted the Public Liability Insurance Act (PLI) 1991, amended in 1992. The District Collector, occupier of the hazardous industry and the insurance company are the three principal players in implementing Public Liability Insurance.

It is recommended that the Director of Industrial Safety and Health should ensure that the MAH units in the state must have taken appropriate insurance policies under the PLI Act - 1991/92.

The salient features of the PLI Act have been extracted in the following paragraphs for facilitating requisite action by the District Administration.

The Public Liability Insurance Act, 1991/92 provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident.

This Act has been enacted with objective of providing immediate relief to victims other than workers of an industry. Act provides for owner, who has control over handling hazardous substances, to pay specified amount to victims as interim relief by taking insurance policy for this purpose. Interim relief is based on no fault liability, which implies that claimant shall not be required to plead and establish that disaster; injury or damage was due to any wrongful act, neglect or default of any person. The act has been amended in 1992 to clarify certain definitions to limit the liability of the insurer. Under this act, a series of rules have been notified for its effective implementation. The list of chemicals for which insurance has to be taken under this Act is given in Schedule 3, Part I and II of MSIHC Rules, 1989 amended subsequently.

## Compensation Under the PLI Act-1991/92

- i. Reimbursement of medical expenses incurred up to a maximum of Rs. 12,500/- in each case.
- ii. For a fatal accident, the relief will be Rs. 25,000/- per person in addition to reimbursement of medical expenses, if any, incurred on the victim up to a maximum of Rs. 12,500/-.
- iii. For a permanent total or permanent partial disability or injury or sickness, the relief will be (a) reimbursement of medical expenses incurred if any, up to a maximum of Rs. 12,500/- in each case and (b) cash relief on the basis of percentage of disablement as certified by an authorized physician. The relief for total permanent disability will be Rs. 25,000/-.
- iv. For loss of wages due to temporary/partial disability which reduces the earning capacity of the victims, there will be a fixed monthly relief not exceeding Rs. 1000/- per month up to a maximum of 3 months provided the victim has been hospitalized for a period of exceeding 3 days and is above 16 years of age.
- v. Up to Rs. 6000/- depending on the actual damage for any damage to private property.

## Polluter Pays Principle

According to this principle, the industry responsible for a particular disaster shall be liable to pay the affected people in the area, the compensation in terms of building the houses, medical rehabilitation etc.

But the provisions of PLI Act are not enough looking to the inflation hence State Govt taking action under prevailing power and provides compensation to the victims.

*Option No. 3 - Risk Retention:* Risk Retention envisages management of possible consequences of an industrial activity by modifying susceptibility and or enhancing liability. Prevention/mitigation and preparedness are tools for reducing or managing consequences. These aspects as applicable to State of Gujarat have been described in ensuing paragraphs.

## 7.3 Prevention/Mitigation

'Prevention' and 'mitigation' are so closely interconnected so as to be virtually indistinguishable. Mitigation measures seek to minimise the adverse consequences to health, environment and property in the event of an accident. Prevention/mitigation, in fact, are the key activities in the pre-disaster stage of an emergency and are the core of a comprehensive emergency plan.

Though prevention is achieved by fostering of safety culture by management of MAH unit, regular preventive maintenance and safety audits of individual units. However, where failure of preventive measures may result into off-site emergencies, these become the concern of the DCG and LCG. Suitable risk treatment measures have therefore, been identified in this plan.

Prevention of major accidents can be achieved mainly by:

1. Fostering a safety culture in the MAH Units.
2. Encouraging regular preventive and predictive maintenance and repairs of mechanical parts by managements.
3. Ensuring that safety audits, as mandated by law are done through creditable agencies and that the audit recommendations are faithfully implemented.
4. Promoting ALARP

## **1. Safety Culture**

DISH needs to promote safety culture in the MAH units located in their respective jurisdictions during their visits and inspections of such units. Such a culture should involve the top management down to the shop floor level of the unit. Promotion of Safety culture in an industry is affected through the following means, which could be monitored by DCG and LCG:

- By observing safety day/week;
- Recognising and suitably rewarding the employees who have helped avert accidents;
- Conducting refresher courses for employees involved in safety management;
- Conducting quizzes and competitions on relevant topics for employees and the local communities;
- Conducting inter unit competitions on the aspect of health and safety;
- Keeping local communities informed about effective steps being taken to safeguard the communities against specific hazards.

## **2. Effective Maintenance and Repairs of Mechanical Parts**

A regular schedule of preventive maintenance and repairs of each MAH installation should be developed and followed. Emergency alarms and valves, protective and emergency equipment and all devices critical to the orderly shutdown of operations in an emergency need special attention, by the unit management as well as on the part of various regulatory bodies.

## **3. Proper Safety Audits**

Industry needs to conduct regular safety audits to effect a progressive and continuing improvement of safety procedures at hazardous installations. The Director of Industrial Safety and Health should ensure that third party safety audits as per IS 14489 (2018) are conducted by competent and reputed independent parties and should establish a system to monitor implementation of recommendations in a time-bound format with proper follow-up.

## **4. Training and awareness programmes**

Regular training and awareness programmes on various topics including, as suggested in Chapter 4, should be ensured for MAH units' officers, regulators, administrators and community will make a change in overall safety and preparedness.

### **7.3 .1 Major Components of Prevention and Mitigation**

#### **1. Legislation**

Laws are important tools for mitigation. This aspect should be looked seriously through effective enforcement and monitoring.

Guidelines issued by MoEF&CC deal with contingency planning for organizing response operations in the event of an emergency that may develop in an industrial unit. The permission to establish a hazardous industrial unit is accorded by the concerned authority based on an EIA study and/or by the recommendation of EIA notification by the concerned state and Central government, keeping in view the risk parameters present, before the establishment of the industrial unit. This authority however, does not control land use planning around the industrial units. The result of this dichotomy is therefore, seen in unplanned development in and around industrial units, ignoring off-site impact contours and thereby substantially accentuating risk scenarios, subsequent to the establishment of the unit.

## 2. Land Use Planning

Land use planning is considered to be the most effective mitigation measure in case of failure of technology for minimizing the risks from chemical process industries and transportation of hazardous chemicals.

A generic approach for land-use cannot be applied directly as considerable development of the surrounding areas of MAH units has already been accrued. To limit further development the Department of Town and Country Planning should provide hazard disclosure reports to prospective buyers for any real estate transactions occurring in the vicinity of a hazard. Besides establishing vulnerable elements such as residential colonies, schools, hospitals and the like, need to be strictly prohibited.

It is recommended that spatial hazard reports in the vicinity of MAH units should be made available to the Directorate of Town and Country Planning and prominently publicised in the public domain. These reports should be consulted prior to any future development or transformation of present land use for any of their purpose. Chapter 2 and functional sub-plan-10 will help to other development and planning authority for future land use planning.

The availability of external emergency response agencies (fire brigade, police station, hospital etc.) should also be part of land-use planning considerations. For example, location of hospitals and treatment facilities should be in areas which are not likely to be affected in the event of an accident involving hazardous substances and yet are close enough for timely response in an emergency situation.

The vulnerable zones should be an important part of On-site and Off-site Emergency Management Plans, these zones will display the environmental and physical receptors after risk calculation. Fig 7.1 shows the risk categorisation with land-use.

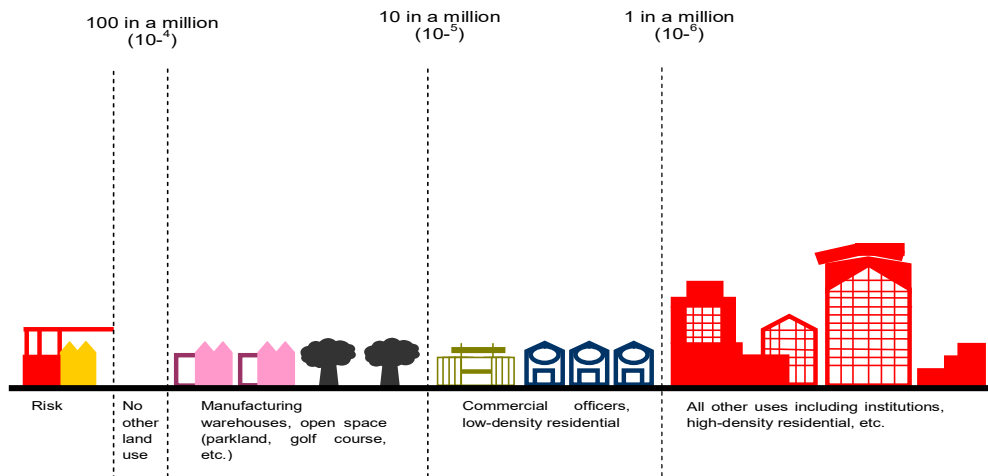


Fig. 7.1: Land Use Control as a Risk Management Tool with respect to physical and biological receptors

### 3. Safety Equipment and engineering

Safety equipments and engineering plays an vital role in prevention and mitigation, the reliable vendors of safety supplier are important. The Appendix - 16 provides a suggestive list of safety equipments suppliers

#### 7.4 Mitigation Measures in Gujarat State for:

##### 7.4.1 The following measures have been recommended for MAH industries/installations:

1. Standard Operating Procedure (SOP) should be very strictly implemented for prevention and mitigation of accidents.
2. Sprinkler system and leak detecting systems (sensors) need proper maintenance under the supervision of the safety officer.
3. In order to prevent the escape of spillage into the main drainage system, surface water from the storage area and from the manifold area should be directed to the main drainage through a water seal to avoid the spread of hydrocarbon.
4. Mock drills should be conducted as per the regulatory provisions and report can be opted as per the Functional plan -20. On-site plans must be modified based on the information as provided in Functional sub-plans.
5. Training and awareness will reduce the risks and by following ALARP principle.
6. The oil and gas units are suggested to follow OISD guidelines. Some of the useful standards are as follows:
  - OISD Standard 109 on "Process designing and operation:-Blow down and Sewer System".
  - OISD-RP-110 on "Recommended Practices on Static Electricity".
  - OISD Standard 116 on "Fire Protection Facilities for Petroleum Refineries and Oil/Gas Processing Plants".
  - OISD Standard 117 on "Fire Protection Facilities for Petroleum Depots and Terminals, Pipelines Installations and Lube Oil Installations."
7. ERDMP Regulations 2010 amended 2020 should be monitored in oil and gas industries including the CGDs and pipelines through coordination with PNGRB..

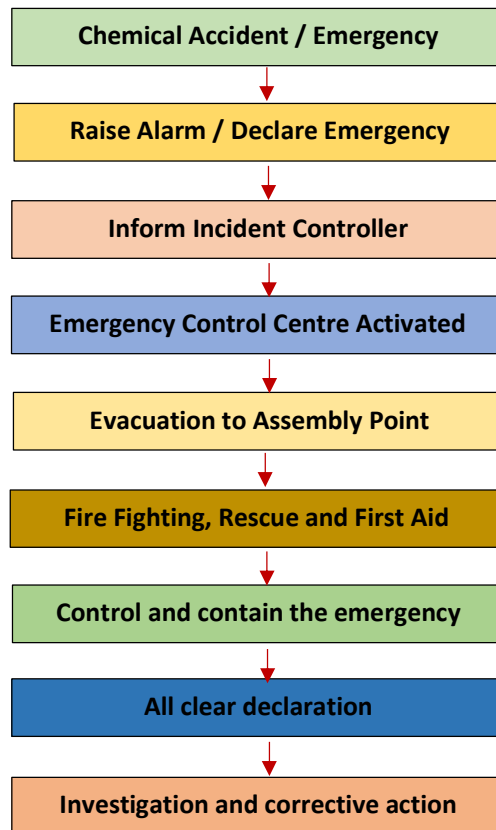
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## Chapter – 8

### On Site and Off-Site Emergency Plans

#### 8.1 On site emergency plan

- An on site emergency plan is a plan prepared by an industry to control and manage chemical accidents within the factory premises and to protect workers, property and the environment. To minimize the effect of fire, explosion and toxic release
- An on site emergency plan describes the action to be taken during an accident like fire, explosion, toxic gas release and hazardous chemical spill within the factory.
- The plan includes alarm system, emergency response team, communication, evacuation, rescue and fire fighting arrangement.
- It defines the roles of key personnel such as site controller and incident controller
- The plan is tested through periodic mockdrill and updated regularly.
- To restore normal operations safely after the emergency.



#### Key responsible persons

- Site controller – overall control of emergency
- Incident Controller – Handles the situation at accident site
- Emergency Response Team – fire, rescue, first aid, communication, air monitoring

**On site emergency plan guideline (Annexure -1 to 33)**

**Annexure-1**

**IDENTIFICATION OF THE FACTORY**

<b>No.</b>	<b>Particulars</b>			
1.	Full Name & address of the Factory			
2.	Full Name & address of the Occupier			
	Phone			
3.	Full Name & address of the Manager			
	Phone			
4.	Manufacturing process (Products)			
5.	Manpower Shift wise.	<b>Male</b>	<b>Female</b>	<b>Total</b>
	General (G)			
	First (A)			
	Second (B)			
	Third (C)			
	Total Workers			

**Annexure -2**

**Map of the Area (Industrial Cluster)**

**Annexure -3**  
**Factory Layout**

**Annexure – 4 : Information of Storage Hazards & Controls Measures**

Sr. No.	Name of the Hazardous Chemicals / substance (Specify Concentration if any)	Maximum Storage Capacity in MT	Type of Storage (Tank/ Drum/ Carboy / Bullet/ Tonner)	State of Storage (Liquid / Solid / Gas)	Storage Parameter (Specify Pressure & Temperature)	Place of its storage	Type of hazard (Flammable / Toxic / Explosive/ Corrosive /)	Control measures provided according to type of hazard	Name & contact number of In-charge person
1	2	3	4	5	6	7	8	9	10
1									
2									

**Annexure – 5: Material Safety Data Sheet**

**Annexure – 6: Information of Process and Vessel hazards and control measures**

Sr. No.	Name of the plant / Department	Name of the hazardous process and operation (Specify unit process and unit operation)	Name of the reactor / vessel / equipment (Specify reactor / vessel / equipment number)	Raw Materials in the process / operation with their quantity	Operating parameters of process / operations (Specify pressure / vacuum/ atmospheric & temperature etc.)	Types of hazards (Exothermic reaction, Run away reaction, pressure release, toxic release, fire, explosion, thermal decomposition etc.)	Control measures provided	Name & contact number of In-charge person
1	2	3	4	5	6	7	8	9
1								
2								

**Annexure – 7: Other Hazards & Control Measures**

No.	Name of the possible hazard	Its source & reason	Its effects on persons, property & environment	Place of effect	Control measures provided	Name & contact number of In-charge person
1	2	3	4	5	6	7
1						
2						

**Annexure – 8: Trade Waste Disposal**

No.	Type and Name of Trade Waste / effluents Generation	Quantity per month	Place and process of its generation	Treatment method of waste/ effluents	Place of safe disposal	Type of Hazard (Flammable / Toxic / Explosive / Corrosive)	Monitoring and control measures provided.	Name & contact number of In-charge person
1	2	3	4	5	6	7	8	9
1								
2								

**Annexure – 9 : Records of Past Incidents**

No.	Type of incident (major accident, emergency or disaster)	Date & time of occurrence	Its place	Duration	Time required in controlling it	No. of workers working at that time	Person affected		Person died		Effects on the survivors		Subsequent safety measures provided	Other details
							Inside the factory	Outside the factory	Inside the factory	Outside the factory	Immediate	Delayed		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

## Annexure – 10 GAS DISPERSION CONCENTRATION

**Table 10.1**

Name of Hazardous Chemicals	State of Chemical (Liquid / Gas / Solid)	Molecular Weight	Specific Gravity / Density	Vapour Density	TLV	STEL	IDLH	LC <sub>50</sub>

**Table – 10.2**

**Wind Speed: = ..... m/s, Weather Condition – D (Day & Night), Weather Season....., Wind Direction = .....**

Type of Leak Scenario (Small / Medium / Catastrophic Rupture)	Source of release (Tank / Pipeline/ Vent Stack)	Distance from leak source (meter)	Gas concentration (ppm)	Concentration zone (Danger zone / alert zone / safe zone)

**Table – 10.3**

Pictorial view of gas dispersion model (small, medium and Catastrophic Rupture)

**Annexure – 11: Evacuation Table**

Evacuation Table based on prevailing wind speed and Dispersion Model			
Material	Radius of immediate danger area (KM)	Dimension of Evacuation Area	
		Downwind (KM)	Crosswind (KM)

**ANNEXTURE-12 Environmental impact assessment**

Sr. No	Distance (radius from the factory)	Environment (neighboring factory, residential colony, village etc)	Population with composition						Possible consequence & Assessment					Types of control		
			Day time			Night time			Risk assessment					Measures		
			Healthy	Vulnerable	Total	Healthy	Vulnerable	Total	Type of risk & effect possible	Duration of leak	No. of people, property may be affected	Frequency of the hazard	Acceptable criteria	Available in the factory	Required from outside	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1																
2																
3																
4																
5																

**Annexure – 13: Weather Conditions**

Sr. No.	Period of the year Month	Wind speed (m/s)	Wind direction	Humidity	Weather conditions (dry, moist, rainy, cold, hot, stable, unstable, stormy etc.)	Pasquill Classification A To F
1	2	3	4	5	6	7
1	Jan					
2	Feb					
3	Mar					
4	April					
5	May					
6	June					
7	July					
8	Aug					
9	Sept.					
10	Oct					
11	Nov					
12	Dec					

**Annexure – 14: Incident Controllers**

Shifts	Number of Emergency Response Team members available in each shift	Incident Controller						Next Person		
		Name & Designation	Qualification	Place of availability		Phone No.		Name & Designation	Place of availability	Phone No.
				In the factory	Residence address	In the factory	Residence			
1	2	3	4	5	6	7	8	9	10	11
General										
First										
Second										
Third										

**Annexure – 15: Deputy Incident Controllers**

Shift	Sr. No. (Any one shall be available in each shift & on holidays on call)	Deputy Incident Controller's						Persons to be called if IC & Dy. IC both are not available		
		Name & Designation	Qualification	Place of availability		Phone No.		Name & Designation	Place of availability	Phone No.
				In the factory	Residence Address	In the Factory	Residence			
General										
First										
Second										
Third										

**Annexure – 16: Site Main Controller**

No.	Site Main Controller's							Next Person		
	Name in priority order	Designation	Qualification	Place of availability		Phone No.		Name & Designation	Place of availability	Phone No.
				In the factory	Residence Address	In the factory	Residence			
1	2	3	4	5	6	7	8	9	10	11
1										
2										

**Annexure – 17: Key Personnel**

No.									Next Person's				
	Department	Name (he may be called at any time for this plan)	Designation	Qualification	Place of availability		Phone No.		Name & Designation	Place of availability		Phone No.	
					In the factory	Residence address	In the factory	Residence		In the Factory	Residence Address	In the Factory	Residence
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1													
2													
3													
4													

Annexure – 18: Essential Workers

Shifts	Group No. (Any in group shall be available in each shift & on holiday on call)	Name and Designation	Trained for work of	Place of availability		Phone Number		Personal Protective Equipment required
				In the Factory	Residence address	In the Factory	Residence	
1	2	4	5	6	7	8	9	10
General								
First								
Second								
Third								

**Annexure – 19: Safe Assembly Points**

Identification No.	Location	Accommodation capacity	At time of emergency						
			Person In charge					Nearest phone number	PPE that will be provided
			Name & Designation	Place of availability		Phone Number			
				In the Factory	Residence Address	In the Factory	Residence		
1	2	3	4	5	6	7	8	9	10

Annexure – 20: Emergency Control Center

Location of the Center:						
Phone Nos. of the center: (1) External __						
No.	Emergency Equipment available in the center	Quantity in Nos.	Person who will handle / operate this equipment	Its period of operation		Notes
				Last	Present	
1	2	3	4	5	6	7
2						

**Annexure – 21(A) : Fire & Toxicity Control Arrangements**

- For flammable & toxic substances storage see Annexure-4 and for their processes see Annexure-6
- For Key Personnel & essential workers see Annexure-17 & 18
- Fire Water : No. of reservoirs ..... No. of tanks ....., Total quantity ..... Liters.

Fire Water sources and storage capacity	No. of hydrant point	No. of fire pumps, type & capacity	No. of hose reels & total length	No. of fire tenders and capacity	No. of Sprinklers/ Monitors				Alternate power arrangement	No. of CO <sub>2</sub> Extinguishers
					FIXED		PORTABLE			
					Lifting height	Pressure	Lifting height	Pressure		
1	2	3	4	5	6	7	8	9	10	11

Dry Powder Type			Foam Type			Water Jel products		Other Extinguishers		Personal Protective Equipments			
Type of powder & total quantity	No. of portable		Type of foam & total quantity	No. of portable		No. & size of blanket	Other Jel product quantity	Type	No or quantity	Respiratory		Non-respiratory	
	Extinguisher	Tonne r		extinguisher	Tonne r					Type	No	Type	No
12	13	14	15	16	17	18	19	20	21	22	23	24	25

### MUTUAL AID ARRANGEMENTS

Mutual Aid Arrangements											
Name & Address of the factories & Fire Stations	Approx distance from this factory	Contact		Fire fighting equipment available		PPE available		No. of experts & trained person available	Decontamination facility available	Gas detectors available	Other equipment available
		Person	phone	Type	Qty	Type	Quantity				
26	27	28	29	30	31	32	33	34	35	36	37

### Annexure – 22 : Medical Arrangements

For key personal & essential workers see Annexure – 17 & 18													
First aid Centres / Ambulance Room / OHC / Hospital										Ambulance van or alternate arrangement			
Sr. no.	Name & location	phone No	In charge person			Facilities & Equipment	Antidote available according to toxic exposure hazard in the factory	First aid available	Accommodation	Place of availability	Capacity	Facility in the van	Driver name & address
			Name & Desi.	Residence									
				Phone	Address								
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Doctors (all nearby)			Other Medical Staff			Mutual Aid Arrangements									
Name, address, phone	Residence		Name, address, phone	Residence		Name & address of the factories & Hospitals	Approximate distance	Contact		Facilities available					
	Phone No.	Address		Phone No.	Address			Person	Phone No.	Accommodation	Doctors	Other staff	Equipment	Antidotes	Ambulance
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

### Annexure – 23 : Transport & Evacuation Arrangement

For Key personnel and essential workers see Annexure – 17 & 18 and for Assembly points See Annexure – 19.										
Type of siren for evacuation .....										
Own Transport Center					Own Vehicles					
Name & location	Phone No.	In charge Person			Sr. No.	Type & No.	Capacity	No. & type of public warning instruments (refer Page 40)	Driver's Name & address	
		Name & design.	Residence							
			Phone	Address						
1	2	3	4	5	6	7	8	9	10	

#### Outside shelters for evacuated persons

Sr. No	Name, address & distance	Phone No	In charge Person			Accommodation capacity	Facilities available
			Name & designation	Residence			
				Phone	Address		
11	12	13	14	15	16	17	18

#### Mutual Aid Arrangements

Sr. No.	Name & address of the factories & outside transport centers including Bus & Railway Station	Distance	Phone No.	In charge Person			Vehicles available				
				Name & designation	Residence		Sr. No.	Type & No.	Capacity	No. & type of public warning instruments	Driver's Name & address
					Phone	Address					
19	20	21	22	23	24	25	26	27	28	29	30

**Annexure – 24 : Pollution Control Arrangement**

For key personal & essential workers see Annexure 17 & 18 for trade waste disposal. See Annexure. 8										
Water pollution Control					Air monitoring					
Type and Capacity of effluent treatment plant	No of Sample monitoring centers & its frequency	Other control Measures	Logbook & records	In charge person's name, address & phones	No. and place of sample monitoring centers	Type, parameters & frequency of tests	Wind direction indicator and velocity (m/s)	Instrument available	Logbook & records	In charge person's address & phones
1	2	3	4	5	6	7	8	9	10	11

Stack Monitoring						Scrubber incinerators etc.				Land pollution control				Pollution control board	
No. of location of sample places	Type. Parameters & frequency of tests	Control measures provided	Instruments available	Log book & records	In charge persons name addressee & phones no.	Location	Type and Capacity	For what	In charge person's name address & phones no.	No. on sample monitoring centers & frequency of monitoring	Other control measures	Log book & records	In charge person's name address & phones	Premises on obtained	Conditions fulfilled
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

### Annexure – 25 : Other Arrangements

For Key personnel and essential workers see Annexure – 17 & 18

Sr.No	Type and name of arrangements available	Qty	Place of availability	Phone No.	In charge person's		Mutual Aid Arrangements						
					Name & Desig.	Residence		Place where available	Qty. available	In charge person's			
						Phone	Address			Name designation	Phone		Address
							Off	Res.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14

**Annexure – 26 : Alarms & sirens**

Sr. no	Plant wise alarm points							The alarm (signal) is heard (seen) at	Sound difference if any			
	Plant / department / location			Sr. no. of the alarm point	Its place of location	Type of the alarm of siren	Its period of checking		Type of emergency	Type of alarm or siren	Duration of sounding	Type of sound of alarm /siren
	Name & location	No. of floor	Area of each floor									
1	2	3	4	5	6	7	8	9	10	11	12	13

**Annexure – 27 : Internal Phones**

Sr. No.	Name and location of plant	Phone number	Person available on this phone		
			Name and Design.	Design. or duty under on-site plan if any	Mobile number

**Annexure – 28 External Phones**

<b>Sr. no.</b>	<b>Name and Design.</b>	<b>Place</b>	<b>Phone no.</b>		
			<b>Code</b>	<b>Office</b>	<b>Resi.</b>
1					
2					

**Annexure – 29: Nominated persons to declare major emergency**

Sr. no.	Name of the plant department or location	Name & designation of the nominated person to declare major emergency	Duty or designation given, under the on-site/ off-site emergency plan.	Phone no.	Residence	
					Phone No.	Address
1	2	3	4	5	6	7
1						
2						

**Annexure 30 : A form to record emergency telephone call**

<b><u>Part A : Essential Information</u></b>	
Details of call as reported	
Caller's Name & designation _____ Date _____ Time _____ Phone no. _____	
Purpose of call. Is any particular advice required immediately?	
Name of chemicals. To be spelt our clearly	
Brief description of incident. Fire/ Explosion/ Liquid Spill/ Gas release. Quantity involved. Packaging/ storing/ handling/ using details. Location of incident. Cause, if known, in brief.	

<b><u>Part B : Information to be obtained if readily available.</u></b>		
Has anyone been injured? Affected by chemicals?	Yes/ No	If yes, how many?
What first-aid has been given?		
Has any one been taken to hospital? If Yes, address of the hospital.	Yes/No	
Is the road blocked?	Yes/ No	Closed to traffic? Yes/ No
Who owns the chemicals? Has the owner been informed?	Yes/No	
If caused by vehicle, Vehicle Number _____ and Name & Address of the Owner _----		
Has the owner been informed?	Yes/ No	
To whom was the load consigned?		

**ANNEXURE - 31 : STATUTORY COMMUNICATION**

Statutory information to be given to :	Periodicity of such information to be given	Date of last information given	To how many persons	Suggestions, received, if any.	Last date of implementation of Useful suggestions.
The workers					
The general public and neighboring firms					
District Emergency Authority					
Factory Inspectorate					

**Annexure – 32 Separation Distances**

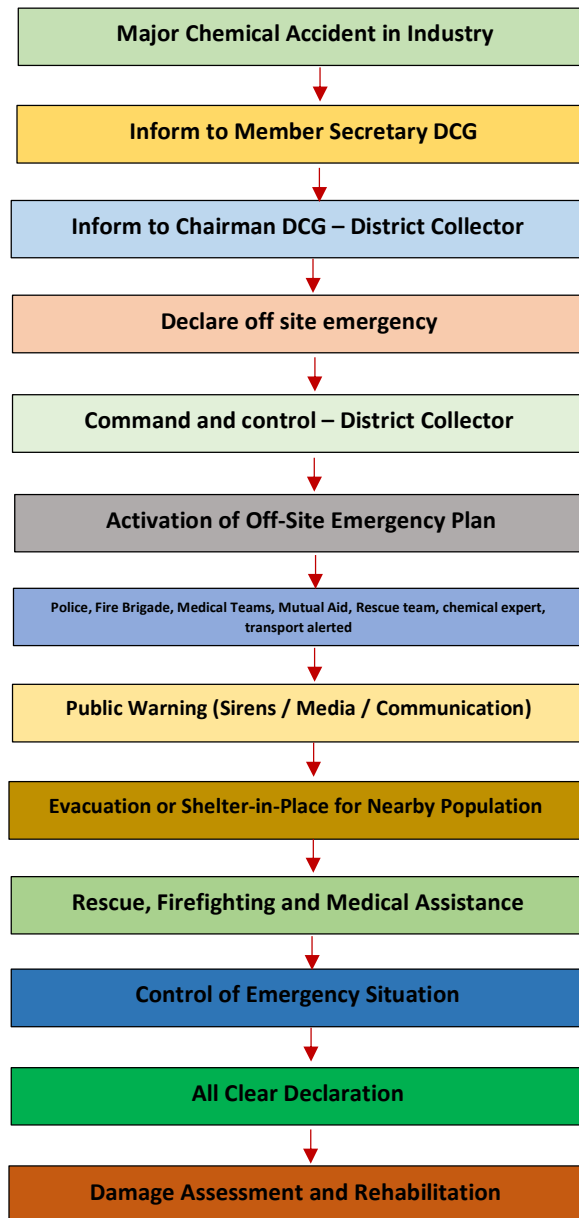
Sr. No	Substance	Tank		Separation distance (meter)	Distance at present
		Capacity (MT)	Nos.		
1	2	3	4	5	6
1					
2					
3					

**Annexure – 33 Emergency Instruction Booklet**

Sr. No.	Role to be played as [Name, emergency designation viz. Incident controller, particular key person or essential worker doing the job of ]	His emergency duties/ functions (Narrate in short and clear sentences and in 1,2, 3)	Also refer (Other relevant document of the factory viz. Safety Manual etc.)	He should report at (the incident place or control room etc.)
1				
2.				
3.				
4.				

## 8.2 Off-Site Emergency Plan

- An Off-Site Emergency Plan is a plan to manage the impact of a major chemical accident outside the factory premises and to protect the public, property, and environment.
- An Off-Site Emergency Plan deals with emergencies where the effects of an accident spread beyond the factory boundary.
- It is prepared by the District Administration or District Crisis Group.
- The plan includes warning systems, evacuation of nearby population, medical aid, and public safety measures.
- Various agencies such as police, fire brigade, hospitals, and local authorities work together during the emergency.
- Mock drills are conducted periodically to ensure effective response and coordination.



### Composition of Off Site Emergency Responder

1	District Collector	Chair Person	Overall command and control
2	Inspector of Factories	Member-Secretary	Inter departmental Co-ordination, Conducting mock drills, Preparation of off site emergency plan
3	District Energy Officer	Member	Electric supply restoration
4	Chief Fire Officer	Member	Fire Fighting operation and rescue
5	District Information Officer	Member	Communication, public awareness
6	Controller of Explosives	Member	Technical Expertise on explosive material involved
7	Chief, Civil Defense	Member	Relief distribution, shelter management
8	One Representative of Trade Unions to be nominated by the District collector	Member	Evacuation support, shelter management
9	Deputy Superintendent of Police	Member	Traffic control, area cordoning, law and order, evacuation support
10	District Health Officer/Chief Medical Officer	Member	Medical emergency management, activation of hospitals and ambulance, medical surveillance and toxicological support
11	Commissioner, Municipal Corporations	Member	Evacuation support, relief and shelter management
12	Representative of the Department of Public Health Engineering	Member	Medical support
13	Representative of Pollution Control Board	Member	Environment monitoring
14	District Agriculture Officer	Member	Evacuation support, Community awareness
15	4 Experts (Industrial Safety & Health) to be nominated by the District Collector	Member	Technical guidance on chemical hazard, evacuation support
16	Commissioner (Transport)	Member	Logistic support, Infrastructure restoration

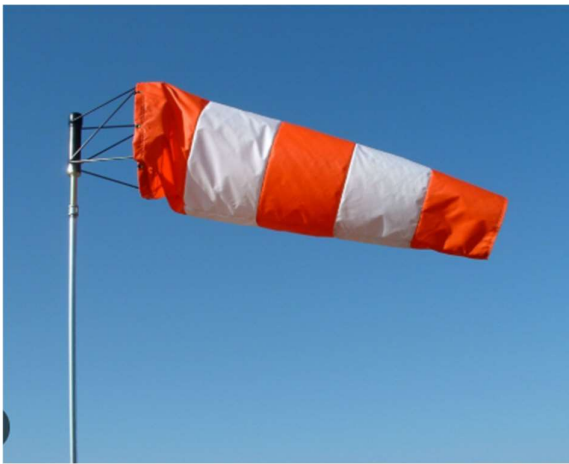
17	One Representative of Industry to be nominated by the District Collector	Member	Mutual aid coordination
18	Chair-person/Member-Secretary of Local Crisis Groups	Member	On site emergency response support, mutual aid coordination



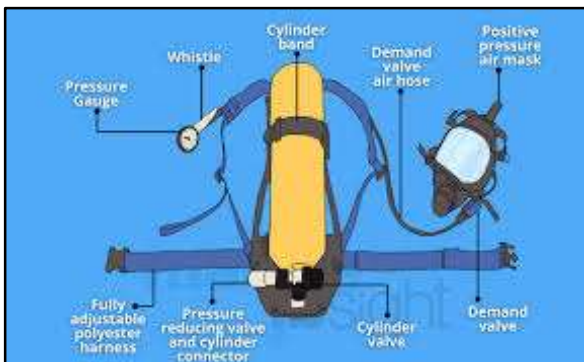
**Toxic gas detectors (where needed)**



**Wind direction/speed indicators**



**Self-contained breathing apparatus**



## Protective clothing



## Decontamination Facilities



**Chapter – 9**  
**Mock drill report**

**Off-Site Emergency Mock Drill Report Format**

**1. General Information**

- Name of Factory / Location:
- District:
- Date of Mock Drill:
- Time of Drill:
- Type of Emergency Simulated: (Gas leak / Fire / Explosion etc.)
- Weather Conditions: (Temperature, Wind speed, Wind direction)

**2. Objective of the Mock Drill**

- To test the effectiveness of the Off-Site Emergency Plan.
- To evaluate coordination between district authorities and emergency services.
- To assess response time and communication system.

**3. Scenario of the Mock Drill**

- Description of simulated accident -
- Chemical involved -
- Quantity released / affected area -
- Expected impact on nearby population -

**4. Department / Agencies Participated**

1	District Collector	Overall command and control
2	Inspector of Factories	Inter departmental Co-ordination, Conducting mock drills, Preparation of off site emergency plan
3	District Energy Officer	Electric supply restoration
4	Chief Fire Officer	Fire Fighting operation and rescue
5	District Information Officer	Communication, public awareness
6	Controller of Explosives	Technical Expertise on explosive material involved
7	Chief, Civil Defense	Relief distribution, shelter management

8	One Representative of Trade Unions to be nominated by the District collector	Evacuation support, shelter management
9	Deputy Superintendent of Police	Traffic control, area cordoning, law and order, evacuation support
10	District Health Officer/Chief Medical Officer	Medical emergency management, activation of hospitals and ambulance, medical surveillance and toxicological support
11	Commissioner, Municipal Corporations	Evacuation support, relief and shelter management
12	Representative of the Department of Public Health Engineering	Medical support
13	Representative of Pollution Control Board	Environment monitoring
14	District Agriculture Officer	Evacuation support, Community awareness
15	4 Experts (Industrial Safety & Health) to be nominated by the District Collector	Technical guidance on chemical hazard, evacuation support
16	Commissioner (Transport)	Logistic support, Infrastructure restoration
17	One Representative of Industry to be nominated by the District Collector	Mutual aid coordination
18	Chair-person/Member-Secretary of Local Crisis Groups	On site emergency response support, mutual aid coordination

### 5. Sequence of Events

Activity	Times
Emergency reported	
Alarm raised	
Emergency team mobilized	
Fire brigade arrival	
Rescue / evacuation	
Emergency declared under control / All clear	

## **6. Resources Used**

- Fire tenders -
- Ambulances -
- PPE / SCBA sets -
- Gas detectors -
- Communication equipment -

## **7. Key Observations**

- Response time of emergency services
- Coordination among departments
- Functioning of communication system
- Effectiveness of evacuation procedure

## **8. Deficiencies Observed**

- Delay in response
- Communication gaps
- Lack of equipment / training

## **9. Recommendations / Corrective Actions**

- Improve communication system
- Conduct regular training programs
- Maintain emergency equipment properly

## **10. Conclusion**

To evaluate the preparedness and coordination among different emergency response agencies.

**-: Appendix: -**

- Appendix 1- District Wise List of MAH Industries
- Appendix 2- District Wise DCSs and LCGs Wise Important Phone Numbers
- Appendix 3- State Emergency Operation Centre (SEOC) Contact Details
- Appendix 4- Secretaries of Gujarat State
- Appendix 5- Police Commissioners and DIGs
- Appendix 6- District Collectors
- Appendix 7- Control Room – Central and State
- Appendix 8- BN, NDRF, Chiloda Road, Gandhinagar
- Appendix 9 - Inter-district and Inter-state Aspects

**Appendix- 1**  
**District Wise List of MAH Industries**

SR. NO.	NAME OF FACTORY AND ADDRESS	DISTRICT	HAZARDOUS CHEMICALS	MAX. STORAGE CAPACITY IN TONES
1	A K DYE CHEM 174/2/1, OPP. SHAHWADI PUMPING STATION, SAIJPUR-GOPALPU ROAD, NAROL, AHMEDABAD	AHMEDABAD	CHLORINE	16 MT
2	AAJVETO MANUFACTURING PVT LTD S.R.NO.50/1/1, 50/1/2 & 52/1/2/3, AT - NAVAGAM ROAD, VILL. LAKHDIRNAGAR, TAL . & DIST MORBI	MORBI	PROPANE / LPG	49.98
3	AARADHYA INDUSTRIES S.R.NO.50/2, AT-PADDHARI TO MITANA ROAD, VILLAGE-DHROLIYA, TAL-TANKARA, DIST-MORBI	MORBI	FORMALDEHYDE SULFURIC ACID	10 KL 12 KL
4	AARKO GRANITO LLP LAKHDIRPUR ROAD, VILL:- GHUNTU, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE/ LPG	49.48
5	AARTI DRUGS LTD. 2902/2904, GIDC, VALSAD, SARIGAM GUJARAT	VALSAD	ETHYLENE OXIDE  OLEUM (SULPHAR TRIOXIDE)	14  45
6	AARTI IND.LTD. (ANUSHAKTI CHEMICAL AND DRUGS PVT.LTD) SURVEY NO.1430/1,NH-8A, BHACHAU TA-BHACHAU	KUTCH	CHLORINE BENZENE PETROLEUM CLASS-A	87 MT 50 MT 464 KL
7	AARTI INDUSTRIES LIMITED PLOT NO. 758/1/2 &3, GIDC, JHAGADIA, TA-JHAGADIA, DIST-BHARUCH	BHARUCH	METHANOL BENZENE TOLUENE	191 MT 981 MT 623 MT
8	AARTI INDUSTRIES LTD. PHASE III, PLOT NO. 801, GIDC VAPI, VALSAD, GUJARAT	VALSAD	CHLORINE	144
9	AATMAJYOT CHEM PVT LTD NH 8/A, OPP. DADASHRINAGAR, AT-JUNA SADULKA, MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	40 MT 20 MT 30 MT
10	ABHAY LAMINATE LLP NH 8 A, BAHADUR GADH, SOKNADA ROAD, MORBI	MORBI	FORMALDEHYDE METHANOL PHENOL	25 MT 25 MT 25 MT
11	ABODE GRANITO LLP S.R.NO.233 / 1, 233 / 1 / P 1, AT - MORBI - HALVAD ROAD, VILL :- NICHU MANDAL, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
12	ABROAD VITRIFIED PVT.LTD. S.R.NO. 279 P-1, 279 P-2/P, 8-A.N.H.,JETPAR ROAD	MORBI	PROPANE/ LPG	49.81
13	ACCORD PLUS CERAMIC PVT LTD S.R.NO.134 - P 7, AT - MORBI - HALVAD ROAD, VILL.UNCHI MANDAL, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
14	ACCORD VITRIFIED PVT LTD S.R.NO.151 P 1 / P 2, 151 P 2 / P 2, 151 P 3 / P 2, 151 P 4 / P 2, 151 P 8 / P 2, & 153 / 1 P 1 / P 2, 153 / 3 / 1 P 1 / P 1, 153 / 3 P 1 / P 1, 153 / 3 P 2 / P 1, AT - MORBI - HALVAD ROAD, VILL. UNCHI MANDAL, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	49.98

15	ACCRA PAC (I) PVT. LTD. PLOT NO. 1105 PHASE III, GIDC VAPI-396 195 GUJARAT	VALSAD	LPG	35
16	ACECON VITRIFIED PVT. LTD. SURVEY NO. 147/1 & 2, 149, 179/P-2&3, 182/1&2, 183/P-1&2, NH 8-A, MATERL ROAD, WANKANER-363621, DIST-MORBI	MORBI	PROPANE	49 MT
17	ACER GRANITO PVT. LTD. N. H. 8-A, LAKHADHIRPUR ROAD, MORBI	MORBI	LPG	16 MT
18	ACHAL CHEMICAL SURVEY NO 202/13/P, AT-SOKHDA, TA-KHAMBHAT, DIST-ANAND-388620	ANAND	CHLORINE	30 MT
19	ACUTE CERAMIC PVT LTD S.R.NO.262, AT - JETPAR ROAD, RANGPAR	MORBI	PROPANE/ LPG	16.75
20	ACUTE CERAMIC PVT LTD S.R.NO.262, AT - JETPAR ROAD,RANGPAR	MORBI	PROPANE/ LPG	20
21	ADANI HAZIRA PORT PVT LTD, AT&POST HAZIRA, TAL-CHORIYASI, SURAT-394 270	SURAT	flammable chemicals	100000
22	ADANI TOTAL GAS LTD. PLOT NO. 448, GIDC, INDUSTRIAL ESTATE, PORBANDAR	PORBANDAR	LNG	592000M <sup>3</sup>
23	ADAR CHEMICALS PVT. LTD. V-LUNA, PADRA VADODARA GUJARAT	VADODARA	CHLORINE	18
24	ADICON CERAMICA LLP SURVEY NO. 343, 345, 346, 347 P1, 347 P2, 348, 349 P1, 349 P2, 8-A NATIONAL HIGHWAY, MORBI	MORBI	PROPANE / LPG	49.01
25	GRASIM (ADITYA BIRLA GROUP LTD.) A UNIT OF INDIAN RAYON INDUSTRIES LTD JUNAGADH HIGHWAY ROAD, VERAVAL, JUNAGADH, GUJARAT	GIR SOMNATH	CHLORINE CARBON DISULPHIDE	300 MT 585 MT
26	ADMIN VITRIFIED PVT LTD S.R.NO.506 P 1 / P 2, 506 P 3 / P 2 & 506 P 4 / P 2, KHOKHARA ROAD, VILL :-BELA (RANGPAR), TAL :- & DIST :- MORBI	MORBI	PROPANE/ LPG	49.98
27	ADON CERAMIC LLP SR. NO. - 533, 537/P1, 537/P2, KHOKHRA HANUMAN MANDIR ROAD, BELA (RANGPAR), TAL. - MORBI, DIST. - MORBI	MORBI	PROPANE / LPG	41.88
28	ADOR CERAMICS PVT LTD 8-A, NATIONAL HIGHWAY, BEHIND PENGVIN CERAMICS, VILL.SARTANPAR, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	38.88
29	ADORATION CERAMICA PVT LTD S.R.NO.43, NR. JAMSAR CHOKDI, BHIMGUDA ROAD, VILL :- VIRPAR, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
30	ADVANCE PETROCHEMICALS LTD. 167, PIRANA ROAD, AHMEDABAD PIPLAJ-382 405 GUJARAT	AHMEDABAD	ETHYLENE OXIDE	14

31	AEGIS GAS (LPG) INDIA LTD. KHEDA TO KHAMBAT ROAD TRANJA, MATAR KHEDA-387 520 GUJARAT	KHEDA	LPG	180 MT
32	AEGIS GAS (LPG) PVT. LTD SURVEY NO. 42/B, RAMPARA-2, NEAR PIPAVAV PORT, PIPAVAV, RAJULA, AMRELI	AMRELI	LPG PROPANE	5227 MT 4657 MT
33	AEGIS GAS (LPG) PVT. LTD. SR.NO. 239/P1, NR. DHROL TOLL TAX, DRANGDA, JAMNAGAR	JAMNAGAR	LPG / PROPANE	60 M <sup>3</sup>
34	AEGIS GAS LPG PVT LTD PLOT NO. 15 & 16, KUVADVA GIDC, RAJKOT AHMEDABAD HIGHWAY, KUVADVA, RAJKOT-360003	RAJKOT	LPG	18.7 MT
35	AEGIS VOPAK TERMINALS LTD. (UNIT-I) PLOT NO. 3,4,5, 6, KANDALA, TA-GANDHIDHAM, KUTCH	KUTCH	LPG PROPANE	32 MT 32 MT
36	AERO INDUSTRIES PLOT NO. 654/A GIDC VAPI-396 195 GUJARAT	VALSAD	LPG	28
37	AETHER INDUSTRIES LTD. PLOT NO 8203, GIDC, SACHIN, DIST-SURAT-394230	SURAT	ETHYLENE OXIDE METHANOL ETHANOL ISO BUTYLENE	10 MT 27 KL 27 KL 10 KL
38	AGILIS VITRIFIED PVT LTD SR.NO.- 508P1, 508P1/P1, 508 P2,509 /1 P1,509 /1 P2, AT.- 8 - A NATIONAL HIGHWAY, KHOKHARA HANUMAN ROAD, VILL:- BELA (RANGPAR), TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE / LPG	49.98
39	AGIS GAS(INDIA) LTD. PORT OF PIPAVAV AT UCHHAIYA, TA- RAJULA AMRELI-365 560 GUJARAT	AMRELI	LPG	2700
40	AGROCEL IND. LTD. GREATER RANN OF KUTCH, BHUJ KUTCH GUJARAT	KUTCH	CHLORINE	68 MT
41	AGROSEL INDUSTRIES PVT. LTD. 442, 443, 444, 452/3-P, VILLAGE-AVANIA, GHOGHA ROAD, TA-GHOGHA, DIST-BHAVNAGAR	BHAVNAGAR	BROMINE	66 MT
42	AHIR SALT & ALLIED PRODUCTS PVT. LTD. SURVEY NO. 573, PAIKI, MITHIROHAR, GANDHIDHAM - 370210, KUTCH	KUTCH	ACN TOLUENE METHANOL ACETONE	2000 MT 5000 MT 10000 MT 2000 MT

43	AIM LAMINAR PVT. LTD. SURVEY NO. 485, 486, NR. GOKULESH PETROL PUMP, VILL-KANERA, TA & DIST-KHEDA	KHEDA	PHENOL FORMALDEHYDE METHANOL	11 MT 13 MT 8.9 MT
44	AIR LIQUID INDIA HOLDING PVT. LTD. 38/1, GIDC, JHAGADIA	BHARUCH	LIQUID OXYGEN LIQUID NITROGEN H2 GAS	350 465 1.2
45	AIROLAM LIMITED DALPUR VILLAGE, NANANPUR APPROACH ROAD, SABARKANTHA	SABARKANTHA	FORMALDEHYDE METHANOL PHENOL	45 MT 35 MT 40 MT
46	AIRONA TILES LIMITED BLOCK NO 121, CERAMIC ZONE, AT-DALPUR, TA-PRANTIJI, DIST-SABARKANTHA	SABARKANTHA	LPG	20 MT
47	AKSHAR ORGANICS PVT. LTD. PLOT NO 47/1/6 GIDC NANDESARI VADODARA	VADODARA	CHLORINE	18
48	AKSHARCHEM (INDIA) LTD. 166/169, INDRAD, KADI-KALOL ROAD KADI-KALOL ROAD DIST. MEHSANA GUJARAT	MEHSANA	ETHYLENE OXIDE	20
49	ALFA VITRIFIED PVT LTD S.R.NO.943 P 1, 943 P 3, 8-A N.H., LAKHDIRPUR ROAD, VILL.GHUNTU, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	16.74
50	ALFANSO VITRIFIED PVT.LTD. S.R.NO. 526 P1-P1, 529, JETPAR ROAD, SAPAR	MORBI	PROPANE/ LPG	49.98
51	ALINTA GRANITO PVT.LTD. S.R.NO. 164 & 165P1, SARTANPAR ROAD, RATAVIRDA, MORBI	MORBI	PROPANE / LPG	16.74
52	ALIVE GRANITO LLP SURVEY NO. 562 P/1 P2, 563 8-A NATIONAL HIGHWAY, KHOKHARA HANUMAN ROAD,	MORBI	PROPANE/ LPG	49.98
53	ALKYL AMINES CHEMICALS LTD. D-2/CH/149/2, GIDC, DAHEJ-2, DIST-BHARUCH	BHARUCH	AMMONIA TRI METHYL AMINE METHANOL MONO METHYL AMINE DI METHYL AMINE	186 MT 96 MT 1390 MT 101 MT 200 MT
54	ALLIANCE VITRIFIED PVT LTD 8-A N. H., OPP. G.E.B. FEEDER, B/H AIRSON CERAMIC INDUSTRIES,VILL. LALPAR TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
55	AMAL RASAYAN LTD. 136/137, GIDC ANKLESHWAR BHARUCH-393002	BHARUCH	OLEUM (SULPHUR TRIOXIDE)	500 MT
56	AMBITION MICA LIMITED PLOT NO. 309, VEHLAL ROAD, AT-ZAK, TAL-DEHGAM, DIST-GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE METHANOL PHENOL	20 MT 30 MT 70 MT

57	AMBUJA INTERMEDIATES LTD. S.N.-1152, CHHATRAL-MEHSANA HIGHWAY, VILLAGE-RAJPUR, TAL-KADI, DIST-MEHSANA-382740	MEHSANA	OLEUM 65% NITRIC ACID NAPHTHALENE ACETANILIDE PARA NITRO ANILINE	90 MT 50 MT 2 MT 40 MT 50 MT
58	AMI ORGANICS, PLOT NO.313-315, PHASE-2, GIDC-VATVA,AHMEDABAD	AHMEDABAD	CHLORINE	27 MT
59	AMITY RESINS PLOT NO. 1636, GIDC, VILLAGE-SARIGAM, TAL-UMERGAM, DIST-VALSAD-396155	VALSAD	FORMALDEHYDE PHENOL METHANOL HEXAMINE	40 MT 80 MT 5 MT 15 MT
60	AMORA CERAMICS PVT LTD S.R.NO.147 / 1 P 2, AT - SARTANPAR ROAD, VILL :- SARTANPAR, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	16.72
61	AMUL INSECTICIDES PVT.LTD. C1B-112/4,GIDC,ESTATE, KALOL-382725,TA-KALOL GUJARAT	GANDHINAGAR	PHORATE	10 TON
62	AMW AUTOCOMPONENT LTD , BHUJ-BHACHAU HIGHWAY, 34 KM, KANAIYABE, BHUJ-KUTCH	KUTCH	LPG	36
63	AMW MOTORS LTD. , BHUJ-BHACHAU HIGHWAY, 34 KM, KANAIYABE, BHUJ-KUTCH	KUTCH	PROPANE	50
64	ANCHOR ELECTRICALS PVT.LTD. BAMTI DHARAMPUR VALSAD	VALSAD	LPG	19 MT
65	ANMOL CERAMIC 8-A NATIONAL HIGHWAY, NEAR METRO CITY, LAKHDHIRPUR ROAD, MORBI-2	MORBI	PROPANE/ LPG	16.75
66	ANMOL CERAMIC 8-A NATIONAL HIGHWAY, NEAR METRO CITY, LAKHDHIRPUR ROAD, MORBI-2	MORBI	PROPANE/ LPG	16.75
67	ANMOL CHLORO CHEM 148, CHHATRAL KADI ROAD KALOL GANDHINAGAR	GANDHINAGAR	CHLORINE	40.5 MT
68	ANTIEK VITRIFIED LLP SURVEY NO. 734 P1, 734 P2, 839 P2, 840/1, 841/1 P1, 842 P1, 842 P2, 842 P3,842 P4, 843, 844 P1,844 P2, 845, 846, LAKHDHIRPUR ROAD	MORBI	PROPANE/ LPG	25.12
69	ANTILA CERAMIC PVT LTD MORBI - JETPAR ROAD, VILL. BELA, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
70	ANTIQUA MARBONITE PVT LTD. LAKHADHIRPUR ROAD, MORBI	MORBI	PROPANE	41 MT
71	ANTONOVA TILES (INDIA) PVT LTD S.R.NO.51 P 1 / P 2, 51 P 2 / P 1 , AT - GALA - SAPAR ROAD, VILL. JASMATGADH, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	19.99
72	ANUGRAH INDUSTRIES PVT.LTD. PLOT NO. D-3/26-1 & GIDC, DAHEJ, VILL-SAMBHETI, TA-VAGRA, DIST-BHARUCH	BHARUCH	CHLORINE	140 MT

73	ANUGRAH IN-ORG (P) LTD. 1088/B, LAMDAPURA MANJUSAR SAVLI VADODARA	VADODARA	CHLORINE	37.8 MT
74	AQSA CERAMIC LLP S.R.NO.293 P 1, 293 P 3, AT - JETPAR ROAD, VILL.JIVAPAR (CHAKAMPAR), TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
75	ARCHEAN CHEMICAL IND.PVT.LTD.-GREATER RANN OF KUTCH, HAJIPIR, KUTCH.	KUTCH	BROMINE CHLORINE	90 MT 270 MT
76	ARCHIT ORGANOSYS LTD. SURVEY NO. 228/1-A, PAIKI 7 & PAIKI 2, VILLAGE- NARMAD, TA-DIST-BHAVNAGAR	BHAVNAGAR	CHLORINE HYROGEN	90 MT
77	ARIES COLORCHEM PVT. LTD. PLOT NO. DP-56 & DP-57, SAYKHA GIDC TOWN, SAYKHA, DIST-BHARUCH	BHARUCH	ETHYLENE OXIDE  OLEUM	90 KL  20 KL
78	ARK STONE LLPSR. NO.- 539/P1/P1, 540, 541, AT.- JETPAR ROAD, VILL:- SAPAR, TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE / LPG	16.74
79	ARKITON TILES LLP S.R.NO.562 AT - JETPAR ROAD, VILL. SAPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
80	AROChem INDUSTRIES PVT LTD, PLOT NO-154, GIDC VAPI -396195	VALSAD	Oleum 65%(SO3)	38
81	ASHAHI SONGWON COLORS LTD PLOT NO.167/168,VI.INDRAD, TAL.KADI	MEHSANA	CHLORINE	36 MT
82	ASIAN AEROSOL OAN PVT. LTD. AKLARA, TAL-UMARGAON, VALSAD-396105	VALSAD	LPG PROPANE	47 MT 42 MT
83	ASSOCIATED INTERMEDIATES & CHEMICALS. A-1-5 PHASE-I, VATVA, AHMEDABAD	AHMEDABAD	ETHYLENE OXIDE	7.5
84	ASSOCIATES HIGH PRESSURE TECHNOLOGY PVT. LTD. PLOT NO. 543, 560, NEW KANDLA, SEZ, GANDHIDHAM, KUTCH	KUTCH	LPG LIQUID OXYGEN	30 15
85	ASTA CERAMIC PVT.LTD. SR.NO:-314 P2 / P2, AT:- JETPAR ROAD, VILL:- RANGPAR.	MORBI	PROPANE/ LPG	16.74
86	ASTICA TILES LLP JETPAR ROAD, VILL:- BELLA(RANGPAR), TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE/ LPG	41.89
87	ASTILA CERAMIC PVT LTD S.R.NO.357 P 1, 357 P 2, AT - JETPAR ROAD, VILL :- RANGPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
88	ASTIS CERAMIC LLP JETPUR ROAD, VILL-BELA, TA-DIST-MORBI	MORBI	PROPANE / LPG	16.74 MT
89	ASTONIA CERAMIC PVT LTD S.R.NO.561-P1, 561-P2, AT - JETPAR ROAD, BELA (RANGPAR), DIST :- MORBI	MORBI	PROPANE / LPG	16.74
90	ATUL LIMITED 297, GIDC ANKLESHWAR BHARUCH	BHARUCH	LIQ SO3 SO2	80 MT 15 MT

91	ATUL LTD. P.O. ATUL VALSAD-396 020 GUJARAT	VALSAD	CHLORINE SO3(Oleum) COCL2 (Phosgene)	200 110 10
92	AUDI CERAMIC LLP S.R.NO.255 P 1, 255 P 2, AT - GALA - SAPAR ROAD, VILL.VAGHPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.75
93	AVALTA GRANITO PVT LTD S.R.NO.159, 159 / P 1, 159 / P 2, 159 / P 2 / P 1, AT - SARTANPAR ROAD, 8-A N.H., VILL.RATAVIRDA, TAL.WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	33.5
94	AVENGER CERAMIC S.R.NO.554P2/P1, 554P2/P2, 554P3/P1,AT KHOKHARA HANUMAN ROAD, VILL. BELA, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
95	AVENS TILES LLP SR.NO.- 515 P1, 543 P1/P2 AT.- KHOKHARA HANUMAN ROAD, 8A NATIONAL HIGHWAY, VILL:- BELA (RANGPAR), TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
96	AVLON CERAMIC PVT. LTD. S.R.NO.35 P 1, 35 P 2, 39 OLD GHUNTU ROAD, VILL. MAHENDRANAGAR, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	16.74
97	AXISON VITRIFIED PVT LTD S.R.NO.1268, 1269, 1270, AT - MALIYA - HALVAD STATE HIGHWAY,VILL :- KHAKHARECHI, TAL :- MALIYA (MI.)	MORBI	PROPANE/ LPG	16.74
98	AXISON VITRIFIED PVT. LTD. SR. NO. 1268- 1217, MALIYA-HALVAD ROAD, B/H CASVA TILES, AT-KHAKHRECHI, TA-MALIYA, DIST-MORBI	MORBI	PROPANE	20 MT
99	AXWELL GRANITO PVT LTD S.R.NO.139/1, AT - MORBI HALVAD ROAD, VILL:- UNCHI MANDAL,TAL&DIST:-MORBI	MORBI	PROPANE / LPG	16.74
100	AYUSHI CHEMICAL PVT. LTD. S.NO. 452+453/P, VADUCHI MATA ROAD, GIDC, AT-NEJA, TA-KHAMBHAT, DIST-ANAND	ANAND	CHLORINE	19.8 MT
101	BALAJI FORMALIN PVT. LTD. 1398, VILLAGE-MOTI BHOYAN, TAL-KALOL, DIST- GANDHINAGAR	GANDHINAGAR	METHANOL FORMALDEHYDE	490 MT 1145 MT
102	BASE METAL CHEMICAL PLOT NO. 2, R.S. NO. 1087/B. MANJUSAR VIL. MANJUSAR, SAVLI, VADODARA LAMDAPURA ROAD GUJARAT	VADODARA	CHLORINE	18.9
103	BAYAR VAPI PVT.LTD. PLOT NO. 306/3 PHASE II, GIDC VAPI-396 195 GUJARAT	VALSAD	BROMINE	100
104	BAYCHEM INTERMEDIATES S.NO. 374 & 363, VADUCHI MATA ROAD, VILLAGE-LUNEJ, TA-KHAMBHAT, DIST-ANAND	ANAND	CHLORINE	19.8 MT

105	BEJ CERAMIC 8-A N.H., B/H LALPAR 132 KVA SUB STATION, VILL.NEW JAMBUDIYA. TAL. & DIST.MORBI	MORBI	PROPANE / LPG	16.74
106	BELL LAMINATES 8-A, NATIONAL HIGHWAY, AT-OLD JAMBUDIA - 363642, MORBI	MORBI	PHENOL METHANOL FORMALDEHYDE	50 MT 20 MT 38 MT
107	BENTA CERAMIC PVT LTD S.R.NO.157 P - 2, AT - JETPAR ROAD, BELA, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
108	BHABHA CERAMIC PVT. LTD. S.NO.615/P-1, LAKHADHIRPUR ROAD, 8-A NATIONAL HIGHWAY, AT:GHUNTU. MORBI	MORBI	PROPANE / LPG	16.74
109	BHAGERIA DYE CHEM LTD. 4063/8 PH-IV, GIDC VAPI GUJARAT	VALSAD	ETHYLENE OXIDE	14.5
110	BHAGWATI INDUSTRIES POT 3522, 23, 24, GIDC CHHATRAL KALOL	GANDHINAGAR	CHLORINE	18 MT
111	BHANSALI ENG.POLIMER LTD P.O. PETROFILS VADODARA-391347 GUJARAT	VADODARA	ACRYLONITRILE  BUTADIENE(1)	62  44
112	BHARAT GLASS TUBE LTD. PLOT NO.9208-9213, GIDC INDL. ESTATE ANKLESHWAR BHARUCH-393 002 GUJARAT	BHARUCH	LPG	19
113	BHARAT PETROLEUM CORPORATION LTD LPG BOTTLING PLANT & TERRITORY OFFICE,SURVEY NO.333,MALIYASAN VILLAGE,MALIYASAN KHIRDI ROAD,RAJKOT-360003	RAJKOT	LPG	300 MT
114	BHARAT PETROLEUM CORP. LTD. P.O. ICHHAPORE HAZIRA SURAT	SURAT	LPG	600 MT
115	BHARAT PETROLEUM CORP.LTD (HAZIRA DEPO) ICHHAPORE,DIST-SURAT	SURAT	MOTOR SPIRIT HSD SKO	4410 KL 2900 KL 2824 KL
116	BHARAT PETROLEUM CORPN. LTD. HARIYALA LPG BOTTLING PLANT NATIONAL HIGHWAY NO.8, HARIYALA KHEDA-387 411 GUJARAT	KHEDA	LPG	1825

117	BHARAT PETROLEUM CORPN. LTD. KARACHIYA P.O. JAWAHARNAGAR BARODA-391 320 GUJARAT	VADODARA	MOTOR SPIRIT	35000
118	BHARAT PETROLEUM CORPN. LTD. VILL. KHARIROHAR GANDHIDHAM KUTCH-370201 GUJARAT	KUTCH	MOTOR SPIRIT	10683
119	BHARAT PETROLEUM CORPORATION LTD. CRUDE OIL TERMINAL, SINGACH CHAR RASTA, SINGACH, JAMNAGAR	JAMNAGAR	CRUDE OIL	411200 MT
120	BHARAT PETROLEUM CORPORATION NH-8,NAVAGAM TERMINAL, VILLAGE-KANERA-387540 GUJARAT	KHEDA	PETROL  HSD SKO ETHANOL	1424 MT 1673 MT 4845 MT 2859 KL 100 KL
121	BHARAT RASAYAN LTD. GIDC, DAHEJ,VAGRA TALUKA, DIST-BHARUCH	BHARUCH	CHLORINE	18
122	BICERO TILES LLP MORBI HALVAD ROAD, AT-CHARADVA, TA-HALVAD, DIST- MORBI	MORBI	PROPANE	16 MT
123	BIG TILES.NO.164/P-1, 165/2-P-1, 165/2 P-2, B/H. VARMORA GRANITO 8-A NATIONAL HIGHWAY, AT: DHUVA.	MORBI	PROPANE / LPG	16.74
124	BIRLA CELLULOSIC BIRLADHAM, KHARACH KOSAMBA (R.S.) BHARUCH-394 120, GUJARAT	BHARUCH	CARBON DISULPHIDE	730
125	BLIZZARD CERAMICA LLP S.R.NO.83 / 1, 83 / 2, 83 / 3, 83 / 4, AT - LUNSAR ROAD, 8- A N.H., VILL.JETPARDA, TAL.WANKANER, DIST.MORBI	MORBI	PROPANE/ LPG	16.74
126	BLUEGRESS PORSELANO LLP SR. NO.- 546 / P 1 / P 2, 547 / P 2, AT.- JETPAR ROAD, VILL:- SAPAR, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
127	BLUEWIN TILE LLP S.R. NO :-141/P4,B/H.FIORENZA GRANITO,OLD MARG, SARTANPAR ROAD, N.H-27 WANKANER, DIST:- MORBI	MORBI	PROPANE / LPG	16.72
128	BLUEZONE TILES LLP S.R.NO.546 / P 2, AT - JETPAR ROAD, VILL. SHAPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.72
129	BLUEZONE VITRIFIED PVT LTD S.R.NO.545, AT - JETPAR ROAD, SAPAR, MORBI	MORBI	PROPANE / LPG	16.74
130	BODAL CHEMICAL LTD. (UNIT 3) PLOT NO. 2102, PHASE III GIDC, VATVA AHMEDABAD-382 445 GUJARAT	AHMEDABAD	ETHYLENE OXIDE	7
131	BODAL CHEMICAL LTD. PLOT.110, PHASE-2, GIDC VATVA AHMEDABAD	AHMEDABAD	ETHYLENE OXIDE	15

132	BODAL CHEMICALS LTD UNIT-7 PLOT NO.804,AT:DUDHWADA, TAL,PADRA,DIST.VADODARA	VADODARA	ETHYLENE OXIDE OLEUM	09 KL 80 KL
133	BODAL CHEMICALS LTD UNIT-8 PLOT NO.106, 108, VILLAGE- EKALBARA, TAL-PADRA, DIST.VADODARA	VADODARA	OLEUM (SO3)	35
134	BODAL CHEMICALS LTD. (UNIT-5) PLOT NO 301 TO 430+433 TO 440/1, GIDC SAYKHA, TA- VAGRA, DIST-BHARUCH	BHARUCH	CHLORINE	311 MT
135	BOFFO GRANITO LLP S.R.NO.170 / 2, AT - 8 - A NATIONAL HIGHWAY, VILL.DHUVA, TAL.WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	16.74
136	BONZA VITRIFIED PVT LTD S.R.NO.192/P2/P1,8-AN.H., MATEL ROAD, MATEL,TAL:WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	49.98
137	BRAVAT GRANITO LLP S.R.NO.216 / P 1, 216 / P 2, 217, AT - MATEL ROAD, 8-A N.H., VILL :- LAKADDHAR, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
138	BRITANNIA INDUSTRIES LTD PLOT NO.2, SECTOR 125, NR. MITAP GATE, APSEZ, MUNDRA, KUTCH	KUTCH	LPG	34 MT
139	BROMO CERAMIC PRIVATE LIMITED SR NO. 140 P2/P1, 140 P2/P2,142/1, 8A NATIONAL HIGHWAY,	MORBI	PROPANE/ LPG	48.58
140	BROSIS LAM PVT LTD SURVEY NO 840 (774/1), VILLAGE-VASNA RATHOD, NR. DEHGAM POWERGRID, TA-DEHGAM, DIST- GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE PHENOL METHANOL	20 MT 20 MT 20 MT
141	BVC SPECIALITIES PVT. LTD. PLOT NO. D3/5/1 & D3/5/2, GIDC ESTATE, DAHEJ-III, SURVEY NO.34, (OLD SURVEY NO. 695), VILLAGE- KADODARA, TAL-VAGRA, DIST-BHARUCH-392130	BHARUCH	FORMALDEHYDE	90 MT
142	C.R.L.TERMINAL PVT. LTD. NEAR OIL JETLY OLD KANDLA KUTCH GUJARAT	KUTCH	ACRYLONITRILE ETHYL ALCOHOL ACETONE BENZENE TOLUENE METHANOL BUTANOL CYDO HAZANAR DI-CHLORO ETHANE ISO-BUTANOL ISO-PROPANAL STYRENE MONOMER	1397 1402 2080 1169 2400 2232 1056 910 15126 846 1229 1850
143	CABB KARNAVATI RASAYAN LTD PLOT NOS.459,460 & 46135 NR.BAJAJ FOODS VILLAGE:CHANGODAR TAL-SANAND	AHMEDABAD	CHLORINE	172.8 MT

144	CADILLAC GRANITO PVT LTD S.R.NO.140 / 2 P 1, 140 / 2 P 2, 140 / 3, B/H 66-KV SUB - STATION, HALWAD ROAD, VILL:- UNCHI MANDAL, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	19.99
145	CALIMARA MATTERS PVT LTD 206, GIDC SARIGAM, TAL-UMARGAM, DIST-VALSAD-396155, GUJARAT	VALSAD	SODIUM CHLORATE	200 MT
146	CAMBAY ORGANICS PVT. LTD. S.N.194/1, SOKHADA TAL. CAMBAY ANAND-388 620 GUJARAT	ANAND	CHLORINE	11
147	CAPRON VITRIFIED PVT LTD S.R.NO.66 P 1, 66 P 2, AT - SARTANPAR ROAD, 8-A N.H., VILL :- RATAVIRDA	MORBI	PROPANE / LPG	16.74
148	CAPSTONE CERAMIC (INDIA) LLP S.R.NO. 272 / 1, 272 / 2 / P2, AT:- GALA-SAPAR ROAD, VILL:- GALA, TAL/DIST:-MORBI	MORBI	PROPANE / LPG	16.74
149	CAPTILE LLP SR. NO.- 63 / P3. 64 / P1. AT.- SARTANPAR ROAD, 8A NATIONAL HIGHWAY, VILL:- RATAVIRDA. TAL:- WANKANER, DIST:- MORBI.	MORBI	PROPANE / LPG	16.74
150	CAPTIVA CERAMIC INDUSTRIES Sr. No. 213 paiki 2, 213 paiki 3, Jetpar Road, At. Bela, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
151	CARAMIA GRANITO LLP NH 8 A, KANDLA ROAD, GALA CHOWKDI, DIST-MORBI	MORBI	PROPANE	42 MT
152	CASVA TILES PVT LTD. S.H. NO.7, AHMEDABAD MALIYA HIGHWAY, ANIYARI CHOKADI, AT-KHAKHRECHI, TA-MALIYA, DIST-MORBI	MORBI	PROPANE	16 MT
153	CEDAR DÉCOR PVT. LTD. PLOT NO 65/P, ANKHOL PATIYA, TA-KADI, DIST-MEHSANA	MEHSANA	FORMALDEHYDE PHENOL METHANOL	40 MT 40 MT 40 MT
154	CEFONE CERAMIC LLP S.R.NO.59 P 2 / P 2, 60 P 2 / P 2, AT - JETPAR ROAD, VILL.PIPLI, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	20
155	CEMA ELECTRIC LIGHTING PRODUCT (INDIA) PVT. LTD. TA-MATAR, DIST-KHEDA	KHEDA	LPG	84 MT
156	CERAVAT CERAMIC SURVEY NO. 108 P1 / P1, SARTANPAR ROAD,	MORBI	PROPANE/ LPG	16.75
157	CERAVAT CERAMIC SURVEY NO. 108 P1 / P1, SARTANPAR ROAD, MORBI	MORBI	PROPANE/ LPG	16.75
158	CHEMCON SPECIALITY CHEMICALS LIMITED PLOT NO. 355, 357, MANJUSAR-KUNPAD ROAD, VILLAGE- MANJUSAR, TAL-SAVLI, DIST-VADODARA-391775	VADODARA	CHLORINE BROMINE	22.5 MT 74.4 MT

159	CHEME ORGANIC CHEMICALS PLOT NO. 758 GIDC ESTATE, JHAGADIA BHARUCH GUJARAT	BHARUCH	CHLORINE	18
160	CHEMPLAST INDUSTRIES S.NO.1067-B, KADI ROAD CHHATRAL KADI ROAD KALOL	GANDHINAGAR	CHLORINE	138
161	CHEMSTAR ORGANICS (INDIA) LTD. 108, GIDC ESTATE DIST. VADODARA NANDESARI-391 340 GUJARAT	VADODARA	CHLORINE	36
162	CHEMTECH INTERMEDIATES 12/14,15 GIDC NANDESARI VADODARA	VADODARA	SODIUM CYNIDE	25
163	CHIRAG ORGANICS PVT. LTD. PLOT NO.902/A IV PHASE, GIDC VAPI VALSAD GUJARAT	VALSAD	CHLORINE	19
164	CHLORI TECH INDUSTRIES PLOT NO. 122/3 GIDC NANDESARI BARODA GUJARAT	VADODARA	CHLORINE	29.7
165	CIBELA CERAMIC PVT.LTD. S.R.NO. 85/1 & 85/2, LUNSAR ROAD, JETPARDA	MORBI	PROPANE / LPG	16.71
166	CLAIRVOYANCE INDUSTRIES PVT.LTD. PLOT NO. D-2/CH-29, VADADLA, GIDC, DAHEJ, DIST- BHARUCH	BHARUCH	ETHYLENE OXIDE  OLEUM	20 MT  50 KL
167	CLAN VITRIFIED PVT LTD S.R.NO.179 / 1, B/H VARMORA VITRIFIED, AT - 8-A N.H., DHUVA	MORBI	PROPANE/ LPG	41.89
168	CLAYROCK GRANITO LLP SR.NO.- 129 P 2, 130 P 1, 130 P 2, 130 P 3, 130 P 4 AT.- 8- A NATIONAL HIGHWAY, VILL.- JAMBUDIYA, TAL.- MORBI, DIST.- MORBI	MORBI	PROPANE / LPG	49.98
169	CLAYROCK GRANITO LLP SR.NO.- 129 P 2, 130 P 1, 130 P 2, 130 P 3, 130 P 4, AT.- 8- A NATIONAL HIGHWAY, VILL.- JAMBUDIYA, TAL.- MORBI, DIST.- MORBI	MORBI	PROPANE / LPG	49.98
170	CLAYSTONE GRANITO PVT LTD S.R.NO.354, AT - JETPAR ROAD, VILL.-RANGPAR,TAL: & DIST:-MORBI	MORBI	PROPANE / LPG	16.74

171	CLP INDIA PVT LTD. PAGUTHAN NARMADA NAGAR P.O. BHARUCH-392 015 GUJARAT	BHARUCH	CHLORINE  NAPHTHA	11  16000
172	COINN TILES LLP SR. NO.- 575 P1, 573, 571 P1, AT.- JETPAR ROAD, VILL: RANGPAR, TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE / LPG	16.74
173	COLOR GRANITO PVT. LTD. SARTANPAR ROAD, 8A NATIONAL HIGHWAY, VILL- SARTANPAR, TA-WANKANER, DIST-MORBI	MORBI	PROPANE	16 MT
174	COLOURTEX INDUSTRIES PVT. LTD. PLOT NO.288/1-2, 289/1-2 8108/2, GIDC, SACHIN SURAT-394 221 GUJARAT	SURAT	ETHYLENE OXIDE	15
175	COLOURTEX INDUSTRIES PVT. LTD. SURVEY NO. 80, PANDESARA GIDC, SURAT-394 221 GUJARAT	SURAT	CHLORINE	16
176	COMET GRANITO PVT LTD. NH NO. 8 A, NEW JHAMBUDIYA, MORBI	MORBI	PROPANE	16.7 MT
177	COMMANDER CERAMIC IND. 8-A NATIONAL HIGHWAY, VILL:- LALPUR, TAL:-MORBI, DIST:-MORBI	MORBI	PROPANE / LPG	16.74
178	COMMANDER VITRIFIED PVT. LTD. 8-A, N.H., AT. SARTANPAR, MORBI	MORBI	PROPANE / LPG	41.89
179	COMMANDO CERAMIC PVT. LTD. S.NO.779/P-1, LAKHADHIRPUR ROAD, AT: GHUNTU, MORBI	MORBI	PROPANE / LPG	<b>16.74</b>
180	CONFIDENCE PETROLEUM INDIA LTD S.R.NO.349 / 1,2, WANKANER KUVADWA ROAD, VILL:- KANKOT, TAL :- WANKNAER, DIST :- MORBI	MORBI	PROPANE / LPG	31914
181	CONOR GRANITO PVT. LTD. SR. NO. 150 P1, NR. ACCORD PLUS, AT-NICHI MANDAL- 363642, TAL & DIST-MORBI	MORBI	LPG	30 MT
182	CORAL GOLD TILES PVT LTD S.NO. 824/P & 825, LAKHDHIRPUR ROAD, 8-A N. H. AT: GHUNTU.	MORBI	PROPANE/ LPG	43.99
183	CORAL GRANITO PVT.LTD. S.R.NO.73/1-P-1/P-1,73/1-P-3,8,9,10,164/6, 8-A,N.H. AT- LALAPAR, DIST:- MORBI	MORBI	PROPANE / LPG	1100
184	CORIAL CERAMIC PVT LTD S.R.NO.191 P 1 / P 1 / P 2, 191 P 4, AT - JETPAR ROAD, VILL. BELA, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
185	COROMANDAL INTERNATIONAL LTD. 2103, GIDC SARIGAM VALSAD	VALSAD	CHLORINE AMMONIA METHANOL	70 40 40

186	COROMANDEL INTERNATIONAL LIMITED PLOT NO. 71/71-A/72/73/74/ 75/83,GIDC, NANDESARI, VADODARA- 391340 GUJARAT	VADODARA	ENDOSULFAN D.D.V.P. PHOSPHAMIDON M.PARATHION CARBENDAZINE ETHION CYCLOHEXONE	70 MT 25 MT 10 MT 02 MT 10 MT 02 MT 08 MT
187	COROMANDEL INTERNATIONAL LIMITED PLOT NO. 103/G, DAHEJ SEZ-II, PO. LAKHIGAM, TA-VAGRA, BHARUCH	BHARUCH	CS2	108 MT
188	COROMANDEL INTERNATIONAL LTD. PLOT NO. 3204, GIDC INDL. ESTATE ANKLESHWAR BHARUCH-383 002 GUJARAT	BHARUCH	PHORATE ACRYLONITRILE	100 45
189	COSINA CERAMIC LLP SR. NO.- 549, AT.- KHOHARA HANUMAN ROAD, 8A NATIONAL HIGHWAY, VILL:- BELA (RANGPAR), TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE / LPG	16.74
190	COVERTEK CERAMICA PVT. LTD. S.R. NO.:-20/P1, 20/P2, 22/1, 22/2,NATIONAL HIGHWAY, SARTANPAR ROAD, MORBI	MORBI	PROPANE / LPG	16.74
191	COVESTRO(INDIA)PVT LTD, PLOT NO-3501 to 3515, 6301- 6313, GIDC-ANKLESHWAR, BHARUCH	BHARUCH	TOLUENE DI ISOCYANATE	250 MT
192	CREVITA GRANITO PVT.LTD. S.R.NO.63-P1,63-P6,66/1,67, 68, 69/1, 69/2, 69/3. 8-A, NATIONAL HIGHWAY, MATEL ROAD,TAL:WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	16.74
193	CROWN CERAMIC JAFALSHWAR ROAD, BEHIND SHIVAM ESTATE, JODHPAR, MORBI	MORBI	PROPANE	39.96 MT
194	CRYSTAL QUINON (UNIT-II) PHASE-II, GIDC, VATVA, AHMEDABAD	AHMEDABAD	ETHYLENE OXIDE	10
195	CYAN GRANITO LLP Sr No. 151 P1 & P3, NICHI MANDAL, MORBI-HALVAD ROAD,DIST :- MORBI	MORBI	PROPANE / LPG	41.89
196	HINDUSTHAN CHEMICALS (CYANIDES & CHEMICALS CO)., OLPAD, DIST-SURAT	SURAT	AMMONIA	120 MT
197	DAI-ICHI KARKARIA LIMITED PLOT NO. D2/20, GIDC DAHEJ-2, TA-VAGRA, DIST- BHARUCH	BHARUCH	ETHYLENE OXIDE	57 MT
198	DECORA LAMINART PVT. LTD. SR. NO. 26, PLOT NO 8, VILLAGE-SHAPAR, KOTDA SANGANI, DIST-RAJKOT	RAJKOT	FORMALDEHYDE PHENOL METHANOL	20 MT 2 MT 14 MT
199	DEEDY CHEMICAL PVT. LTD. 263, A/2A, AKASHGANGA IND. ESTATE SANAND AHMEDABAD	AHMEDABAD	CHLORINE	27 MT
200	DEEDY CHEMICALS PVT. LTD. S. NO. 69 & 71, PAIKI, B/H RAVI ESTATE, NR. GAYATRI DAIRY, AT-DHANOT, TAL-KALOL, DIST-GANDHINAGAR	GANDHINAGAR	CHLORINE ACETIC ACID THIONYL CHLORIDE SULPHUR SULPHUR MONO CHLORIDE	47.7 MT 30 MT 17 MT 50 MT 5 MT

201	DEEP DARSHAN CHEMICAL LLP 48/2 GIDC ESTATE NANDESARI, BARODA GUJARAT	VADODARA	CHLORINE	23
202	DEEPAK FERTILIZERS & PETROCHEMICALS CORPORATION LTD. PLOT NO. DII/7A, GIDC DAHEJ, VILLAGE-RAHIYAD, TA-VAGRA, DIST-BHARUCH	BHARUCH	LIQUID AMMONIA	900 MT
203	DEEPAK NITRITE LTD. 4/R, GIDC NANDESARI VADODARA GUJARAT	VADODARA	AMMONIA CHLORINE SO2	94 65 47
204	DEEPAK PHENOLICS LIMITED SYNTHETIC ORGANIC CHEMICAL UNIT 12/B/1, GIDC, DAHEJ, TAL-VAGRA, DIST-BHARUCH	BHARUCH	PROPYLENE PROPANE GAS ACETONE BENZENE CUMENE IPA PHENOL	8586 MT 2875 MT 6158 MT 8042 MT 6927 MT 2412 MT 8552 MT
205	DELTA CERAMIC S.R.NO.109 P 1, AT - OLD RAFALESHWAR ROAD,VILL :- LALPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
206	DEMOSHA CHEMICALS LTD. 82, GIDC, INDUSTRIAL AREA POST-GUNDLAV BALSAD-396035 GUJARAT	VALSAD	OLEUM(SULPHAR TRIOXIDE)	85
207	DEV SALT PVT LTD. NH 8A, VILL-HARIPAR, TA-MALIYA-MIYANA. DIST-MORBI	MORBI	BROMINE CHLORINE HCL NAOH	45 MT 28.8 MT 75 MT 30 MT
208	DHANVEEN PIGMENTS PVT LTD PLOT NO. 3105 TO 3107, PHASE-III, NEAR GARUDA COTEX, GIDC, PANOLI-394116	BHARUCH	CHLORINE	51.3
209	DHARTI ENTERPRISE PLOT NO DII/CH-326, GIDC, DAHEJ-2, TA-VAGRA, DIST-BHARUCH	BHARUCH	ETHYLENE OXIDE	7 MT
210	DMCC SPECIALITY CHEMICAL LIMITED PLOT NO CH-5/1, DAHEJ INDUSTRIAL ESTATE, GIDC, PHASE-I , DAHEJ, DIST-BHARUCH	BHARUCH	OLEUM CSA	150 MT 150 MT
211	DORF KETAL SPECIALITY CATALYSTS PVT.LTD. PLOT-2, CLUSTER-F, SECTOR-12N, MUNDRA, ADANI PORTS AND SEZ LTD, KUTCH	KUTCH	AMMONIA HEPTANE BUTANOL ETHANOL (ALCOHOL) IPA	90 MT 100 MT 81 MT 39 MT 200 MT
212	DURACON VITRIFIED PVT. LTD. SURVEY NO. 128/1P-1, N.H. NO. 8A,	MORBI	PROPANE/ LPG	43.99
213	DYNA GLYCOLS PVT. LTD. PLOT NO. 268/B, SECTOR-4, KASEZ, GANDHIDHAM, KUTCH	KUTCH	ETHYLENE OXIDE PROPYLENE OXIDE	30 20
214	EDDICA CERAMICS LLP. S.R.NO. 329 P1 & 329 P2, JETPAR ROAD, RANGPAR	MORBI	PROPANE / LPG	16.74

215	ELICA VITRIFIED PVT LTD S.R.NO.779 / P-1-2-3, VILL. GHUNTU,TAL.&DIST.MORBI	MORBI	PROPANE / LPG	19.99
216	EMBITO GRANITO LLP S.R.NO.86 P 2, 86 P 3, AT - SARTANPAR ROAD, 8 - A NATIONAL HIGHWAY, VILL.SARTANPAR, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	41.89
217	EMBOZA GRANITO PVT LTD S.R.NO.239/1 P5/P1, 241 & 242 P3/P1, AT - SARTANPAR ROAD, 8-A N.H., MATEL	MORBI	PROPANE/ LPG	16.74
218	EMCER TILES PVT LTD S.R.NO.117 P 1, 117 P 2 & 117 P 3, AT - SARTANPAR ROAD, 8-A NATIONAL HIGHWAY, VILL. SARTANPAR, TAL. WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	16.74
219	ENCORE NATURAL POLYMERS LTD. NARODA AHMEDABAD GUJARAT	AHMEDABAD	ETHYLENE OXIDE	25
220	ERACON VITRIFIED PVT LTD. 8-A, NATIONAL HIGHWAY, MATEL ROAD, TAL- WANKANER, DIST-MORBI	MORBI	LPG	43 MT
221	ESSAR POWER LTD. HAZIRA SURAT-394 270 GUJARAT	SURAT	VERY HIGHLY FLAMMABLE LIQUIDS	34500
222	ARCELOR MITTAL NIPPON STEEL (ESSAR STEEL LTD.) (HRC DIVISION), 27 KM HAZIRA-SURAT ROAD, HAZIRA, SURAT- 394270	SURAT	HYDROGEN	40.5 MT
223	EVEREST KANTO CYLINDERS LTD. PLOT NO. 525 TO 542, 618, 627 & 628, KASEZ, GANDHIDHAM, DIST-KUTCH	KUTCH	LPG LIQUID OXYGEN	60 20 KL
224	EXCEL FORMULATIONS PLOT NO-32, SONAL INDUSTRIAL ESTATE, KHODA VILLAGE ROAD, SANAND, AHMEDABAD	AHMEDABAD	ETHYLENE OXIDE	11
225	EXOTICA CERAMIC PVT. LTD. Morbi-Jetpar Road, At-Bela,,MORBI	MORBI	PROPANE/ LPG	16.74
226	EXPANDED POLYMER SYSTEMS PVT. LTD. PLOT NO. CH-10, GIDC, DAHEJ, TA-VAGRA, DIST- BHARUCH	BHARUCH	ETHYLENE OXIDE PROPYLENE OXIDE	15 MT 100 MT
227	FAME CERAMIC PVT LTD B/H GSPL GAS TERMINAL,OFF-8-A.N.H,VILL-GHUNTU.	MORBI	PROPANE / LPG	16.74
228	FAMOUS VITRIFIED PVT. LTD. S.NO.83, SARTANPAR ROAD, 8-A, N.H, VILL:- SARTANPAR, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
229	FAMSON CHEMICALS SURVEY NO. 1143 RAJPUR, TA-KADI	MEHSANA	CHLORINE	16 MT
230	FARMSON PHARMACEUTICAL GUJARAT PVT. LTD. (UNIT- II) PLOT NO. 14, GIDC, NANDESARI INDUSTRIAL ESTATE, VADODARA-391340	VADODARA	CHLORINE	16 MT

231	FASTEN LAMINATE 8-A, NATIONAL HIGHWAY, SHOKHDA ROAD, VAGHPAR, MORBI-363630	MORBI	PHENOL FORMALDEHYDE METHANOL	20 MT 30 MT 30 MT
232	FAVOURITE PLUS CERAMIC PVT. LTD. 8-A, NATIONAL HIGHWAY, SARTANPAR,TAL:WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	16.74
233	FEEDCHEM (INDIA) PVT. LTD. S.R.NO.237 & 256, PLOT NO. 28 TO 38, GOKUL INDUSTRIAL, PIPLANA, TA-KOTDASANGANI, DIST-RAJKOT	RAJKOT	FORMALDEHYDE METHANOL PHENOL	12 MT 15 MT 25 MT
234	FEEDCHEM INDUSTRIES KOTHARIYA, SR. NO. 165, B/H VARUN CASTING, OPP. SWATI HIGHRISE, 80 FEET ROAD, AT-POST-KOTHARIYA, DIST-RAJKOT	RAJKOT	FORMALDEHYDE METHANOL PHENOL	12 MT 25 MT 20 MT
235	FINORCHEM LIMITED 24/1, GIDC-PANOLI, ANKLESHWAR, BHARUCH	BHARUCH	CS2	120 KL
236	FINSTONE GRANITO PVT. LTD. AT-GALA CHOWKDI, 8-A NATIONAL HIGHWAY, MORBI- 363642	MORBI	PROPANE	16.75 MT
237	FIORENZA GRANITO PVT. LTD. S.R.NO.139 P-1 - P-1, 139 P-2, 139 P-3, AT - SARTANPAR ROAD, 8-A N.H., at:-RATAVIRDA, MORBI	MORBI	PROPANE/ LPG	68
238	FIORENZA GRANITO PVT. LTD. S.R.NO.139 P-1 - P-1, 139 P-2, 139P-3,AT- SARTANPARROAD, 8-AN.H.,at:- RATAVIRDA,TAL:WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	60.32
239	FLOREX CERAMIC PRIVATE LIMITED Survey No. 122/2, paik 3, 8-National Highway, At- Makansar	MORBI	PROPANE / LPG	16.74
240	FRIENDS OIL & CHEMICAL TERMINAL PVT. LTD. K.K. ROAD DIST. KUTCH KANDLA-370 220 GUJARAT	KUTCH	CLASS A FLAMMABLE LIQUIDS	387000
241	FRIENDS SALT WORKS AND ALLIED INDUSTRIES KANDLA KHARIROHAR ROAD KANDLA KUTCH GUJARAT	KUTCH	FLAMMABLE CHEMICALS	76777
242	FRITA CERAMIC PVT.LTD. SR. NO.- 406 / 1P1, ON. 8 - A NATIONALHIGHWAY.AT.JETPAR ROAD, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
243	FUSION GRANITO PVT LTD S.R.NO.555 P 1 / P 1, KHOKHARA ROAD, JETPAR ROAD, VILL :- BELA ( RANGPAR ), TAL :- & DIST :- MORBI	MORBI	PROPANE/ LPG	16.75
244	FUTURE CERAMIC PRIVATE LIMITED Behind Harikrupa Papers LLP,SERVEY NO.-84P1, 84P2, 85/1, 85/2P1, 85/2P2,8-A National Highway, Morbi, Morbi, Gujarat, 363642	MORBI	PROPANE / LPG	48.58

245	G C GRANITO LLP S.NO. 558 P1, 558 P2 558/2, OLD GHUTU ROAD MORBI	MORBI	PROPANE / LPG	49.98
246	GAIL (INDIA) LTD, LPG RECOVERY PROJECT VILL. ROZA TANKARIA BHARUCH GUJARAT	BHARUCH	LPG	250
247	GAJANAN ORGANICS LLP SR. NO. 292/5 P1, 292/6 P1, 292/7 P1, 292/8 P1, AT- TANKARA LATIPAR ROAD	MORBI	Chlorine	21.6 TON
248	GALAXY SURFACTANT LTD. PLOT NO. 892, JHAGADIA INDUSTRIAL ESTATE, BHARUCH	BHARUCH	ETHYLENE OXIDE	50 MT
249	GANDHAR PETROCHEMICALS LTD UNIT-2 PLOT NO. 125/2, GIDC NANDESARI, VADODARA-391340 GUJARAT	VADODARA	ETHYLENE OXIDE	15
250	GANESH LPG BOTTLING PLANT, PLOT NO-19, GIDC- PANOLI, DIST-BHARUCH	BHARUCH	LPG	100
251	GAS AUTHORITY OF INDIA LTD. (GAIL INDIA LTD.) G.I.D.C. VAGHODIA, DIST. VADODARA GUJARAT	VADODARA	LPG	450
252	GEMSTONE CERAMIC LLP S.R.NO.539 / P - 1, KHOKHRA HANUMAN TEMPLE ROAD, VILL.BELA, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
253	GLOMET TECH PVT. LTD. PLOT NO. Z/22, SEZ, DAHEJ	BHARUCH	CHLORINE	18
254	GNFC D-2/8, GIDC, PHASE-II, DAHEJ, P.O. RAHIYAD, TA-VAGRA, DIST-BHARUCH	BHARUCH	CHLORINE Toluene di-isocyanate (TDI)	790 4140
255	GOPINATH CHEM TECH LTD. 470, KUNDAL, NR. BHOLENATH SAW MILL, KADI, DIST- MEHSANA	MEHSANA	OLEUM 23% OLEUM 65% SULPHURIC ACID 98% ACETIC ANHYDRIDE	27 MT 23 MT 36 MT 11 MT
256	GRAFFITI LAMINATES PVT LTD. NH 27/A, MORBI-KANDLA HIGHWAY, HARIPAR-KERALA ROAD, NR. BHARATNAGAR, DIST-MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	35 MT 15 MT 25 MT
257	GRANOLAND TILES LLP S.R.NO.232, 233 P 1 & 233 P 2, AT - SARTANPAR ROAD, 8- A N.H., MATEL	MORBI	PROPANE / LPG	30.16
258	GRASIM INDUSTRIES LTD PLOT NO. 1, GIDC, VILAYAT, TALUKA-VAGRA, DIST-BHARUCH	BHARUCH	CHLORINE CARBON DISULPHIDE	1340 MT 3405 MT
259	GREE TILES LLP S.R.NO.462 P 1, 463, AT - JETPAR ROAD, VILL. SAPAR, TAL. & DIST.MORBI	MORBI	PROPANE/ LPG	40
260	GREENDLY GASES & PETRO CHEMICALS PVT. LTD. MOBHA PADRA, BARODA BARODA GUJARAT	VADODARA	LPG	20

261	GREENOVATE ORGANICS PVT. LTD. BLOCK NO. 231, EKALBARA, TA-PADRA, DIST-VADODARA-391440	VADODARA	CHLORINE	18.9
262	GREENSEA INDUSTRIES PVT. LTD. SURVEY NO. 71/2, VILLAGE-SHIKARPUR, TA-BHACHAU, DIST-KUTCHH	KUTCH	CHLORINE	27 MT
263	GREENSTONE GRANITO PVT LTD S.R.NO.252 / 1 P 5, AT - MATEL ROAD, 8-A N.H., VILL.LAKADDHAR, TAL. WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	41.89
264	GRESART CERAMICA PRIVATE LIMITED S.R. NO :-341P1/P1,341P1/P2,341P2,341P3, B/H HARIKRUPA PAPER MILL, KANDLA HIGHWAY ROAD, 8-A , NATIONAL HIGHWAY,	MORBI	PROPANE/ LPG	48.59
265	GRIS CERAMIC LLP S.R.NO. 578 P1, P1, JETPAR ROAD,RANGPAR,TAL:-&DIST:-MORBI	MORBI	PROPANE / LPG	100
266	GRYPHON CERAMICS PVT LTD S.R. NO.830 / P 1, 831/ P 1, 834 / P 1, 834 / P 3, 834 / P 4, NEAR MAIN NARMADA CANAL, AT - LAKHDIRPUR ROAD, VILL.GHUNTU, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	19.99
267	GSP CROP-SCIENCE PVT LTD PLOT-1, UNIT-3, GIDC NANDESARI, DIST-VADODARA	VADODARA	ACRYLONITRILE	42
268	GSPC LNG LTD SOUTH PORT, NAVINAL ISLAND, MUNDRA, KUTCH	KUTCH	LNG	1,60,000 MT
269	GUJARAT AGRO PESTICIDE CHEMICAL FORMULATION PLANT, NATIONAL HIGHWAY GONDAL, RAJKOT GUJARAT	RAJKOT	PARATHION-METHYL	8.08
270	GUJARAT ALKALIES & CHEMICALS LTD. P.O. PETROCHEMICALS, JAWAHAR NAGAR VADODARA-391346	VADODARA	CHLORINE	350.5
271	GUJARAT ALKALIES & CHEMICALS LTD. VAGRA BHARUCH-392 130 GUJARAT	BHARUCH	CHLORINE	1290 MT
272	GUJARAT BOROSIL LTD. ANKLESHWAR RAJPIPLA ROAD GOVALI, TAL. JHAGADIA BHARUCH GUJARAT	BHARUCH	LPG	58
273	GUJARAT CHEMICAL PORT TERMINAL COMPANY LTD. P.O. LAKHIGAM, DAHEJ VAGRA BHARUCH	BHARUCH	NEPHTHA BENZONE STYRENE BUTADINE PROPANE	66262 7740 10504 2961 26285
274	GUJARAT DYESTUFF INDUSTRIES 158, GIDC NANDESARI, VADODARA GUJARAT	VADODARA	ETHYLENE OXIDE	15

275	GUJARAT FLUORO CHEMICALS LIMITED SURVEY NO.16/3, 26/27 RANJITNAGAR DEVGADHBARIA, PANCHMAHAL GUJARAT	PANCHMAHAL	OLEUM (SO3) HYDROGEN FLUORIDE	100	150
276	GUJARAT FLUORO CHEMICALS LTD. 12/A,GIDC,DAHEJ,TA-VAGRA GUJARAT	BHARUCH	CHLORINE	315 MT	
277	GUJARAT GUARDIAN LTD. VILLAGE KONDH TAL: VALIA BHARUCH GUJARAT	BHARUCH	LPG	160	
278	GUJARAT HALOGEN PETROLEUM CORPN. S.N. 293, LUNET TAL. CAMBAY ANAND-388 620 GUJARAT	ANAND	CHLORINE	14	
279	GUJARAT INDUSTRIAL CHEMICAL CORPN. S.N. 194/1 SOKHADE TAL. CAMBAY ANAND-388 620	ANAND	CHLORINE	23	
280	GUJARAT INSECTICIDES LTD. 805/806, GIDC ANKLESHWAR, BHARUCH-393002 GUJARAT	BHARUCH	CHLORINE  BROMINE EDC	43  30 50	
281	GUJARAT NARMADA VALLEY FERTILISERS CO. LTD. P.O. NARMADANAGAR BHARUCH-392015 GUJARAT	BHARUCH	AMMONIA CHLORINE LPG METHANOL	20000 27 45 2692	
282	GUJARAT PESTICHEM INDUSTRIES C-1/111, GIDC, NANDESARI VADODARA-391340 GUJARAT	VADODARA	PARATHION-METHYL	0.25	
283	GUJARAT POLYSOL CHEMICAL PVT. LTD. PLOT NO. 1734, 3RD PHASE, GIDC VAPI, DIST-VALSAD	VALSAD	FORMALDEHYDE OLEUM SULPHURIC ACID PHENOL	20 MT 20 MT 40 MT 20 MT	
284	GUJARAT REFINERY (INDIAN OIL CORPORATION LTD.) REFINERIES DIVISION P.O. JAWAHAR NAGAR VADODARA-391320 GUJARAT	VADODARA	LPG NAPHTHA GASOLENE BENZENE TOLUENE	6022 78480 47432 7060 2884	
285	GUJARAT STATE ELECTRICITY CORPORATION LIMITED UKAI THERMAL POWER STATION UKAI, SONGADH, DIST-TAPI-394680	TAPI	CHLORINE GAS	32 MT	
286	GUJARAT STATE ELECTRICITY CORPORATION LTD. 800 MG POWER PLANT VILLAGE-KUNI & SANGOL, TA-THASRA, DIST-KHEDA	KHEDA	CHLORINE	54 MT	

287	GUJARAT STATE ENERGY GENERATION LTD. OPP. L& T, GATE NO. 3, ADAJAN HAZIRA ROAD, HAZIRA, SURAT	SURAT	METHANE HCl H <sub>2</sub> SO <sub>4</sub> HYDROGEN GAS CHLORINE AMMONIA HYDRAZINE	39199000 KG 1725 KG 29820 KG 56.63 KG 720 KG 409.5 KG 76.57 KG
288	GUJARAT STATE FERTILISER CO. LTD. SIKKA UNIT, MOTIKHAVADI DIST-JAMNAGAR GUJARAT	JAMNAGAR	AMMONIA	26000
289	GUJARAT STATE FERTILISERS AND CHEMICAL LTD. SIKKA SHORE TERMINAL, MOTI KHAVADI DIST-JAMNAGAR GUJARAT	JAMNAGAR	AMMONIA	30000 MT
290	GUJARAT STATE FERTILISERS CO. LTD. P.O. FERTILISE NAGAR, BAJWA DIST-VADODARA-391750	VADODARA	AMMONIA NAPHTHA OLEUM (SULPHUR TRIOXIDE) BENZENE	11500 5850 506 960
291	GUJARAT WOODLAM PRODUCTS PVT. LTD. BLOCK NO. 232, VILLAGE-KARANJ, TA-MANDAVI, DIST- SURAT	SURAT	FORMALDEHYDE	20 MT
292	GULBRANSEN CHEMICALS PVT. LTD. COSTAL HIGHWAY MUJPUR, TAL. PADRA VADODARA GUJARAT	VADODARA	CHLORINE	60
293	GURUNANAK CHEMICALS LAMDAPURA ROAD MANJUSAR VADODARA	VADODARA	CHLORINE	59
294	HARI ORGO PVT.LTD BLOCK NO.579, AT & POST MANJUSAR, TA-SAVLI ( <b>Previously Dharnidhar pvt ltd</b> )	VADODARA	CHLORINE	18.9 MT
295	HARI ORGOCHEM PVT. LTD. A/2/237-238 GIDC NANDESARI, BARODA GUJARAT	VADODARA	CHLORINE	18
296	HARISUN CERAMIC PVT. LTD. SR.NO.446/P3/P2 (SAPAR) & 447/P1 (JUSMATGADH) OPP.KAJARIAYA SANITARY WARES, VILLAGE- JASMATGADH & HAPAR, MORBI	MORBI	PROPANE	39.96 MT
297	HAWK GRANITO PVT LTD S.R.NO.170 P 1, AT - 8-A NATIONAL HIGHWAY VILL.VAGHASIYA, TAL.WANKANER, DIST.MORBI	MORBI	PROPANE/ LPG	16.75

298	HAZIRA-LNG PRIVATE LTD. TERMINAL SITE,VIA-SURAT, HAZIRA 394270	SURAT	LNG (GR-5, FLAMMABLE GASES) DIESEL (GR-5, FLAMMABLE LIQUIDS)	112140 M3 1085 TON
299	HEALTH SCIENCE PHARMA CHEMICALS INDUSTRIES LLP PLOT NO. 2812, GIDC, SARIGAM, TA-UMARGAM, DIST- VALSAD	VALSAD	CHLORINE	10 MT
300	HEELCERA TILES PVT. LTD., Suvery No. 805/1/2, At Ghuntu,morbi	MORBI	PROPANE/ LPG	16.75
301	HEMANI INDUSTRIES LTD. (UNIT-III) PLOT NO. CH-5, GIDC ESTATE, DAHEJ, TAL-VAGRA, DIST- BHARUCH	BHARUCH	CHLORINE BROMINE THIONYL CHLORIDE N-HEXANE TOLUNE SODIUM CYNAIDE ISO BUTYLENE	37 MT 15 MT 26 MT 39 KL 23 KL 53 MT 17 MT
302	HEMANI INDUSTRIES LTD. PLOT NO. 3208, GIDC ANKLESHWAR BHARUCH	BHARUCH	CHLORINE	21.6 MT
303	HERANBA INDUSTRIES LTD plot no. 1504/1505/1506, GIDC-vapi, phase-3	VALSAD	Acrylonitrile	30 kl
304	HERO MOTOCORP LIMITED PLOT NO 102, VADODARA GODHARA HIGHWAY, HALOL, AT-NAVARIA, TA-HALOL, DIST-PANCHMAHAL	PANCHMAHAL	PROPANE	24 MT
305	HEUBACK COLOR LTD. PLOT NO.9003 TO 9010, GIDC INDL. ESTATE PH. VI ANKLESHWAR, BHARUCH BHARUCH-393 002 GUJARAT	BHARUCH	CHLORINE	105 MT
306	HEXONE INTERCHEM PVT. LTD. OPP. KATWAD PATIYA, N.H. SABARKANTHA GUJARAT	SABARKANTHA	ETHYLENE OXIDE	7
307	HIGHBORNE LAMINATE PVT LTD. 326 P1, N.H. 27, RAVAPAR NADI, MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	22 MT 40 MT 21 MT
308	HIKAL LTD. 629/630, GIDC PANOLI BHARUCH	BHARUCH	ETHION CHLORINE BROMINE	140 MT 9 MT 25 MT
309	HINDALCO IND. LTD. UNIT: BIRLA COPPER, P.O. DEHEJ LAKHIGAM, DIST. BHARUCH BHARUCH-392 130 GUJARAT	BHARUCH	PROPANE NEPHTHA	292 440

310	HINDUSTAN PETROLEUM CO. LTD. (HPCL) ICCHAPORE CHORYASI SURAT	SURAT	PETROL  NEPHTHA	2070 KL 20070 KL
311	HINDUSTAN PETROLEUM CORPN. LTD. PILUDRA, NR. ONGC CTF UNIT ANKLESHWAR BHARUCH-393 020 GUJARAT	BHARUCH	LPG	777
312	HINDUSTAN PETROLEUM CORPN. LTD. VILL. KHANIROHAR, P.B. NO. 43 P.O. GANDHIDHAM, KUTCH-370201 GUJARAT	KUTCH	MOTOR SPIRIT	100000
313	HINDUSTAN PETROLEUM CORPO LTD MUNDRA DISPATCH TERMINAL OLD MUNDRA PORT ROAD MUNDRA	KUTCH	PETROLEUM PRODUCTS CLASS-A	100000
314	HINDUSTAN PETROLEUM CORPORATION LIMITED VILLAGE-ASOJ PILOL, GIDC, MANJUSAR, VADODARA	VADODARA	MOTOR SPIRIT HSD KEROSENE	13000 MT 14000 MT 1200 MT
315	HINDUSTAN PETROLEUM CORPORATION LTD. (BOTTOLING PLANT) , ONGC ROAD, ICCHAPORE, SURAT	SURAT	LPG	600 MT
316	HMPL-HINDUSTAN MITTAL PIPELINES LTD. , MUNDRA PORT, MUNDRA- KUTCH	KUTCH	CRUDE OIL (PETROLEUM)	11760 KL
317	HNG FLOAT GLASS LTD. HALOL GIDC, PHASE-III, VILLAGE KANJARI, HALOL-389351 PANCHAMAHAL	PANCHMAHAL	LPG	20
318	HOLZWOOD INDUSTRIES PVT. LTD. SURVEY NO. 1763, VADASMA, DIST-MEHSANA-382705	MEHSANA	FORMALDEHYDE METHANOL PHENOL	40 MT 50 MT 50 MT
319	HPCL LPG BOTTLING PLANT SONIPUR ROAD, VILLAGE SARADHAV DIST. GANDHINAGAR GUJARAT	GANDHINAGAR	LPG	650
320	HPCL POL TERMINAL O& M BY IOT INFRASTRUCTURE & ENERGY SERVICES LTD. GIDC MOTA ROAD, CHANDISAR, PALANPUR, DIST- BANASKANTHA	BANASKANTHA	MS HSD SKO ETHANOL	22000 MT 21800 MT 3000 MT 140 MT
321	HPCL SHAPOORJI ENERGY PVT. LTD. SURVEY NO. 866-867, VILLAGE-CHHARA, TAL-KODINAR, DIST-GIR SOMNATH-362720	GIR SOMNATH	LPG DIESEL	47 MT
322	I. M. C. LTD (GAS) PLOT NO.44, OLD KANDLA KUTCH GUJARAT	KUTCH	BUTADIENE (1)	1031

323	I. M.C. LTD (LIQUID) UNIT-2 (LIQUID TERMINAL) BEHIND IOC FORESHORE TERMINAL KANDLA KUTCH	KUTCH	FLAMMABLE CHEMICALS	300000 15000 15000
324	I.O.C. LTD. MARKETING DIVISION SIDHPUR PATAN	PATAN	SKO HSD MS	48000 kl
325	I.O.C. TALUKA VIRAMGAM AHMEDABAD	AHMEDABAD	PETROLEUM PRODUCTS CLASS-A	515739
326	IBIS SMART MARBLE PVT.LTD Sr No-1067/1 P1, P2 , P3 , P4 , P6 , P6 P1, Halvad Road, At-Ghuntu, Morbi-363642	MORBI	PROPANE / LPG	49.98
327	ICERA TILES LLP SR NO. 221, 223, MATEL ROAD, 8A NATIONAL HIGHWAY,	MORBI	PROPANE / LPG	49.98
328	ICOLUX PORCELANO LLP SURVEY NO 161 P1 P7 P8 OPP KHOKHRA HANUMAN MANDIR ROAD AT KERALA TA MORBI DI MORBI 363642	MORBI	PROPANE / LPG	41.89
329	ICON GRANITO PVT. LTD. S.R.NO.14 P, 41, 42, 43, 46 / P 1, 8 P, OLD GHUNTU ROAD, VILL.MAHENDRANAGAR, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	80
330	IFGL EXPORT LTD, PLOT NO-638-644, NEW AREA KSEZ, KANDLA	KUTCH	LPG	19
331	IMC LTD. INSIDE APM TERMINAL, GUJARAT PIPAVAV PORT, VILLAGE-UCCHAIYA, TA- RAJULA, DIST-AMRELI	AMRELI	CLASS A CLASS B FLAMMABLE CHEMICALS	81027 KL
332	IMLIS CERAMIC LLP SR.NO-173/1,174 SARTANPAR ROAD AT-RATAVIRDA TA- WANKANER DIST-MORBI	MORBI	PROPANE/ LPG	41.89
333	IMPRO INTERCHEM PVT. LTD. PLOT NO.414, GIDC PANOLI, BHARUCH BHARUCH-393 116 GUJARAT	BHARUCH	ETHYLENE OXIDE	7
334	INDESIGN CERAMICS LLP S.R.NO.163 / P 1, 161, OPP.RAMOJI GRANITO PVT LTD, NEAR QBO CERAMIC, 8-A NATIONAL HIGHWAY, VILL.LAKADDHAR, TAL. WANKANER, DIST. MORBI	MORBI	PROPANE/ LPG	49.98
335	INDIAN FARMERS FERTILISER CO-OP. LTD. KANDLA KUTCH-370220 GUJARAT	KUTCH	AMMONIA	13000
336	INDIAN FARMERS FERTILISER CO-OP. LTD. P.O. KASTURNAGAR (KALOL UNIT) DIST. GANDHINAGAR-382423 GUJARAT	GANDHINAGAR	AMMONIA	25000

337	INDIAN OIL CORP. LTD. TAGADI GHOGHA BHAVNAGAR	BHAVNAGAR	LPG	1850 MT
338	INDIAN OIL CORP.LTD., MARKETING DIVISION, NH-08, VILL-BAREJA, TALUKA-DASKROI, AHMEDABAD-382425	AHMEDABAD	PETROLEUM PRODUCTS CLASS-A/B	19000 MT 60000 MT
339	INDIAN OIL CORP.LTD., SALAYA MATHURA PIPELINE, VADINAR , DEVBHUMI DWARKA	DEVBHUMI DWARKA	CRUDE OIL HSD	1330945 MT 68 MT
340	INDIAN OIL CORPN. LTD. (MARKETING DIVN.), LPG BOTTLING PLANT SANAND-VIRAMGAM, AHMEDABAD SANAND-382 110 GUJARAT	AHMEDABAD	LPG	4400
341	INDIAN OIL CORPN. LTD. FORESHORE TERMINAL,NR. KPT BOOSTER KANDLA, KUTCH GUJARAT	KUTCH	NAPHTHA MOTOR SPIRIT HSD ATF	90000 123000 160000 69000
342	INDIAN OIL CORPN. LTD. JAMNAGAR ROAD RAJKOT-360006 GUJARAT	RAJKOT	MOTOR SPIRIT	27000
343	INDIAN OIL CORPN. LTD. LPG BOTTLING PLANT, NAVAGAM RAJKOT GUJARAT	RAJKOT	LPG	1000
344	INDIAN OIL CORPN. LTD. LPG BOTTLING PLANT, P.O. ONGC BHATPORE DIST. SURAT GUJARAT	SURAT	LPG	9000
345	INDIAN OIL CORPN. LTD. LPG IMPORT PLANT K.K. ROAD, KUTCH OLD KANDLA GUJARAT	KUTCH	PROPANE BUTANE	15000 15000
346	INDIAN OIL CORPN. LTD. POST ICHHAPORE SURAT-394 510 GUJARAT	SURAT	VERY HIGHLY FLAMMABLE LIQUIDS	28929
347	INDIAN OIL CORPN. LTD. VILLAGE ROJATANKARIA DIST. BHARUCH AMOD-392 410 GUJARAT	BHARUCH	LPG	2000 MT
348	INDIAN OIL CORPORATION LIMITED (MARKETING DIVISION), LPG TERMINAL, VADODARA-SAVLI ROAD, VILL- DUMAD, DIST-VADODARA	VADODARA	LPG	7200

349	INDIAN STEEL CORPORATION NEAR BHIMASAR CROSSING, GANDHIDHAM, TA-ANJAR, KUTCH	KUTCH	LPG	20
350	INDO AMINES LTD PLOT NO. 1723, AT-TUNDLAV, TAL-SAVLI, DIST- VADODARA	VADODARA	EO AMMONIA METHYL CHLORIDE HYDROGEN GAS	39.98 MT 36.00 MT 12.00 MT 300 NOS.
351	INDO BAIJIN CHEMICALS PVT LTD. PLOT NO.-Z-7/1, DAHEJ SEZ LTD, TAL-VAGRA, DIST. BHARUCH	BHARUCH	CARBON DI SULFIDE	6270 MT
352	INDO NIPPON CHEMICAL CORPORATION LTD. PLOT NO.2, K.K. ROAD, OLD KANDLA KUTCH GUJARAT	KUTCH	HEPTANE	5060
353	INDOFIL CHEMICALS COMPANY, PLOT NO-Z-7-1 & Z-8, SEZ DAHEJ ROAD, TAL-VAGRA, BHARUCH	BHARUCH	CS2	125 MT
354	INDORAMA VENTURES OXIDES ANKLESHWAR PVT LTD PLOT NO. 321, G.I.D.C., PANOLI TAL-ANKLESHWAR, DIST. BHARUCH-394116 GUJARAT	BHARUCH	ETHYLENE OXIDE	30
355	INDUSTRIAL SOLVENTS & CHEMICALS LTD. PLOT NOS. 7906,70,7909 GIDC, ANKLESHWAR BHARUCH GUJARAT	BHARUCH	SULPHAR TRIOXIDE	45 MT
356	INOX AIR PRODUCTS PVT. LTD. AIR SEPRATION UNIT, PREMISES OF ESSAR STEEL INDIA LTD. 27 KM, SURAT HAZIRA ROAD, SURAT	SURAT	LIQUID OXYGEN	1695 MT
357	INOX AIR PRODUCTS PVT. LTD. VEMARDI ROAD, VILLAGE-JUNI JITHADI, TA-KARJAN, DIST- VADODARA	VADODARA	LIQ. OXYGEN	623 MT
358	INTILE CERAMIKA SURVEY NO. HARIPAR 18 P1 P1, RANGPAR 553P1, 553 P2, JETPAR ROAD, HARIPAR AND RANGPAR	MORBI	PROPANE / LPG	49.98
359	ION EXCHANGE (INDIA) LTD. PLOT NO.5811-12-13, GIDC ESTATE ANKLESHWAR BHARUCH-393 001 GUJARAT	BHARUCH	OLEUM(SULPHAR TRIOXIDE)	168 MT
360	INDIAN OIL ADANI VENTURE LT. (IOT INFRASTRUCTURE PVT. LTD.) VILL-DUMAD BARODA-SAVLI ROAD, SAVLI, VADODARA	VADODARA	MOTOR SPIRIT H.S. DIESEL KEROSENE	8.8 42750 KL 18800
361	ISCON CERAMIC PVT.LTD. SR.NO.70,71., 8-A, NATIONAL HIGHWAY, VILL- JAMBUDIYA.	MORBI	PROPANE/ LPG	19.91
362	ITA LAKE CERAMIC PVT LTD S.R.NO.251 P 1, 252, B / H BAHUCHAR WAY BRIDGE, JETPAR ROAD, VILL.BELA, TAL. & DIST.MORBI	MORBI	PROPANE / LPG	48.58

363	ITACA CERAMIC PVT. LTD. AT-8A NATIONAL HIGHWAY, VIL-LALPAR, TA-MORBI, DIST-MORBI	MORBI	PROPANE	16 MT
364	ITACON GRANITO PVT LTD S.R.NO.345 P 1 P 4, 345 P 2, 345 P 4, AT - JETPAR ROAD, VILL :- RANGPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
365	ITALICA FLOOR TILES PVT LTD S.NO.111/112,MAKANSAR,MORBI.	MORBI	PROPANE/ LPG	16.75
366	ITALICA GRANITO PRIVATE LIMITED S.R.NO.164, AT - MATEL ROAD, 8-A N.H., VILL :- MATEL, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE/ LPG	48.58
367	ITALUS VITRIFIED LLP NICHU MANDAL S.R.NO. 229 / 1 P1, UNCHI MANDAL S.R.NO.77 / 2 / 2 & 77 / 2 / 3, MORBI - HALWAD ROAD, NICHU MANDAL & UNCHI MANDAL	MORBI	PROPANE / LPG	19.99
368	ITCOS GRANITO LLP S.NO. 283/P86, MATEL ROAD, NR. PGVCL SUB STATION, AT-MATEL, TAL-WANKANER, DIST-MORBI-363621	MORBI	PROPANE	16.75 MT
369	ITCOS GRANITO LLP S.R.NO.283 / 1 P 86 / P 1, 286 / 1 P 86 / P 2, AT - MATEL ROAD, 8-A N.H., VILL :- MATEL, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
370	ITILE LLP S.R.NO.256 P 3 / P 2, 256 / P 4, 256 P 5 / P1, 256 P 5 / P 2, AT - JETPAR ROAD, VILL. RANGPAR, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	25.12
371	ITOLI GRANITO LLP S.R.NO.43 / 2 / P 2, 43 / 1, 40 / P 1, AT - SARTANPAR ROAD, VILL :- SARTANPAR, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	41.89
372	IVANTA CERAMICS LLP AT-8A NATIONAL HIGHWAY, VIL-PIPLI, TA-MORBI, DIST- MORBI	MORBI	PROPANE	16 MT
373	IYOTA TILES LLP S.R.NO.82, B / H KRISHNA (HP) PETROL PUMP, 8-A NATIONAL HIGHWAY, VILL.BHAYATI JAMBUDIYA, TAL. WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	16.74
374	J.K. PAPER LTD. (UNIT OF CENTRAL PULP & PAPER MILL) FORT SONGADH SURAT	TAPI	CHLORINE PROPANE	102.6 MT 60 MT
375	J.R. E. TANK TERMINUS PVT. LTD. PLOT NO.3 OLD KANDLA, KUTCH GUJARAT	KUTCH	CLASS A FLAMMABLE LIQUIDS	8112
376	JAY CHEMICALS PLOT NO. 137/138, 2ND PHASE, GIDC, VAPI, DIST-VALSAD	VALSAD	OLEUM 65%	30 MT
377	JAY CHEMICALS INDUSTRIES LTD., 109, PH-II GIDC VATVA, AHMADABAD GUJARAT	AHMEDABAD	ETHYLENE OXIDE	7

378	JAY CHEMICALS LTD. SURVEY NO.756/757, VILLAGE-KALAMSAR TA-KHAMBHAT	ANAND	Ethylene oxide, Oleum 65%, chlorosulphonic acid	30 MT 30 mt
379	JAYSHREE AROMATICS PVT LTD. PLOT NO-4703-4, GIDC ANKLESHWAR, BHARUCH	BHARUCH	CHLORINE	48 MT
380	JINDAL SAW LTD (INTEGRATED PIPE UNIT) PRAGPAR MANDAVI ROAD VILLAGE:SAMAGHOGHA-370415 TAL-MUNDRA	KUTCH	LPG	120 MT
381	JUBELY TILES LLP JETPUR ROAD, VILL-JASMATGADH, TA-DIST-MORBI	MORBI	PROPANE / LPG	16.74 MT
382	JUBILANT INGREVIA LTD. BLOCK NO.133, VILL- SAMLAYA JAROD ROAD, VADODARA SAVLI-391 520	VADODARA	ETHYLENE OXIDE BUTIDIENE ACRYLONITRILE TRIMETHYLAMINE	25 48 10 60
383	JUBILANT INFRASTRUCTURE LTD SEZ PLOT NO.5, VILAYAT GIDC ESTATE, TA-VAGRA, DIST-BHARUCH	BHARUCH	AMMONIA	100 MT
384	JUBILANT INGREVIA LTD UNIT-II STREET P1-L 13 TO L 16, WITHIN JUBILANT SEZ AT PLOT NO.5, VILAYAT GIDC ESTATE, TA-VAGRA, DIST-BHARUCH	BHARUCH	CHLORINE	140 MT
385	KABSON INDUSTRIES LTD. 706/707 GIDC PALEJ DIST. BHARUCH BHARUCH-392 220 GUJARAT	BHARUCH	LPG	119
386	KADILLAC CHEMICALS PVT. LTD. PLOT NO.853/854, CHOKARI PADRA, VADODARA GUJARAT	VADODARA	CHLORINE	54
387	KAG GRANITO LLP S.R.NO.197 / P 2 / P 2, 197 / P 2 / P 3, 197 / P 2 / P 4, 197 / P 2 / P 5, 8-A NATIONAL HIGHWAY, MATEL ROAD, VILL. MATEL, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE/ LPG	41.89
388	KAG GRANITO LLP S.R.NO.197 / P 2 / P 2, 197 / P 2 / P 3, 197 / P 2 / P 4, 197 / P 2 / P 5, 8-A NATIONAL HIGHWAY, MATEL ROAD, VILL. MATEL, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE/ LPG	41.89
389	KAJARIA VITRIFIED PVT LTD S.NO.785/1 P-1-2, 785/3P-1-2, 8-A NATIONAL HIGHWAY, LAKHDHIRPUR ROAD, AT:GHUNTU. DIST :- MORBI	MORBI	PROPANE / LPG	72
390	KAJARIA VITRIFIED PVT LTD S.NO.785/1 P-1-2, 785/3P-1-2, 8-A NATIONAL HIGHWAY, LAKHDHIRPUR ROAD, AT:GHUNTU.DIST-MORBI	MORBI	PROPANE / LPG	144

391	KALYAN GLAZED TILES 8-A NATIONAL HIGHWAY, B/H. LALPAR POWER HOUSE, AT: JAMBUDIA. MORBI	MORBI	PROPANE / LPG	16.72
392	KAMRON TILES LLP S.R.NO :-23/1P3,23/1P4,23/1P2,23/1P1, NEAR SEKOL TILES, SARTANPAR ROAD,	MORBI	PROPANE / LPG	50
393	KANORIA CHEMICALS & INDUSTRIES LTD. 3407 G.I.D.C. INDUSTRIAL ESTATE ANKLESHWAR-393002 GUJARAT	BHARUCH	AETALDEHYDE  FORMALDEHYDE	126.4  1700 MT
394	KARAN INTERMEDIATES PVT. LTD. SURVEY NO. 455, 456, VILLAGE-NEJA, TAL-KHAMBHAT, DIST-ANAND	ANAND	CHLORINE	48 MT
395	KATARGAM WATER WORKS NR. AMROLI, BRIDGE, KATARGAM, SURAT-395004	SURAT	CHLORINE	8 MT
396	KEDA CERAMIC PVT LTD 8-A NATIONAL HIGHWAY, POST BOX NO.PPW-361, OPP- RAFADESHWAR , PANELI ROAD, JAMBUDIYA , MORBI- 363642	MORBI	PROPANE / LPG	39.98
397	KERONITE TILES PVT LTD LAKHDHIRPUR ROAD, 8-A N. H. VILL:- GHUNTU, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE/ LPG	16.75
398	KESAR TERMINALS AND INFRASTRUCTURES LTD. UNIT-2, PLOT NO. 5,6 KANDLA KUTCH	KUTCH	PETROLEUM PRODUCTS CLASS-A/B/C	71558 KL
399	KESAR TERMINALS AND INFRASTRUCTURES LTD. NEAR OIL JETTY OLD KANDLA KUTCH-370 220 GUJARAT	KUTCH	VERY HIGHLY FLAMMABLE LIQUIDS	13000
400	KESHAV NITRO CHEM LTD PLOT NO 1401 & 1501 TO 1507/3, GIDC, PALEJ, DIST- BHARUCH	BHARUCH	AMMONIUM NITRATE SOLID	1294 MT
401	KEVIN CERAMIC PVT LTD S.R.NO.97/1 TO 97/3, 100/3-5-6, 101/4, SARTANPAR ROAD, VILL.SARTANPAR, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	16.74
402	KEVIN POLYMERS PVT. LTD. PLOT NO 52,53, VILLAGE-ZAK, TAL-DEHGAM, DIST- GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE	38 MT
403	KIA CERAMIC 8-A, NATIONAL HIGHWAY, JUNA SADULKA, TA-MORBI, DIST-MORBI	MORBI	PROPANE	16.75 MT
404	KIRI DYES & CHEMICALS LTD. UNIT-V, PLOT NO-566-552A, DUDHWADA, PADRA, VADODARA	VADODARA	OLEUM 65%, OLEUM 23% LIQUID SO3	500 MT 500 MT 60 MT
405	KIRI INDUSTRIES LTD UNIT-III BLOCK NO.396/399, VILLAGE-DUDHWADA, TA-PADRA. GUJARAT	VADODARA	ETHYLENE OXIDE	14.5 MT

406	KLJ ORGANIC LTD. PLOT NO.759, GIDC, JHAGADIA DIST. BHARUCH BHARUCH-393 110 GUJARAT	BHARUCH	CHLORINE	50 MT
407	KOYO GRANITO LLP S.R.NO.286 P 5, AT - JETPAR ROAD, RANGPAR	MORBI	PROPANE/ LPG	16.74
408	KRIPTON GRANITO PVT LTD S.R.NO.16,17-P1, 17-P2, 22-P1,AT - JETPAR ROAD, HARIPAR	MORBI	PROPANE / LPG	16.74
409	KRISHAK BHARATI CO-OP.FERTILISERS LTD. KAVAS, P.O. KRIBHCONAGAR HAZIRA, SURAT-394515 GUJARAT	SURAT	AMMONIA LPG CHLORINE	20000 5600 MT 13.6 MT
410	KRISHNA ANTIOXIDANTS PVT. LTD. PLOT NO. D-3/24/1, GIDC DAHEJ, PHASE-III, VILLAGE- SAMATPOR, TAL-VAGRA, DIST-BHARUCH	BHARUCH	ETHYLENE OXIDE PROPYLENE OXIDE STYRENE	39 KL 200 MT 41 MT
411	KUSHA CHEMICALS PVT.LTD SURVEY NO.126/2, BEHIND HALOL HIGHWAY AT & POST POPATPURA TAL. GODHRA PANCHMAHALS-389 340 GUJARAT	PANCHMAHAL	ETHYLENE OXIDE	14
412	KUTCH CHEMICAL INDUSTRIES LTD SR.NO.166/123,171/1,172 VILLAGE-PADANA GANDHIDHAM	KUTCH	ETHYLENE OXIDE BENZENE	40 KL 230 KL
413	L - STONE TILES LLP SR. NO.- 427 P 1 / P 1 / P 1, 427 P 1 / P 2, 427 P 2, 427 P 3 AT.- JETPAR ROAD, VILL. :- RANGPAR, TAL. & DIST. :- MORBI	MORBI	PROPANE / LPG	48.59
414	LACTOSE CERAMIC LLP S.R.NO.265 P 1 / P 2, 265 P 2 / P 2, 266 / P 2, 267 P 1, 267 P 2, AT - JETPAR - PIPALI ROAD, VILL.JIVAPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	25.11
415	LAFFANS GRANITO PVT. LTD. SURVEY NO. 279/P, NR. RANGPAR, JETPAR ROAD, AT-JIVAPAR, TAL-MORBI, DIST-MORBI	MORBI	PROPANE	16.75 MT
416	LANCOSA CERAMIC LLP S.R.NO.194 P 1, 194 / P 2, AT - JETPAR ROAD, VILL :- BELA, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
417	LAND CRAFT PAVER LLP SARTANPAR ROAD, 8-A N. H. VILL:- RATAVIRDA, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE/ LPG	49.98
418	LAND DECOR TILES LLP SR.NO-47/p1,47/p2,47/p3,49/p1 SARTANPAR ROAD AT- SARTANPAR TA-WANKANER DIST-MORBI	MORBI	PROPANE/ LPG	49.99
419	LANDGRACE CERAMIC PVT. LTD., Sartanpar Road, 8-A National Highway, Post Sartanpar,	MORBI	PROPANE/ LPG	30.16
420	LANFORD CERAMIC PVT LTD S.R.NO.551 P 1 / P 2 & 551 P 2, AT - JETPAR ROAD, SAPAR ,MORBI	MORBI	PROPANE / LPG	16.66

421	LANXESS INDIA PVT. LTD. PLOT NO. 748/2/A, 748/3, JHAGADIA INDUSTRIAL ESTATE, BHARUCH	BHARUCH	ACRYLONITRILE OLEUM (SO3)	32.5 MT 87.5 MT
422	LAPWING CERAMIC S.R.NO.354 P 2, AT - JETPAR ROAD, VILL. BELA, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
423	LARSON CERAMIC S.R.NO.334- P 2,AT - JETPAR ROAD,RANGPAR,TAL:- &DIST:-MORBI	MORBI	PROPANE / LPG	16.74
424	LATIGRES VITRIFIED PVT LTD S.R.NO.135/P1-P2 & 136/P1, AT-8-A N.H., JAMBUDIYA	MORBI	PROPANE / LPG	16.74
425	LATTO TILES LLP S.R.NO. 159 P1, AT: SARTANPAR ROAD VILL:- SARTANPAR TAL:- WANKANER, DIST:- MORBI	MORBI	PROPANE/ LPG	16.74
426	LAVIT TILE LLP SR. NO.- 433 P1, 433 P2, AT.- JETPAR ROAD, VILL:- RANGPAR, TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE / LPG	41.89
427	LAXVEER CERAMIC LLP S.R.NO.430 P 1, 430 P 2 P 1, 430 P 2 P 2, 430 P 3, AT - JETPAR ROAD, RANGPAR, MORBI	MORBI	PROPANE / LPG	16.74
428	LEADSUN CERAMIC LLP SR.NO-506/P1,P1,P,506/P2,P1,506/P3,P1,506/P4,P1 KHOKHRA BELA ROAD AT-BELA (RANGPAR) TA-MORBI DIST-MORBI	MORBI	PROPANE/ LPG	16.75
429	LEMON TILES LLP S.R.NO. 282 P1, 282 P2, 283, 284, B/H SAIMAX CERAMIC, JETPAR ROAD, RANGPAR, TAL-MORBI, DIST-MORBI	MORBI	PROPANE	16.74 MT
430	LEMOREX GRANITO LLP S.R.NO.292, 293 P 2, 295 P 1, 295 P 2, 296, 297 P 1, AT - JETPAR ROAD, JIVAPAR (CHAKAMPAR)	MORBI	PROPANE/ LPG	40
431	LEMSTONE CERAMIC LLP. S.R. NO :-289P1,P2,P3,P4,291P2,290 & 297P2/P1,JETPAR ROAD, AT.:- JIVAPAR , TA.: MORBI , DIST.: MORBI,	MORBI	PROPANE / LPG	16.74
432	LEMZON GRANITO LLP NH 8 A, SARTANPAR ROAD, AT-RATAVIRDA, TA- WANKANER-363621, DIST-MORBI	MORBI	PROPANE	16 MT
433	LENORA VITRIFIED LLP S.R.NO.425 P 1 - P 1, 425 P 2, 426 P 1 - P 3, AT - JETPAR ROAD, RANGPAR	MORBI	PROPANE/ LPG	16.72
434	LEOPARD VITRIFIED PVT LTD S.R.NO.128/P1, 129/P2, 129/P3, 1230/P1 & P2, NR. AMARDHAM TEMPLE, MATEL ROAD, MATEL	MORBI	PROPANE/ LPG	41.89
435	LEPONO PORCELANO LLP SUR NO. 500&501 P2, JETPAR ROAD, AT-JASMATGADH	MORBI	PROPANE / LPG	16.74
436	LETIC VITRIFIED PVT LTD 8-A NATIONAL HIGHWAY, SARTANPAR ROAD, AT: SARTANPAR	MORBI	PROPANE / LPG	16.72
437	LETOZA GRANITO LLP SR.NO-192/P1,192/P2,P1 DHUVA ROAD 8/A N.H AT- MATEL TA-WANKANER DIST-MORBI	MORBI	PROPANE/ LPG	41.89

438	LEVITA GRANITO LLP S.R.NO.267 P3, 268, 269, AT - JETPAR ROAD, JIVAPAR (CHAKAMPAR)	MORBI	PROPANE/ LPG	40
439	LEVITON CERAMIC LLP S.R.NO.606 / P 3, AT - JETPAR ROAD, NEAR FINOLITE CERAMIC, VILL :- RANGPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.72
440	LEXICON CERAMIC PVT LTD S.R.NO.141 / P 1, AT - UNCHI MANDAL, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
441	LEXO PLUS CERAMIC S.NO. 305 JETPAR ROAD AT : RANGPAR, DIST :- MORBI	MORBI	PROPANE / LPG	19.99
442	LEXOLITE CERAMIC SURVEY NO. 442P1, 442P2, VILL. SAPAR, TAL. MORBI, DIST.MORBI	MORBI	PROPANE / LPG	16.74
443	LEXUS GRANITO (INDIA) LIMITED 8-A, NATIONAL HIGHWAY, LAKHDIRPUR ROAD, MORBI	MORBI	PROPANE/ LPG	20.94
444	LEZORA VITRIFIED PVT. LTD. SARTANPAR ROAD, 8A NATIONAL HIGHWAY, VILL- SARTANPAR, TA-WANKANER, DIST-MORBI	MORBI	PROPANE	16 MT
445	LICHI CERAMIC S.R.NO.292 P 2 / P 2, AT - JETPAR ROAD, VILL. BELA, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	16.74
446	LINIA CERAMIC LLP S.R.NO.429, 436 P 2, AT - JETPAR ROAD, VILL.RANGPAR, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	20
447	LINK PHARMA CHEM LTD. 161/1, GIDC NANDESARI, VADODARA-391340 GUJARAT	VADODARA	CHLORINE	20
448	LIOLI CERAMICA PVT. LTD. N.H. NO. 8-A, NR. LEMICA PAPER MILL, AT-JUNA SADURKA, MORBI-363642	MORBI	PROPANE	48.50 MT
449	LIONA TILES LLP SUR NO- 572 P1, 573/P1, 574/P1JETPAR ROAD	MORBI	PROPANE / LPG	48.58
450	LIVENZA GRANITO LLP S.R.NO.431 P, AT - JETPAR ROAD, VILL :- RANGPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE/ LPG	16.74
451	LIVOLLA GRANITO LLP S.R.NO.930 P 1, P 2, P 3, P 4, & 936 P 1, P 2, AT - LAKHDIRPUR ROAD, 8-A NATIONAL HIGHWAY, VILL. GHUNTU, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
452	LIZZART GRANITO LLP S.R.NO.425 P 1- P 2, 426 P1 - P1, 426 P1-P2, 426 P2, AT- JETPAR ROAD, RANGPAR, TAL-MORBI, DIST-MORBI	MORBI	PROPANE	39.96 MT
453	LOCERO CERAMIC PVT LTD S.R.NO.216 P 1, 216 P 2, 216 P 3, AT - SARTANPAR ROAD, 8-A N.H., VILL:- RATAVIRDA, TAL:- WANKANER, DIST:- MORBI	MORBI	PROPANE/ LPG	16.75
454	LOCERO CERAMIC PVT. LTD. SARTANPAR ROAD, MORBI	MORBI	PROPANE	20 MT
455	LOGART CERAMIC PVT. LTD., S. NO.533, JETPAR ROAD, VILL:-SAPAR, DIST:- MORBI	MORBI	PROPANE / LPG	16.66
456	LOMINO CERAMIC LLP SURVEY NO. 751/1,2,3, OPP. CASVA CERAMIC, HALVAD- MALIYA HIGHWAY, AT-JETPAR, MORBI	MORBI	LPG	20 MT

457	LONIX CERAMICA LLP SR. NO.- 163 P1, 163 P3, AT.- SARTANPAR ROAD, 8A NATIONAL HIGHWAY, VILL:- RATAVIRDA, TAL:- WANKANER, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
458	LOREM TILES PVT LTD S.R.NO.21 / 2 / P 1 & 21 / 2 / P 4, AT – NAVAGAM ROAD, VILL :- LAKHDIRNAGAR,TAL:-&DIST:- MORBI	MORBI	PROPANE / LPG	16.74
459	LORENCE VITRIFIED LLP S.R.NO.493 P1, 493 P2, AT - JETPAR ROAD, VILL :- JASMATGADH, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.59
460	LORENZO VITRIFIED TILES PVT.LTD. 8-A NATIONAL HIGHWAY OPP : OMKAR PETROLEUM , P.B.NO : 411, LALPAR, MORBI-	MORBI	PROPANE / LPG	48.58
461	LOREX CERAMIC SR. NO: - 269 P1, AT:- JETPAR ROAD, VILL:- RANGPAR. MORBI	MORBI	PROPANE / LPG	16.74
462	LORIAN'S CERAMIC LLP S.R.NO. 270 & 271 P 3 / P 2, AT - JETPAR ROAD, VILL :- JIVAPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE/ LPG	20
463	LORICA TILES LLP S.R.NO.271 P 1 / P 2, AT - JETPAR ROAD, VILL. JIVAPAR (CHAKAMPAR), TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	20
464	LOVIN TILES LLP S.R.NO. 274// 1P, 275/ P1, 275 P-2/P1, 275 P2/P3, 291/P1, 297 P2, JETPAR ROAD, VILL :- JIVAPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
465	L-TILE GRANITO LLP S.R.NO.427 P 1 / P 1 / P 2, 428 / P 1, 437 / P 1 / P 2, AT - JETPAR ROAD,VILL.RANGPAR, TAL. & DIST.MORBI	MORBI	PROPANE / LPG	41.89
466	LUBI GEL LIMITED BLOCK NO 513/B, AT-VILLAGE-MANJUSAR, TA-SAVLI,VADODRA 391775	VADODARA	LPG	18.8
467	LUFTEN TILES LLP SR.NO 265 P1/P1, 265P2/P1, 266/P1, 264P1/P2, 264P2/P2, 264P3/P2 JETPAR ROAD VILL JIVAPAR (CHAKAMPAR), MORBI	MORBI	PROPANE/ LPG	16.75
468	LUMEN CERAMIC PVT. LTD. LAKHDIRPUR ROAD, 8A, NATIONAL HIGHWAY, VILLA- GHUNTU, TA-DIST-MORBI	MORBI	PROPANE	41 MT
469	LYZERS CYLINDERS LTD. PLOT NO. 377, 382 SECTOR -IV, KSEZ GANDHIDHAM	KUTCH	LPG	30
470	M.B. CERAMIC LLP S.R.NO.1331P1, 1331P2, 1332 P 1 / P 2, 1332 P 2 / P 2, AT MALIYA - HALVAD ROAD, VILL.KHAKHRECHI,TAL.MALIYA (MI.),DIST.MORBI	MORBI	PROPANE / LPG	16.74
471	M/S AMAL SPECIALITY CHEMICALS LIMITED PLOT NO. 136/137, GIDC ESTATE, ANKLESHWAR, DIST- BHARUCH	BHARUCH	LIQUID SO3 OLEUM 26% OLEUM 65%	169 MT 113 MT 94 MT

472	M/S ANUPAM RASAYAN INDIA LTD. UNIT 1B PLOT NO. 8104 & 8106, GIDC SACHIN, SURAT-394230	SURAT	PROPYLENE OXIDE	20 MT
473	M/S AROMA DE FRANCE BLOCK NO. 324, NR. IPCA LABORATORIES, VILLAGE-RANU, TA-PADRA, DIST-VADODARA	VADODARA	LPG ETHANOL	20 MT 40 KL
474	M/S COLOR TILES PVT. LTD. (UNIT-2) SARTANPAR ROAD, NATIONAL HIGHWAY 8A VILLAGE-SARTANPAR, TAL-WANKANER, DIST-MORBI	MORBI	LPG	16.75
475	M/S GROWMORE LAMINATE LLP AT- MORBI TO NAVALAKHI ROAD, VILLAGE-KHAKHARALA, TAL-MORBI, DIST-MORBI	MORBI	FORMALDEHYDE METHANOL PHENOL	30 KL 30 KL 25 KL
476	M/S LUCKY CHEMICAL INDUSTRIES SHED NO C1B/2132 + C1B/2133, CHEMICAL ZONE, AT GIDC SARIGAM, TA-UMBERGAON, DIST-VALSAD	VALSAD	CHLORINE	18 MT
477	M/S MATANGI INDUSTRIES LLP (UNIT-II) PLOT NO.5605-5614, PHASE II GIDC, VATVA AHMEDABAD-382 445	AHMEDABAD	ETHYLENE OXIDE STYRENE PHENOL	19.9 KL 10 KL 20 KL
478	M/S MULTI SCAFF (INDIA) PLOT NO. 3471 TO 3474, PHASE-4, GIDC, CHHATRAL- KALOL, DIST-GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE METHANOL	200 MT 80 MT
479	M/S PHTHALO SCIENCE PLOT NO. DP-112 SAYKHA INDUSTRIAL ESTATE, SAYKHA, DIST-BHARUCH	BHARUCH	CHLORINE	25 MT
480	M/S SANSKAR CERAMICS PVT. LTD. MATEL ROAD, 8-A, NATIONAL HIGHWAY, VILLAGE- MATEL, TAL-WANKANER, DIST-MORBI	MORBI	PROPANE	16 MT
481	M/S SANSKAR CERAMICS PVT. LTD. (UNIT-II) SARTANPAR ROAD, VILLAGE-MATEL, TAL-WANKANER, DIST-MORBI	MORBI	PROPANE	16 MT
482	M/S SATYESH BRINECHEM PVT LTD. VILLAGE- HAJIPIR, TAL-LAKHPAT, KUTCH	KUTCH	BROMINE CHLORINE H2SO4 NAOH	105 MT 406 MT 220 MT 600 MT
483	M/S TAGROS CHEMICALS INDIA PVT. LTD. PLOT NO. 43/1 & 43/3, GIDC DAHEJ-1, AMOD ROAD, TA- VAGRA, DIST-BHARUCH-392130	BHARUCH	CHLORINE OLEUM CO2	57 MT 40 KL 47 MT
484	MACRO POLYMERS PVT. LTD. (UNIT-4) SURVEY NO. 382, PLOT NO. D 01 TO D 06 GALLOPS INDUSTRIAL PARK – 2, CHACHARWADI – VASNA, TAL-SANAND, DIST- AHMEDABAD	AHMEDABAD	FORMALDEHYDE TDI STYRENE	80 KL 16 MT 56 KL
485	MACSON PRODUCTS (UNIT-2) PLOT NO.6606/2-B GIDC ANKLESHWAR BHARUCH GUJARAT	BHARUCH	ETHYLENE OXIDE	6.4
486	MACTILE INDIA PVT LTD S.R.NO.113/P, 114, N.H. 8 -A, VILL. VAGHASIYA, TAL.WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	71
487	MAGIC CERAMIC OPP.DARIYALALRESORT,8-A NATIONAL HIGHWAY, VILL: JAMBUDIYA, TAL :- & DIST:-MORBI	MORBI	PROPANE / LPG	16.74

488	MAHALAXMI INDUSTRIES PLOT NO.108/1-2, RAVI INDUSTRIAL ESTATE BILESHWARPURA, CHHATRAL KALOL	GANDHINAGAR	CHLORINE	18 MT
489	MAKEWELL PLASTICIZER PVT. LTD. 57 GIDC PHASE-1 VAPI VALSAD	VALSAD	CHLORINE	50
490	MANAKSIA COTTED METAL & INDUSTRIES LTD. SURVEY NO. 396, CHANDRANI, KUTCH	KUTCH	PROPANE SKO	47.4 KL 40 KL
491	MANSHI INDUSTRIES VILL. CHHARODI TAL. SANAND AHMEDABAD GUJARAT	AHMEDABAD	CHLORINE	45
492	MAPS GRANITO PVT LTD NICHU MANDAL S.R.NO.216 P 2, 216 P 3, 216 P 4 / P 1, 216 P 4 / P 2, 217 P 2, 217 P 1 / P 1, 217 P 1 / P 2, 217 P 1 / P 3, UNCHI MANDAL S.R.NO.98 / 1, AT - MORBI - HALVAD HIGHWAY, VILL :- NICHU & UNCHI MANDAL, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	48.58
493	MAPS LABORATORIES PVT. LTD. PLOT NO. 37 & 38, GIDC, MORBI	MORBI	CHLOROFOAM METHANOL CHLORINE	40 MT 3225 LITER 16 MT
494	MARBILANO SURFACES LLP SR. NO.-14 P1, 14P2, AT.- MORBI TO HALVAD ROAD, VILL.: SANAL (TALAVIYA), TALR- MORBI, DISTI MORBI.	MORBI	PROPANE/ LPG	49.85
495	MARFIL TILES LLP SURVEY NO. 171/2 P5/P3, 172/1, 172/2, SARTANPAR ROAD, DIST-MORBI	MORBI	PROPANE / LPG	41.89
496	MATANGI INDUSTRIES PLOT NO.28, PHASE I GIDC, VATVA AHMEDABAD-382 445 GUJARAT	AHMEDABAD	ETHYLENE OXIDE	15
497	MATHEX CHEMICAL PVT.LTD SHAD NO.C-1.6020/1, 4th PHASE, GIDC,VAPI-396195	VALSAD	CHLORINE	15 TONNER (13,500KG)
498	MAX CERAMICS PVT. LTD., 8-A National Highway,Kandla Road, Nr. Timbadi Village, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
499	MAX GRANITO PVT LTD S.NO.139/P,8-A.N.H,B/H 132 KVA SUBSTATION,JAMBUDIYA. DIST :- MORBI	MORBI	PROPANE / LPG	19.7
500	MAYUR DYE CHEM INDUSTRIES A-1/108, GIDC ESTATE, PHASE II VATVA, AHMEDABAD-382445 GUJARAT	AHMEDABAD	ETHYLENE OXIDE	15

501	MAYUR DYE CHEM INT. LTD. UNIT-III SR. NO. 327-334, DUDHWADA/KARKHADI TA. PADRA BARODA	VADODARA	OLEUM(SULPHAR TRIOXIDE)	210
502	MAZZINI TILES LLP SR. NO.- 756 P 2, AT.- 8A NATIONAL HIGHWAY, VILL:- GHUNTU, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
503	M-BO GRANITO LLP. S.R.NO. 239/1 P1 P1, 239/1 P1 P2, 1P4, 239/2 P2, SARTANPAR ROAD MATEL	MORBI	PROPANE/ LPG	41.89
504	MEGA VITRIFIED PVT. LTD. SURVEY NO.27/P.1, OLD GHUNTU ROAD, 8-A, NATIONAL HIGHWAY, TA-MORBI, DIST-MORBI	MORBI	PROPANE	39.96 MT
505	MEGACITY VITRIFIED LLP SURVEY NO. 87/2, OPP BAPA SITARAM HOTEL, MORBI- HALVAD ROAD,	MORBI	PROPANE/ LPG	16.74
506	MEGHA CHEM INDUSTRIES PLOT NO-8,GIDC,PHASE-II VATVA	AHMEDABAD	CHLORINE	21.6
507	MEGHMANI FINE CHEM LTD PLOT NO CH-1 AND CH-2, GIDC, DAHEJ, TA-VAGRA, DIST- BHARUCH	BHARUCH	CHLORINE	15 MT
508	MEGHMANI ORGANIC LTD. PLOT NO-5001/B, GIDC ANKLESHWAR, BHARUCH	BHARUCH	ACRYLONITRILE	52 KL
509	MEGHMANI ORGANICS LTD. PLOT NO.183, PHASE II GIDC VATVA, AHMEDABAD GUJARAT	AHMEDABAD	CHLORINE	12.6
510	MERIDIAN CHEM BOND LTD. PLOT NO. 3209 GIDC ANKLESHWAR BHARUCH-393 002 GUJARAT	BHARUCH	CHLORINE	70
511	MERIDIAN CHEM BOND LTD. PLOT NO. 5906/4 GIDC ANKLESHWAR BHARUCH-393 002 GUJARAT	BHARUCH	CHLORINE	100 MT
512	MERINO INDUSTRIES LTD. VILLAGE-VADADALA, TA-VAGRA, DIST-BHARUCH	BHARUCH	FORMALDEHYDE PHENOL METHANOL	20 MT 5 MT 1 MT
513	METACHEM INDUSTRIES RS.NO.391 & 393, VILLAGE-NEJA, NR. S.V. DYECHEM, TAL- KHAMBHAT, DIST-ANAND	ANAND	OLEUM	60 MT
514	METRO CERAMICS 8-A NATIONAL HIGHWAY, LAKHDHIPUR ROAD, MORBI.	MORBI	PROPANE / LPG	39.9
515	METRO CITY TILES PVT.LTD. S.R.NO.625/P LAKHDHIPUR ROAD, 8-A N.H., VILL - GHUNTU, DIST:- MORBI	MORBI	PROPANE / LPG	19.99
516	METROPOLE TILES PVT LTD S.R.NO.603 P, 623 P, 624 P, AT - LAKHDHIPUR ROAD, 8-A N.H., GHUNTU, DIST:- MORBI	MORBI	PROPANE / LPG	16.74

517	MILLENNIUM TILES LLP S.R.NO. 99 P-1, 99 P-2, 99 P-3, 99 P-3/P-1, 99P3/P2, AT SARTANPAR ROAD 8-A.N.H., MORBI	MORBI	PROPANE / LPG	16.74
518	MILLENNIA TILES PVT. LTD. SR. NO.- 24/1P2, 24/1P1/P2, 27/2, 27/1P1, 27/1P2, 27/1P3, AT.- OLD RAFALESHWAR ROAD, VILL:- BHADIYAD, TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE / LPG	16.72
519	MILLENNIUM CERAMIC LLP S.R.NO.179 / 2, 8-A N.H., AT - DHUVA, VILL.DHUVA, TAL.WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	41.89
520	MILLENNIUM GRANITO INDIA PVT LTD S.R.NO.172, 185 P 1, 185 P 2, 186, AT - 8 - A NATIONAL HIGHWAY, VILL.DHUVA, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE/ LPG	25.11
521	MINOLACIDE & CHEMICAL (P) LTD. 5904/1, GIDC ESTATE ANKLESHWAR BHARUCH-393 002 GUJARAT	BHARUCH	OLEUM(SULPHAR TRIOXIDE)	32.5
522	MONAL LAMINATE PVT LTD NH 8/A, LAKHDIRPUR ROAD, MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	35 MT 50 MT 35 MT
523	MONOLITH SURFACES LLP SR.NO.- 474/1 P3, 474/1 P1, 474/1 P6, 474/1 P7, 474/1 P8, 474/1 P9, KHOKHARA HANUMAN ROAD, VILL:- BELA (RANGPAR), TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE / LPG	16.74
524	MONOLITH SURFACES LLP SR.NO.- 474/1 P3, 474/1 P1, 474/1 P6, 474/1 P7, 474/1 P8, 474/1 P9, T.- 8A NATIONAL HIGHWAY , KHOKHARA HANUMAN ROAD, VILL:- BELA (RANGPAR), TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE / LPG	16.74
525	MONTELLO CERAMIC LLP SR NO-324/1P1, MANDAL-AANDARNA ROAD, AANDARNA, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
526	MOZART VITRIFIED PVT.LTD. S.R.NO.164 P 1, 165 P2, AT - SARTANPAR ROAD, 8-A N.H., RATAVIRDA, AT. RATAVIRDA, DIST:- MORBI	MORBI	PROPANE / LPG	41.89
527	MOZILLA GRANITO LLP SURVEY NO. 144 P, 144/1 P9,54P 54P, 8-A NATIONAL HIGHWAY, MORBI	MORBI	PROPANE / LPG	16.74
528	MUNDRA LPG TERMINAL PVT. LTD. P. O. BOX NO. 1, NAVINAL ISLAND, MUNDRA, KUTCH	KUTCH	PROPANE ETHYL MERCAPTAN	50000 MT 1.1 M <sup>3</sup>
529	MUNDRA PORT & SEZ LTD. NAVINAL ISLAND MUNDRA PORT KUTCH-370 421 GUJARAT	KUTCH	FLAMMABLE CHEMICALS	100000
530	MUNJAL AUTO IND. LTD. 187, GIDC WAGHODIA BARODA-391 760 GUJARAT	VADODARA	LPG	24

531	MUTUAL CHEMICALS DHUMASAN PATIA TAL. KADI KALOL	GANDHINAGAR	CHLORINE	13.5 MT
532	NACL SPEC-CHEM LIMITED PLOT NO. D2/11/B3/2, GIDC ESTATE, DAHEJ-II, TAL- VAGRA, DIST-BHARUCH-392130	BHARUCH	CHLORINE BROMINE	30 TONNER 90 MT
533	NAGESHWARI CERAMIC PVT LTD S.R.NO.568 / P 1, & 567 / P 2, JETPAR ROAD, RANGPAR TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.71
534	NANDESARI INDUSTRIES ASSOCIATION SECONDARY TREATMENT PLANT PLOT NO. 153/A, GIDC, NANDESARI, DIST-VADODARA	VADODARA	CHLORINE	27 MT
535	NARAYAN ORGANICS PVT. LTD. (UNIT-3) PLOT NO. 53/B & C/B, OPP. H.P. PETROL PUMP, GIDC NANDESARI, VADODARA-391340	VADODARA	CHLORINE	79.20 MT
536	NASCENT CHEMICAL INDUSTRY PVT. LTD. PLOT NO.24, GIDC VAPI GUJARAT	VALSAD	CHLORINE	45
537	NATH INDUSTRIAL CHEMICALS LTD. PLOT NO.295, VAPI GIDC, VALSAD-396195 GUJARAT	VALSAD	OLEUM(SULPHAR TRIOXIDE)	358
538	NATIONAL ENGINEERING INDUSTRIES LIMITED PLOT NO. 2-7/3, ALINDRA ESTATE, GIDC MANJUSAR, SAVLI, DIST-VADODARA-391775	VADODARA	LPG METHANOL PETROLEUM CLASS B PRODUCT	19 MT 15 KL 20 KL
539	NATIONAL THERMAL POWER CORP. LTD. VILLAGE : JHANOR BHARUCH	BHARUCH	CHLORINE LPG	10 100
540	NAVBHARAT LPG BOTTLING CO. SABAR DAIRY, TALOD ROAD HIMMATNAGAR SABARKANTHA	SABARKANTHA	LPG	30 MT
541	NAVIN FLORINE INTERNATIONAL P.O. BHESTAN SURAT-394210 GUJARAT	SURAT	CHLORINE  HYDROGEN FLUORIDE OLEUM (SULPHUR TRIOXIDE)	13.5  333 408
542	NAVINON LTD. OPP. RAILWAY STATION RANOLI BARODA GUJARAT	VADODARA	CHLORINE  OLEUM (SULPHAR TRIOXIDE)	31.5  48

543	NAVJEEVAN-O-CHEM 5903/1, GIDC ESTATE ANKLESHWAR BHARUCH-393 002 GUJARAT	BHARUCH	CHLORINE	20
544	NAYARA ENERGY LIMITED (UNIT-IV) PETROLEUM REFINERY P.O. BOX. NO. 24, HEAD P.O. SURVEY NO.62-66, KHAMBHALIYA, DIST-DEVBHUMIDWARKA	DEVBHUMI DWARKA	PROPYLENE	5254 MT
545	NAYARA ENERGY LTD. (ESSAR OIL LTD.) 39 KM MILES STONE, S.H.25, VADINAR, TA-KHAMBHALIYA, DEVBHUMI DWARKA GUJARAT	DEVBHUMI DWARKA	CRUDE OIL NAPHTHA/GASO ETHANOL SAT LPG UNSAT LPG HYDROGEN	16000 15000 1000 3600 3600 600
546	NEELSON CERAMIC LLP. S.R.NO.149/1, TARAVIYA SANALA ROAD, HALWAD ROAD, UNCHI-MANDAL	MORBI	PROPANE / LPG	39.98
547	NEELSON PORSELANO LLP S.R.NO.80, 81 / 1, AT - MORBI TO HALVAD ROAD, VILL.GHUNTU, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	79.96
548	NEHANI TILES LLP S.R.NO.134 / P 1, 134 / P 5, HALVAD ROAD, UNCHI MANDAL , DIST-MORBI	MORBI	PROPANE / LPG	16.74
549	NELSON LAMINATE PVT. LTD. SURVEY NO. 394/P2, HARIPAR ROAD, NH 8A, AT-POST NAVA SHADULKA, DIST-MORBI	MORBI	FORMALDEHYDE METHANOL PHENOL	57 MT 22 MT 28 MT
550	NEOGEN CHEMICALS LTD AT - PO- KARAKHADI, TAL-PADRA, DIST-VADODARA	VADODARA	BROMINE METHANOL EDC TOLUENE N-PROPANOL	46.92 MT 15 KL 10 KL 0.2 KL 10 KL
551	NEON FUEL LTD. AT. KHODAMBA TAL. BHILODA ARAVALLI GUJARAT	ARAVALLI	LPG	30
552	NESSA VITRIFIED LLP S.R.NO.227 & 228, AT - MATEL ROAD, 8 - A NATIONAL HIGHWAY, VILL :- LAKADDHAR, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
553	NEW INDIA ACID (BARODA) PVT. LTD. PLOT NO. D-2 CH-61-62, PHASE-II, GIDC ESTATE, DAHEJ, DIST-BHARUCH	BHARUCH	CHLORINE	56 MT
554	NEWMET INDUSTRIES 37, 1ST PHASE GIDC, VAPI	VALSAD	CHLORINE	10.8
555	NEXION INTERNATIONAL PRIVATE LIMITED S.R.NO.171 / 1 / 1 / P 2, 171 / 1 / 3 / P 2, 171 / 1 / 2 / P 2, 171 / 2, MORBI - HALWAD HIGHWAY, UNCHI MANDAL, DIST:- MORBI	MORBI	PROPANE / LPG	19.99
556	NEXION SURFACES PRIVATE LIMITED S.R.NO.171 / 1 / 1 / P 2, 171 / 1 / 3 / P 2, 171 / 1 / 2 / P 2, 171 / 2, MORBI - HALWAD HIGHWAY, UNCHI MANDAL	MORBI	PROPANE/ LPG	16.75

557	NEXONA CERAMIC LLP SARTANPUR ROAD, VILL-RATAVIRDA, TAL-VANKANER, DIST-MORBI	MORBI	PROPANE / LPG	16.74 MT
558	NEXTILE MARBOSYS PVT LTD S.R.NO.136 / P 1, 136 / P 2, 137, 138, 147 / 1 P 4, AT - SARTANPAR ROAD, VILL :- SARTANPAR, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
559	NICE CERAMIC PVT.LTD. S.NO.13, 8-A NATIONAL HIGHWAY, AT:LALPAR	MORBI	PROPANE / LPG	16.66
560	NILKANTH GLAZED PVT LTD S.R NO.248 P-1-P, AT- JETPAR ROAD, BELA MORBI	MORBI	PROPANE/ LPG	16.74
561	NIRMA LTD. KALA TALAV, TA-DIST-BHAVNAGAR	BHAVNAGAR	CHLORINE	372
562	NIRMA LTD. N.H. NO.8, NR. VILLAGE MANDALI DIST. MEHSANA GUJARAT	MEHSANA	OLEUM(SULPHAR TRIOXIDE)	8100
563	NIRMA LTD. SAVALI ROAD VILLAGE: ALINDRA BARODA-391 775 GUJARAT	VADODARA	LPG NAPHTHA BENZENE N-PENTANE KEROSENE ISO-OCTANE	20.8 228 1670 410 35062 294
564	NOBEL WALL TILES S.NO.37, 8-A NATIONAL HIGHWAY, OLD GHUNTU ROAD, AT: MAHENDRANAGAR, MORBI	MORBI	PROPANE / LPG	16.74
565	NOBLE LAMINATES PVT. LTD. BLOCK NO. 451, PAIKI, 452, PAIKI, 453 PAIKI, NR. PALAV HOTEL, VILLAGE-CHANDRALA, TAL-SADRA, DIST- GANDHINAGAR-382320	GANDHINAGAR	FORMALDEHYDE METHANOL PHENOL	35 MT 25 MT 20 MT
566	NOKEN VITRIFIED PVT.LTD. S.R.NO. 204/P1, 204/P3, 205/P1, 205/P2, 208/P1, 209/P1, MORBI-HALVAD ROAD, VILL :- NICHU MANDAL, MORBI	MORBI	PROPANE / LPG	49.98
567	NOVA DYESTUFF IND. PVT. LTD. 251, GIDC, PANDESARA SURAT	SURAT	ETHYLENE OXIDE	7.2 MT
568	NTPC - KAWAS GAS POWER PROJECT PO ADITYA NAGAR SURAT-394 516 GUJARAT	SURAT	CHLORINE NAPHTHA	11 8000 KL
569	OASIS TILES LLP S.R.NO.73/2 P1, 73/2 P2, 73/2 P3,AT - 8-A N.H., MORBI TO KANDLA HIGHWAY, TIMBADI	MORBI	PROPANE / LPG	119.3
570	OCTIVA CERAMIC LAKHDIRPUR ROAD,8-A NATIONALHIGHWAY,TAL:-& DIST:-MORBI	MORBI	PROPANE / LPG	39.99
571	OLIVIA CERAMIC PVT. LTD. Sr. no. 213 paiki 1/213 paiki 2, Jetpur Road, At. Bela,	MORBI	PROPANE/ LPG	16.75
572	OLWIN TILES (INDIA) PVT .LTD. NH NO. 8 A, NEW JHAMBUDIYA, MORBI	MORBI	PROPANE	16.7 MT

573	OLYMPIC DÉCOR LLP BLOCK 49-50, VILLAGE-KAROLI, TAL-KALOL, DIST-GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE METHANOL PHENOL	50 MT 18 MT 65 MT
574	OM LAMCOAT PVT LTD OPP. DADASHRINAGAR, NH NO. 8A, TA-MORBI, DIST-MORBI	MORBI	FORMALDEHYDE METHANOL PHENOL	27.5 MT 21 MT 21 MT
575	OM SHIV DYESTUFF PVT. LTD. PLOT 156-161/P DHANOT CHHATRAL KADI ROAD KALOL	GANDHINAGAR	ETHYLENE OXIDE	7
576	OMKAR CHEMICAL PVT. LTD. PLOT NO. 406, GIDC PANOLI, TA- ANKLESHWAR, DIST-BHARUCH	BHARUCH	ETHYLENE OXIDE METHANOL FORMALDEHYDE	20 MT 5 MT 1 MT
577	OMNOVA SOLUTIONS (INDIA) PVT LTD. (Apcotex) (POLYMERS DIVISION) DUNGARI BHARUCH-393 135 GUJARAT	BHARUCH	ACRYLONITRILE  1,3-BUTADIENE STYRENE	100  250 205
578	ONERY TILES LLP SURVEY NO. 269/P3/P4, MITANA ROAD, NEKNAM MITANA, MORBI-363650	MORBI	PROPANE	20 MT
579	ONGC - HAZIRA GAS PROCESSING COMPLEX ONGC NAGAR SURAT-394 518, GUJARAT	SURAT	FLAMMABLE GASES  VERY HIGHLY FLAMMABLE LIQUIDS	12240  95000
580	ONGC C2, C3 & C4, EXTRACTION PLANT, PLOT NO. 7D, SEZ AREA, DAHEJ, TAL-VAGRA, DIST-BHARUCH	BHARUCH	PROPANE BUTANE ETHANE METHANOL	1950 M <sup>3</sup> 1150 M <sup>3</sup> 4200 M <sup>3</sup> 88 M <sup>3</sup>
581	ONGC PETRO-ADDITIONS LIMITED PLOT NO. Z-1, & Z-83, SEZ DAHEJ, DIST-BHARUCH	BHARUCH	CHLORINE NAPHTHA BUTADINE ETHYLENE PROPYLENE PROPANE BUTANE	12 MT 18120 M <sup>3</sup> 8400 M <sup>3</sup> 112000 M <sup>3</sup> 22400 M <sup>3</sup> 2266 M <sup>3</sup> 2266 M <sup>3</sup>
582	ORFINA CERAMIC PVT. LTD. JETPUR ROAD, VILL-RANGPAR, TA-DIST-MORBI	MORBI	PROPANE / LPG	16.72 MT
583	ORGANIC INDUSTRIES PVT. LTD. PLOT NO. S/163, GIDC DAHEJ, TAL-VAGRA, DIST-BHARUCH-392130	BHARUCH	CHLORINE	18.9
584	ORIENTAL AROMATICS LTD. PLOT NO. 3, GIDC, NANDESARI, VADODARA	VADODARA	PROPYLENE OXIDE	59
585	ORINDA GRANITO LLP S.R.NO.214 / P 1, 214 / P 2, 215, AT - MORBI - HALVAD ROAD, VILL :- NICHU MANDAL	MORBI	PROPANE/ LPG	16.74

586	ORINDA INDUSTRIES LLP S.R.NO:-64/P2, 64/P3,64/P5,64P6,64/P7,59/1, 59/2, 60/P1 ,OPP. NEXION INTE.. PVT. LTD., HALVAD ROAD.	MORBI	PROPANE / LPG	100
587	ORKAY CERAMIC LLP S.R.NO.48 P 5 / P 2, 48 P 8, AT - 8-A N.H., VILL.VAGHASIYA, TAL.WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	16.74
588	OVEL LAMINATE LLP 8-A, NATIONAL HIGHWAY, OPP. ATONE MICRONS, AT- SOKHDA, MORBI-363642	MORBI	FORMALDEHYDE METHANOL PHENOL	40 MT 40 MT 40 MT
589	P.I.INDUSTRIES LTD, 237 GIDC PANOLI, BHARUCH BHARUCH-394 116 GUJARAT	BHARUCH	CHLORINE  PHORATE ETHION	12  100      100
590	PADMAVATI DÉCOR PVT LTD PLOT NO. 47/48, 1ST PHASE, GIDC, VAPI, DIST-VALSAD	VALSAD	FORMALDEHYDE PHENOL	21 MT 21 MT
591	PANARA CERAMIC PVT LTD S.R.NO.155 P 1 / P 2 / P 1, 155 P 2 / P 1, AT - MORBI - HALVAD ROAD, VILL :- UNCHI MANDAL TAL :- & DIST :- MORBI	MORBI	PROPANE/ LPG	16.75
592	PANCHMAHAL STEEL LTD. GIDC KALOL PANCHMAHALS	PANCHMAHAL	LPG	44.6 MT
593	PANOLI INTERMEDIATE (INDIA) PVT. LTD. PLOT NO. 778/1, GIDC JHAGADIA BHARUCH-393 110 GUJARAT	BHARUCH	CHLORINE	100
594	PANOLI INTERMEDIATES (INDIA) PVT. LTD. PLOT NO. 11 & 18, PETROCHEMICAL COMPLEX INDUSTRIAL ESTATE, RANOLI, TA-VADODARA, DIST- VADODARA-391350	VADODARA	SULPHUR DI OXIDE THIONYL CHLORIDE	22.8 MT 93.7 MT
595	PANOLI INTERMEDIATES UNIT-5 129/1-B GIDC NANDESARI VADODARA	VADODARA	ETHYLENE OXIDE	9.5
596	PANOLI INTERMEDIATES PLOT NO. 157 GIDC NANDESARI, BARODA GUJARAT	VADODARA	ETHYLENE OXIDE	8.25
597	PANOLI PRODUCTS PVT. LTD. PLOT NO.33/3, 33/6 GIDC PANOLI ANKLESHWAR BHARUCH-394 116 GUJARAT	BHARUCH	CHLORINE	100

598	PANORAMA AROMATICS LTD. PLOT NO. 2908-2911, PHASE III GIDC, PANOLI BHARUCH GUJARAT	BHARUCH	CHLORINE	19.8
599	PARCOS TILES LLP S.R.NO.420/P1, 421/P1, 424P 1 / P 1 & 424 P 2 / P 1, AT - JETPARROAD,RANGPAR,TAL:- & DIST :- MORBI	MORBI	PROPANE / LPG	41.89
600	PARIKH ENTERPRISES PVT. LTD. 422, GIDC ODHAV, AHMEDABAD GUJARAT	AHMEDABAD	CHLORINE	20
601	PARIKSHIT DÉCOR PVT LTD. NH -8A, HALVAD KHIRAI ROAD, MORBI	MORBI	METHANOL PHENOL FORMALDEHYDE MELAMINE	21 MT 25 MT 30 MT 30 MT
602	PARIKSHIT LAMINATE PVT LTD. ISHWARNAGAR, HALVAD MALIYA HIGHWAY, HALVAD, DIST-MORBI	MORBI	FORMALDEHYDE METHANOL PHENOL	70 MT 35 MT 25 MT
603	PARSHWNATH DYE CHEM IND.PVT LTD, A-2/495, PH- 2,GIDC-VATVA, AHMEDABAD	AHMEDABAD	CHLORINE	16 MT
604	PARTH PETROLEUM PVT. LTD. HIMMATNAGAR SHAMLAJI ROAD BHILODA SABARKANTHA	SABARKANTHA	LPG	20 MT
605	PASSION VITRIFIED PVT. LTD S.R.NO.222,223P1,223P2, AT:-MATEL,	MORBI	PROPANE / LPG	9.99
606	PATSON INDUSTRIES PLOT NO 23, WAGHASIYA GIDC, NR. TOLNAKA, MORBI- WANKANER, WANKANER, DIST-MORBI	MORBI	FORMALDEHYDE METHANOL	400 MT 240 MT
607	PAUSHAK LTD. PANELAV, PANCHMAHAL KALOL-389350 GUJARAT	PANCHMAHAL	PHOSGENE CHLORINE	300 kg 45 MT
608	PAWAN FORMALIN PVT LTD NH 8/A, OPP. DARIYALAL RESORT, JAMBUDIA, MORBI	MORBI	FORMALDEHYDE METHANOL	400 MT 300 MT
609	PAYAL PETROCHEM PVT. LTD. PLOT NO. D-2/CH-II, DAHEJ-GIDC, TA-VAGRA, DIST-BHARUCH	BHARUCH	CHLORINE SULPHUR DIOXIDE OXO-ALCOHOL	600 MT 2 MT 600 MT
610	PERTH CERAMIC PVT LTD S.R.NO.135 / 1 P 1, OPP. 66 KVA SUB STATION, VILL. UNCHI MANDAL, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
611	PESTIMADE GUJARAT, 2403/2, PHASE-2, GIDC- CHHATRAL, GANDHINAGAR, license - 8226	GANDHINAGAR	PHORATE METHYL PARATHION PARATHION ETHION	20 MT
612	PETHOS TILES LLP S.R. NO.48,50 P1, 50P2, 51P1/P1,51P1/P2,51P1/P2/P1, 51P2/P1,51P2/P2,51P2/P3, NR. LEMZON GRANITO LLP, AT.:RATAVIRDA, MORBI	MORBI	PROPANE/ LPG	58.81

613	PETRONET LNG LTD. PLOT NO.7/A, GIDC, DAHEJ, TAL. VAGRA ANKLESHWAR BHARUCH	BHARUCH	LNG	592000M <sup>3</sup>
614	PHARCOS SPECIALITY LIMITED (GUJARAT CHEMICALS) PLOT 248-250, 279-281 RANSAN GIDC, TAL-VIJAPUR, MEHSANA	MEHSANA	ETHYLENE OXIDE	8
615	PHARMA CHEMICAL INDUSTRIES, 2811, GIDC-SARIGAM	VALSAD	CHLORINE	18 MT
616	PTHALO SCIENCE PLOT NO. DP-112, SAYKHA INDUSTRIAL ESTATE, SAYKHA, DIST-BHARUCH	BHARUCH	CHLORINE	25 MT
617	PI INDUSTRIES PLOT NO. 3133 TO 3139 & OTHER, GIDC PANOLI, TA- ANKLESHWAR, DIST-BHARUCH	BHARUCH	ETHION	45 MT
618	PI INDUSTRIES PLOT NO. SPM -28, STERLING SEZ, AT & POST-SAROD, TA- JAMBUSAR, DIST-BHARUCH	BHARUCH	CHLORINE BROMINE ACN ISO BUTYLENE	19.8 MT 81 MT 40 MT 10 MT
619	PINNACLE CHLOROCEM PVT LTD 122/4, RAVI IND. ESTATE, B/H. PRESTIGE HOTEL, BILESHWARPURA, CHHATRAL, GANDHINAGAR	GANDHINAGAR	CHLORINE	20 mt
620	PIONEER CERAMICS INDUSTRIES S.NO.750/P/1 & 750/P/2, 8-A NATIONAL HIGHWAY, AT: GHUNTU.	MORBI	PROPANE / LPG	33.5
621	PIONEER PESTICIDES BAYAD, DIST-ARAVALLI	ARAVALLI	PHORATE METHYL PARATHION	1.5 500 KG
622	PIRAMAL PHARMA LTD. (CONVERGENCE CHEMICALS PVT LTD) PLOT NO D-2/11/A, GIDC, DAHEJ, TA-VAGRA, DIST- BHARUCH	BHARUCH	CHLORINE HYDROGEN FLOURIDE	18 MT 20 MT
623	PLATINA VITRIFIED PVT.LTD 8-ANATIONALHIGHWAY,NEAR- LALPAR , BEHIND-SHREEJI GOLD CERAMICS, MORBI, TAL :- & DIST:- MORBI	MORBI	PROPANE / LPG	16.74
624	PLAZMA GRANITO PVT.LTD. S.R.NO. 163/1, LAKADDHAR ROAD, 8-A NATIONAL HIGHWAY, MATEL, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
625	Pollens Granito LLP Jetpar Road, Vill Sapar, Ta/Dist:Morbi	MORBI	PROPANE / LPG	49.89
626	PRASUM METALS PVT. LTD. MORBI RAJKOT HIGHWAY VIRPUR, MORBI-363641	MORBI	LPG	19.9
627	PRATIKSHA CHEMICALS LTD. IYAVA-VASNA TAL. SANAND, DIST. AHMEDABAD GUJARAT	AHMEDABAD	CHLORINE	13.5
628	PRIME ORGANIC B.NO. 565/B, E.C.P. ROAD, AT-LUNA, TA-PADRA, DIST- VADODARA	VADODARA	CHLORINE	18 MT
629	PROTON GRANITO PVT LTD. NH 8 A, SARTANPAR ROAD, AT-RATAVIRDA, TA- WANKANER-363621, DIST-MORBI	MORBI	PROPANE	16 MT

630	PROTON GRANITO PVT. LTD. S.R.NO.184/1, 184/2, 184,/4, 185/1, 185/2 & 186, AT - SARTANPAR ROAD, 8 - A N.H., RATAVIRADA	MORBI	PROPANE/ LPG	16.74
631	PTHALO-COLORS INDUSTRIES UNIT-II 2 GIDC VAPI VALSAD	VALSAD	CHLORINE	30
632	Q-7 CERAMIC LLP MORBI-HALVAD ROAD, VILL:- NICHU MANDAL , TAL:- MORBI, DIST:-MORBI	MORBI	PROPANE / LPG	16.74
633	QURO VITRIFIED PVT. LTD. S.R. NO :- 196 & 197/P1, NR. AMARDHAM TEMPLE, MATEL ROAD,	MORBI	PROPANE/ LPG	16.75
634	QUTONE CERAMIC PVT LTD (UNIT -3) S.R.NO.183,184/P-1-3-5,N.H.8- A, AT-VAGHASIYA, TAL:WANKANER,DIST.MORBI	MORBI	PROPANE / LPG	16.74
635	R.R.PATEL INDUSTRIAL GASES PVT. LTD. SURVEY NO. 407, B/H WATERMAN INDUSTRIES, SARKHEJ- BAVLA HIGHWAY, VILL-MORAIYA, DIST-AHMEDABAD- 382213	AHMEDABAD	ETHYLENE OXIDE	9.9 KL
636	RAHIL PACK PVT. LTD. SUR. NO. 101, OLD RAFADESHWAR ROAD, VILL-BHADYAD, MORBI	MORBI	LPG	18.71 MT
637	RAINBOW LAMINATE PVT. LTD. NH - 8-A, LALPAR, MORBI-363642	MORBI	PHENOL METHANOL FORMALDEHYDE	30 MT 30 MT 30 MT
638	RAJAL LAMINATE PVT. LTD SURVEY NO 330, NEAR PARTH COTTON INDUSTRY, AT- RAVAPAR NADI, MORBI-363042	MORBI	FORMALDEHYDE METHANOL PHENOL	50 MT 35 MT 30 MT
639	RAJASHREE POLYFIL (A DIVISION OF CENTURY ENKA LTD.) RAJASHREE NAGAR, P.O. UMALLA, TAL-JHAGADIA, DIST-BHARUCH	BHARUCH	LNG	35 MT
640	RAMA CYLINDERS PVT. LTD. PLOT NO. 629-617, NEW AREA, KASEZ, GANDHIDHAM- 370240	KUTCH	PROPANE OXYGEN	39.8 20 M <sup>3</sup>
641	RAMEST GRANITO LLP S.R.NO. 173 P-1, 173 P-2, 173 P- 3,MORBIHALVADROAD,UNCHI MANDAL TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	100
642	RAMOJI GRANITE PVT LTD S.R. NO.61 & 60/P N.H.8-A, MORBI WANKANER & ON MATEL ROAD, VILL-SARTANPAR., DIST:- MORBI	MORBI	PROPANE / LPG	30.16
643	RANDER WATER WORKS OPP. BOTONICAL GARDEN, SURAT-395007	SURAT	CHLORINE	4 MT
644	RANGE CERAMIC PVT LTD. JETPAR ROAD, OPP. CNG PUMP, AT- BELA, MORBI-363642	MORBI	PROPANE	20 MT
645	RANGOLI LAMINATE PVT. LTD. NH - 8-A, LALPAR, MORBI-363642	MORBI	PHENOL METHANOL FORMALDEHYDE	47 MT 35 MT 35 MT

646	RASAYAN ENTERPRISE 36 GIDC NANDESARI VADODARA	VADODARA	ETHYLENE OXIDE	7.5
647	RATNA NICOCHEM PVT. LTD. C-1-41-B-4, GIDC ESTATE NANDESARI BARODA GUJARAT	VADODARA	CHLORINE	11
648	REAL METAL CHEM PLOT NO. 3519, PHASE-IV, GIDC ESTATE, CHHATRAL, DIST-GANDHINAGAR	GANDHINAGAR	CHLORINE	67.5 MT
649	RECORE CERAMIC SURVEY NO.183 PAIKI 1, SARTANPAR ROAD, AT : RATAVIRADA	MORBI	PROPANE/ LPG	16.72
650	RED MICA PVT LTD SURVEY NO 1068, SAPA LAWAD ROAD, LAWAD, TA- DEHGAM, DIST-GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE PHENOL METHANOL MALAMINE	45 MT 40 MT 15 MT 30 MT
651	RELIABLE DYECHEM PVT. LTD. NR. BHESAN ROAD, CORNER SABALPUR, DIST. JUNAGADH-362001 GUJARAT	JUNAGADH	ETHYLENE OXIDE	7.3
652	RELIANCE INDUSTRIES LIMITED (SEZ) - PADANA, NAVAGAM, TA-LALPUR, JAMNAGAR-361140 (MOTIKHAVDI)	JAMNAGAR	DIESEL GASOLINE CRUDE	83632 38218 146944
653	RELIANCE INDUSTRIES LTD. AROMATICS & PETRO-CHEMICALS PADANA/MEGHPAR, TAL.LALPUR JAMNAGAR-361 140 GUJARAT	JAMNAGAR	HIGHLY FLAMMABLE LIQUIDS	55300
654	RELIANCE INDUSTRIES LTD. GANDHAR PETROCHEMICALS COMPLEX P.O.DAHEJ, TAL. VAGRA BHARUCH-392 130 GUJARAT	BHARUCH	CHLORINE ETHYLENE OXIDE ETHYLENE LPG NAPHTHA PROPYLENE HEXANE ETHYLENE DICHLORIDE VINYL CHLORIDE MONOMER BUTANE ETHANE/PROPANE	379.25 162 215.6 540 46617 4430 1650 7314 5600 400 2720
655	RELIANCE INDUSTRIES LTD. MORA, POST BHATHA HAZIRA ROAD SURAT-394 510 GUJARAT	SURAT	CHLORINE ETHYLENE OXIDE FLAMMABLE GASES HYDROGEN CHLORIDE (LIQUIFIED) VERY HIGHLY FLAMMABLE LIQUIDS	39 150 45260 25 29000

656	RELIANCE INDUSTRIES LTD. P.O. PETROCHEMICALS, JAWAHAR NAGAR VADODARA GUJARAT	VADODARA	HIGHLY FLAMMABLE LIQUIDS ACRYLONITRILE AMMONIA BUTADIENE (1) ETHYLENE OXIDE ETHYLENE HYDROGEN FLUORIDE LPG NAPHTHA PROPYLENE VINYL CHLORIDE MONOMER BUTANE	22556 3600 201 1110 136 3204 5 2180 38810 1330 1361 131
657	RELIANCE PETRO MARKETING LIMITED (LPG INFRASTRUCTUE (I) LTD.) S.N.214, AT-PIMPAN, TA-SANAND, AHMEDABAD	AHMEDABAD	LPG	100 MT
658	RELIANCE PETRO MARKETING LTD. P-1315, GIDC, LODHIKA IND. ESTATE METODA RAJKOT	RAJKOT	LPG	86 mt
659	RELIANCE SIBUR ELASTOMERS PVT.LTD. VILLAGE-KANALUS, TAL-LALPUR, DIST-JAMNAGAR	JAMNAGAR	CHLORINE BROMINE	20 MT 3.7 MT
660	RELIANCE SYNGAS LIMITED-DTA VILLAGE-KANALUS/PADANA, TAL-LALPUR, DIST- JAMNAGAR	JAMNAGAR	METHANOL LIQ. OXYGEN	12919 MT 2700 MT
661	RELIANCE SYNGAS LIMITED-SEZ VILLAGE-KANALUS/PADANA, TAL-LALPUR, DIST- JAMNAGAR	JAMNAGAR	METHANOL LIQ. OXYGEN	12919 MT 2700 MT
662	RENAISSANCE INDUSTRIES PLOT NO. 104, 105, GIDC, VARTEJ, DIST-BHAVNAGAR	BHAVNAGAR	CHLORINE	13
663	RENITE VITRIFIED LLP S.R.NO. 75 P1/P2, 76 P1/P2/P3/P4/P5/P6, SARTANPAR ROAD, DIST:- MORBI	MORBI	PROPANE / LPG	41.89
664	REOLAXE LAMI ART LLP SR. NO. 567/P, AT-8A , NATIONAL HIGHWAY, VILLAGE- NANA SADULKA, TA-DIST-MORBI	MORBI	FORMALDEHYDE METHANOL PHENOL	40 KL 28 KL 60 KL
665	RESIN & ALLIED CHEMICALS INDUSTRIES (BOMBAY) PVT. LTD. SHED NO. C-1/46, 100 SHED ARIA GIDC, VAPI-396195	VALSAD	FORMALDEHYDE CYCLOHEXANONE	23 KL 37 KL
666	REVENZA CERAMIC S.NO. 131/P-4 WANKANER-MORBI NATIONAL HIGHWAY 8-A	MORBI	PROPANE / LPG	16.74
667	REX CERAMIC PVT LTD S.R.NO.407 P - 1 / P 1, B/H BENTENCERAMIC, RANGPARTAL:-&DIST:-MORBI	MORBI	PROPANE / LPG	16.67
668	REXSONA TILES PVT LTD. 8-A, NATIONAL HIGHWAY, MATEL ROAD, MATEL (DHUVA), NR. AMARDHAM, TAL-WANKANER, DIST- MORBI	MORBI	LPG	16.7 MT

669	REXTRON CERAMICS PVT LTD S.R.NO.475 / P 1, MORBI - JETPAR ROAD, NEAR CANAL, JASMATGADH	MORBI	PROPANE/ LPG	20
670	REZON LAMINATES PVT LTD. NH 8/A, B/H ASHVAMEGH HOTEL, VILLAGE-TIMBADI, MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	20 MT 40 MT 20 MT
671	RHYNO FOAM INDUSTRIES SRNO.22,NH-27,NR.JALIDABUS STOP, WANKANER, TAL:WANKANER,DIST.MORBI	MORBI	PROPANE / LPG	19.99
672	RICH VITRIFIED PVT LTD S.R.NO.220, SARTANPAR ROAD, VILL.MATEL, TAL. WANKANER, DIST :- MORBI	MORBI	PROPANE / LPG	119.3
673	RICH VITRIFIED PVT LTD S.R.NO.220, SARTANPAR ROAD, VILL.MATEL, TAL. WANKANER, DIST :- MORBI	MORBI	PROPANE/ LPG	58.81
674	RIO CERAMIC PVT LTD S.R.NO.603/P-1, AT -JETPAR ROAD,RANGPARTAL:- &DIST:- MORBI	MORBI	PROPANE / LPG	16.74
675	RIONA LAMINATE PVT. LTD. NH 8-A, SARTANPAR ROAD, TAL-WANKANER-363621, DIST-MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	45 MT 50 MT 35 MT
676	RISHI KIRAN TERMINALS PVT. LTD. PLOT NO.8, LINK ROAD OLD KANDLA, KUTCH GUJARAT	KUTCH	ACRYLONITRILE	3400
677	RISHIKIRAN LOGISTIC PVT. LTD. PLOT NO.7, LINK ROAD OLD KANDLA, KUTCH GUJARAT	KUTCH	ACRYLONITRILE	3400
678	ROAR CERAMIC LLP S.R.NO.583, AT - JETPAR ROAD, VILL.RANGPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
679	ROCK GRANITO LLP SR.NO.- 13/1, 13/2, 14/1, PLOT NO.-1 AT.- MORBI TO HALVAD ROAD, VILL:- UNCHIMANDAL, TAL:- MORBI, DIST:- MORBI.	MORBI	PROPANE/ LPG	16.75
680	ROCKLAND CERAMIC LLP S.R.NO.563, AT - JETPAR ROAD, SHAPAR	MORBI	PROPANE/ LPG	20
681	ROHAN DYES AND INTERMEDIATES LTD. (UNIT-II) SURVEY NO.637/23/1/2, KALAMSAR VILLAGE, DHUWARAN ROAD, TAL-KHAMBHAT, DIST-ANAND	ANAND	OLEUM 65% CHLOROSULPHONIC ACID SULPHURIC ACID	725 MT 1230 MT 1400 MT
682	ROHAN DYES AND INTERMEDIATES LTD. 637, KALAMSAR KHAMBHAT ANAND	ANAND	OLEUM(SO3) SULPHURIC ACID AMMONIA	45 40 3
683	ROLEX CERAMIC 8-A NATIONAL HIGHWAY, LAKHDIRPUR ROAD, GHUNTU, MORBI-2	MORBI	PROPANE / LPG	16.74
684	ROLLS GRANITE LLP S.R.NO:-163P1,163P2,166/2P1,166/2P2, 166/2P3,166/2P4,168P1,SARATANPAR ROAD, 8-A N.H, DIST:- MORBI	MORBI	PROPANE / LPG	72

685	ROLLSTAR GRANITO LLP SURVEY NO. 213,214,215 P2,216/2,217/1,217/2, MATEL ROAD, 8-A NATIONAL HIGHWAY,	MORBI	PROPANE/ LPG	16.74
686	ROLLZA GRANITO LLP S.R.NO.11 P 1, 11 P 2, 11 P 3, AT - HALVAD ROAD, VILL :- TALAVIYA SANALA, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	49.98
687	ROME TILES LILAPAR ROAD,OPP.GEB SUBSTATION,MORBI,TAL:-& DIST:-MORBI	MORBI	PROPANE / LPG	16.74
688	ROSEWOOD LAMINATES NH 8/A, MATEL ROAD, VILLAGE-MATEL, TA-WANKANER, DIST-MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	40 MT 40 MT 30 MT
689	ROSSA TILES PVT. LTD. SARTANPAR ROAD, 8A, NATIONAL HIGHWAY, VILL- RATAVIRDA, TA-WANKANER, DIST-MORBI	MORBI	PROPANE	33.5 MT
690	ROSSO LAMINATE LLP SR. NO. 55 P1/2, 55 P3, OPP. ASHWAMEGH HOTEL, 8-A N.H., AT-TIMBADI, DIST-MORBI	MORBI	FORMALDEHYDE METHANOL PHENOL	30 KL 20 KL 11 KL
691	ROTTA CERAMIC LLP SR.NO.256, AT-GALA-SAPAR ROAD, VILL-VAGHPAR, TAL & DIST-MORBI	MORBI	PROPANE	16.74 MT
692	ROYAL EPE FOAM PVT. LTD. RANGPAR-MORBI ROAD, TA-VANKANER,DIST-MORBI	MORBI	LPG	15.1
693	RSPL LTD. PORBANDAR DWARKA HIGHWAY, VILLAGE-KURANGA, DIST-DEVBHUMIDWARKA -361335	DEVBHUMI DWARKA	AMMONIA	58 MT
694	S.H.V. ENERGY NORTH WEST INDIA LTD. 40-44, GIDC, 40-49, SARIGAM VALSAD	VALSAD	LPG	120
695	SADASHIV CERAMIC LLP S.R.NO.490 P 1, 490 P 2, AT - KHOKHARA HANUMAN ROAD, VILL.BELA,TAL.&DIST.MORBI	MORBI	PROPANE / LPG	25.12
696	SAFE CERAMIC PVT. LTD. S. NO.10/P2, MORBI-HALVAD ROAD, OPP. UNCHI MANDAL, SANALA (TALAVIYA)	MORBI	PROPANE/ LPG	16.75
697	SAGAR DRUGS & PHARMACEUTICALS PVT. LTD., 38/3 & 46/1 KANBHA KUTIA ROAD SINGARWA, DIST. AHMADABAD GUJARAT	AHMEDABAD	ETHYLENE OXIDE	21.8
698	SAHAJAND CHEM INDUSTRIES PLOT-3100 PHASE-III,GIDC, CHHATRAL, GUJARAT	GANDHINAGAR	CHLORINE	10.8
699	SAHAKARI KHAND UDYOG MANDAL LTD. GANDEVI,NAVSARI-396360	NAVSARI	ETHYL ALCOHOL	1720 KL

700	SAIBABA SURFACTANTS PVT. LTD. BLOCK-708, VADSAR VILL. VADSAR-KALOL ROAD, GANDHINAGAR	GANDHINAGAR	ETHYLENE OXIDE	10
701	SAICON TILES PVT. LTD. NR. K.T. MILL, CHARADVA-MORBI ROAD, AT-CHARADVA, TAL-HALVAD, DIST-MORBI	MORBI	PROPANE	20 MT
702	SAIMAX CERAMIC PVT.LTD JETPAR ROAD, VILL:-RANGPAR, TAL:-MORBI, DIST:-MORBI	MORBI	PROPANE / LPG	12.55
703	SAINT GOBAIN GLASS INDIA LTD. PLOT NO. 36, GIDC, JHAGADIYA, DIST-BHARUCH	BHARUCH	LPG	210
704	SAIWIN CERAMIC PVT.LTD JETPAR ROAD, VILL:-RANGPAR, TAL:-MORBI, DIST:-MORBI	MORBI	PROPANE / LPG	12.55
705	COHIZON LIFE SCIENCES LTD. PLOT 5809/10, GIDC ANKLESHWAR BHARUCH	BHARUCH	CHLORINE HYDROGEN FLUORIDE HYDROGEN METHANOL	43.2 MT 28.8 MT 270 NOS. 12 KL
706	SAJJAN INDIA PVT. LTD. PLOT 6102-03/6117-19 GIDC ANKLESHWAR BHARUCH	BHARUCH	CHLORINE	14.4
707	SAMARPAN LAMINATE RAJPAR ROAD, DIST-MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL MELAMINE	35 MT 23 MT 21 MT 15 MT
708	SANARIYA CERAMIC LLP S.R.NO.935 P 1, P 2, P 3, P 4, AT - LAKHDIRPUR ROAD, VILL. GHUNTU, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	33.432
709	SANDHYA INDUSTRIAL CHEMICALS PLOT-2809/2810, SARIGAM VALSAD	VALSAD	CHLORINE	60
710	SANFORD VITRIFIED PVT LTD BEHIND SOLARIS CERAMIC, AT - SARTANPAR ROAD, VILL. SARTANPAR, TAL.WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	16.74
711	SANGHVI ORGANICS P. LTD. PLOT NO.3516, PHASE III GIDC PANOLI BHARUCH-400 028, GUJARAT	BHARUCH	CHLORINE	60
712	SANGINITA CHEMICAL PHASE-IV, CHHATRAL, TA-KALOL DIST-GANDHINAGAR	GANDHINAGAR	CHLORINE	36
713	SANJANA CRYOGENIC STORAGE LTD. P.O. DAHEJ BHARUCH, GUJARAT	BHARUCH	AMMONIA	10000 MT
714	SANTURO CERAMICS LLP S.R.NO.244 / P 1, 244 / P 2, AT - MATEL ROAD, 8-A N.H., VILL.LAKADDHAR, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	16.74
715	SANVIS CERAMIC PVT LTD S.R.NO.492 P / 2, NEAR KENAL, AT - JETPAR ROAD, VILL. JASMATGADH, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74

716	SARAS INDUSTRIES ADVANCE PETROCHEM, PIRANA ROAD, PIPELJ, AHMEDABAD	S.NO-62, BEHIND AHMEDABAD	AHMEDABAD	CHLORINE	18 MT
717	SARDAR PATEL CHEMICALS TALOD ROAD, BORVAI TAL. DHANSURA ARAVALLI		ARAVALLI	METHYL PARATHION PHORATE PHOSPAMIDON CHLOROPYRIPHOS	1 T 1T 1T 3KL
718	SARJU VITRIFIED PVT.LTD. S.R.NO. 149 P1/P2, 149 P2/P2, 150/1P1/P2, 150/2P1/P1, 150/ 1 P3, MORBI-HALVAD ROAD, VILL :- UNCHIMANDAL, TAL :- & DIST :- MORBI		MORBI	PROPANE/ LPG	16.75
719	SARNA CHEMICALS PVT.LTD UNIT-II 1708, PHASE-3 VAPI VALSAD		VALSAD	CHLORINE	12.6
720	SARTHANA WATER WORKS NR. SARTHANA OCTROI NAKA, SURAT		SURAT	CHLORINE	15 MT
721	SAVINO GRANITO PVT.LTD. SR.NO. 581/P2, & 582, OPP. GEB SUBSTATION, B/H. TELEPHONE EXCHANGE, JETPAR ROAD, AT. RANGPAR,TAL:-&DIST:-MORBI		MORBI	PROPANE / LPG	16.74
722	SAVITA INTERMEDIATES PVT. LTD. OPP. CAMBAY ORGANICS PVT. LTD. NR. VILLAGE-SOKHDA, TAL-KHAMBHAT, DIST-ANAND		ANAND	OLEUM 65%	30 MT
723	SAVITRA TILES PVT LTD S.R.NO.128/1, NR. AMRDHAM TEMPLE, MATEL ROAD, MATEL , DIST :- MORBI		MORBI	PROPANE / LPG	16.74
724	SAVLA CHEMICALS LTD. 26-A GIDC ESTATE PANOLI, DIST. BHARUCH BHARUCH-394 116 GUJARAT		BHARUCH	ISOBUTYLENE  METHYL TERTIARY BUTYL ETHER	180.6  2123.74
725	SCAEFFLER INDIA LIMITED PLOT NO 1, ALINDRA, SAVLI GIDC, TA-SAVLI, DIST- VADODARA		VADODARA	PROPANE METHANOL	16 MT 30 KL
726	SCHAEFFLER NIDIA LTD. MANEJA, TA-DIST- VADODARA		VADODARA	LPG  PROPANE	20
727	SCHOTT GLASS INDIA PVT.LT,VILLAGE-ANKHI, TA- JAMBUSHAR, DIST-BHARUCH		BHARUCH	LNG	90 MT
728	SCHOTT KAISHA PVT. LTD. PLOT NO. 1369, 1373, 1375, 1376, 1377, VILLAGE-ANAKHI, TAL-JAMBUSAR, DIST-BHARUCH		BHARUCH	LPG OXYGEN	15 MT 20 MT
729	SCOTTO TILES LLP S.R.NO.280 / 1 P 2 / P 1, 280 / 1 P 3, AT - JETPAR ROAD, VILL. BELA, TAL. & DIST. MORBI		MORBI	PROPANE/ LPG	16.75
730	SECOORA TILES LLP S.R.NO.92 / 1 / 1 / P, AT - MORBI - HALVAD ROAD, VILL. UNCHI MANDAL, TAL. & DIST. MORBI		MORBI	PROPANE/ LPG	19.91

731	SEGA CERAMICS PVT. LTD. 8-A NATIONAL HIGHWAY, VILL: DHUVA.	MORBI	PROPANE / LPG	19.99
732	SEGA GRANITO HALVAD ROAD, MORBI	MORBI	PROPANE	20 MT
733	SEGAM TILES PVT. LTD GALA ROAD, MORBI	MORBI	PROPANE	20 MT
734	SEKOL TILES LLP S.R.NO.17 P 2, 17 P 3, 18 P 1, 18 P 2, 18 P 3, AT - SARTANPAR ROAD, 8-A N.H., VILL.SARTANPAR, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE/ LPG	19.91
735	SELEO CERAMIC PVT LTD S.R.NO.298 P 2, 298 P 2 / P 1, AT - JETPAR ROAD, VILL. RANGPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
736	SENTO VITRIFIED LLP AT SARTANPAR ROAD, 8A, NATIONAL HIGHWAY, VILLAGE-SARTANPAR, TA-WANKANER, DIST-MORBI	MORBI	PROPANE	16 MT
737	SENTOSA GRANITO PVT LTD S.R.NO.168 P AND 169, AT - MATEL ROAD, 8-A N.H., VILL. LAKADDHAR, TAL. WANKANER, DIST. MORBI	MORBI	PROPANE/ LPG	16.74
738	SEPAL TILES PVT.LTD. SR.NO. - 85 & 86 / P 19, AT. SARTANPAR ROAD, MORBI	MORBI	PROPANE / LPG	16.74
739	SETMAX CERAMIC SR.NO.-121/P-7,AT.- SARTANPAR ROAD,TAL:WANKANER,DIST.MORBI	MORBI	PROPANE / LPG	16.74
740	SEVENZA CERAMIC S.R.NO.229/1/P1,233/P,AT- NAVAGAM ROAD, VILL :- LILAPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
741	SEZ VITRIFIED PVT.LTD. S.R. NO. 327 PAIKI 1 & 327 PAIKI 2 JETPAR ROAD, RANGPAR, MORBI	MORBI	PROPANE / LPG	16.74
742	SHALIGRAM LAMINATES PVT. LTD. A-104, KOTHARI INDUSTRIAL ESTATE, PO. BILSHWARPURA, CHHATRAL, TA-KALOL, DIST- GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE METHANOL PHENOL CAUSTIC SODA FLAKES HCL	20 MT 10 MT 20 MT 200 KG 70 KG
743	SHANTI INTERMEDIATES PVT.LTD PLOT NO-1001/9,III PHASE,GIDC, VAPI,VALSAD, GUJARAT	VALSAD	CHLORINE	10 TONNERS
744	SHARMA & CO. S.NO. 62, B/H ADVANCE PETRO CHEMICALS LTD, PIRANA ROAD, PIPLEJ,AHMEDABAD	AHMEDABAD	CHLORINE	27 MT
745	SHEELA FOAM LTD SURVEY NO. 3/P1, 4/P1 & 36, N.H.8, NR. BHILAD CHECK POST, VILLAGE-TALWADA-396105, TAL-UMBERGAON, DIST-VALSAD	VALSAD	TDI MDI	130 MT 40 MT
746	SHILPA CHEMICAL INDUSTRIES 4777 GIDC ANKLESHWAR-393 002 GUJARAT	BHARUCH	ETHYLENE OXIDE	7

747	SHIMER CHEMICAL P. LTD. MUJPUR, BLOCK NO. 338 PADRA VADODARA	VADODARA	CHLORINE	16
748	SHINEMICA LAMINATE PVT. LTD. NH - 8 A, HALVAD, DIST-MORBI	MORBI	METHANOL FORMALDEHYDE PHENOL MELAMINE	20 MT 20 MT 30 MT 10 MT
749	SHIP RECYCLING INDUSTRIES ASSOCIATION (INDIA) LPG BULK STORAGE CYLINDER FILLING PLANT ODIRKA, BHAVNAGAR GUJARAT	BHAVNAGAR	LPG	90
750	SHITAL CHEMICAL INDUSTRIES (UNIT-II) SR. NO. 443/P, VILLAGE-NEJA, KHAMBHAT, DIST-ANAND	ANAND	CHLORINE	50 MT
751	SHITAL CHEMICAL INDUSTRIES S.N. 194/1, SHOKHADA TAL. CAMBAY ANAND-388 620 GUJARAT	ANAND	CHLORINE	15
752	SHIV SHAKTI CERAMIC PVT. LTD., JETPAR ROAD NR. KAJARIYA SANITARY, NR. PAVDIYARI CANAL	MORBI	PROPANE / LPG	16.74
753	SHIVA PHARMACHEM LIMITED PLOT NO. Z/88 & Z/88/4, SEZ, PART-1, DAHEJ, TA-VAGRA, DIST-BHARUCH	BHARUCH	SO2 THIONYL CHLORIDE	26 MT 70 MT
754	SHIVA PHARMACHEM LTD, PLOT NO-588, LUNA-PADRA	VADODARA	sulphure dioxide	45
755	SHIVAM IN CORPORATION 521 GIDC PANOLI BHARUCH	BHARUCH	CHLORINE SO2 SO3	120 MT 100 MT 20 MT
756	SHRADDHA ASSOCIATES (GUJ) PVT LTD. AT VATDA, TA- BAYAD	ARAVALLI	ETHYLENE OXIDE	7 MT
757	SHREE NAKLANK LAMINATES NH 8/A, AT-JAMBUDIA, RAFALESHWAR, DIST-MORBI	MORBI	FORMALDEHYDE PHENOL METHANOL	25 MT 10 MT 50 MT
758	SHREE PETROCHEMICAL S.R.NO.1261, AT-MALIYA TO HALVAD ROAD, VILL- KHAKHARECHI, TAL-MALIYA, DIST-MORBI	MORBI	FORMALDEHYDE STYRENE	50 MT 25 MT
759	SHREE RAM TRADING CO. PLOT NO. 20, BETWEEN CHIRAI AND PADANA, VILLAGE- CHIRAI, DIST-KUTCH	KUTCH	BROMINE CHLORINE	6 MT 40 MT
760	SHREE SAYAN VIBHAG KHAND UDYOG SAHAKARI MANDALI LTD. SAYAN SURAT-394 130 GUJARAT	SURAT	ETHENOL	1680

761	SHREE SULPHURIC LTD. 2801, GIDC, ANKLESHWAR DIST. BHARUCH GUJARAT	BHARUCH	OLEUM(SULPHAR TRIOXIDE)	172
762	SHREE VALLABH CHEMICAL. POST. AHMADPURS DEHGAM GANDHI NAGAR-382 315 GUJARAT	GANDHINAGAR	ETHYLENE OXIDE	7.5
763	SHREE VALLABH CHEMICALS SURVEY NO. 703/P0/1, VILLAGE-KANERA, MALARPUR- KASHIPURA ROAD, TAL-KHEDA,DIST-KHEDA	KHEDA	ETHYLENE OXIDE	15 KL
764	SHREEJI CERAMIC INDUSTRIES 8-A NATIONAL HIGHWAY, AT - LALPAR, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	19.91
765	SHREEJI VITRIFIED PVT.LTD. 8-A NATIONAL HIGHWAY, LALPAR, MORBI	MORBI	PROPANE/ LPG	19.71
766	SHREEJIWORLD CERAMIC LLP S.R. NO:-648,649 P1,649 P2, NATIONAL HIGHWAY 8- A,LAKHDHIRPUR ROAD,	MORBI	PROPANE/ LPG	19.71
767	SHREEM VITRIFIED PVT LTD 8-A NATIONAL HIGHWAY, LAKHDHIRPUR ROAD, VILL.LAKHDHIRPUR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
768	SHRI CHALTHAN VIBHAGKHANDUDYOG SAHAKARI MANDAL LTD CHALTHAN DIST. SURAT GUJARAT	SURAT	ETHYL ALCOHOL  HYDROGEN	12000  35
769	SHRI GANESH KHAND UDHYOG SAHKARI MANDALI LTD. VATARIA, VALIA	BHARUCH	INDUSTRIAL ALCOHOL ETHANOL	1193 KL 1190 KL
770	SHRI KAMREJ VIBHAG KHAND UDYOG SAHKARI MANDALI LTD AT-NAVI PARDI,TA-KAMREJ, DIST-SURAT	SURAT	ETHYLE ALCOHOL	1350 MT
771	SHRI KHEDUT SAHAKARI KHAND UDHYOG MANDALI LTD. AT POST PANDVAI, TA-HANSOT, DIST-BHARUCH	BHARUCH	ALCOHOL ETHANOL	1193 KL 1190 KL
772	SHRI MADHI VIBHAG KHAND UDYOG SAHKARI MANDALI LTD. AT-MADHI,TA-BARDOLI, DIST-SURAT	SURAT	ETHYLE ALCOHOL	3182 MT
773	SHRI MAHUA VIBHAG KHAND UDYOG SAHKARI MANDALI LTD. AT-BAMANIA,TA-BARDOLI, DIST-SURAT	SURAT	ETHYLE ALCOHOL	1000 MT
774	SHRI SAIRAJ ENTERPRISE SR. NO. 82/P2, PLOT NO. 13 TO 16, BHUNAVA, TA- GONDAL, DIST-RAJKOT	RAJKOT	FORMALDEHYDE PHENOL	40 MT 30 MT

775	SHRIRAM ALKALI & CHEMICALS (A UNIT OF DCM SHRIRAM CONSOLIDATED LTD.) 749 GIDC INDL. ESTATE, JHAGADIA BHARUCH-393 110 GUJARAT	BHARUCH	CHLORINE	1300 MT
776	SHV ENERGY LPG INFRASTRUCTURE PVT. LTD. NR. JAWAR VILLAGE P.O. 50, PORBANDAR 360 575 GUJARAT	PORBANDAR	LPG	7934
777	SHV ENERGY NORTH WEST INDIA LTD. LPG FILLING PLANT RANESAR, PATIA KALYANGADH GUJARAT	AHMEDABAD	FLAMMABLE GASES	474
778	SHV ENERGY NORTHWEST INDIA PVT LTD. PLOT NO. 12 GIDC GRANITE ZONE AMRELI GUJARAT	AMRELI	LPG	120
779	SHYAM CHEMICALS PLOT NO. 6004, GIDC ANKLESHWAR BHARUCH	BHARUCH	CHLORINE	900 MT
780	SIDDHI SAMRAT DYE-CHEM PVT. LTD. PL.NO.6450, GIDC ESTATE, ANKLESHWAR ANKLESHWAR-393 002 GUJARAT	BHARUCH	ETHYLENE OXIDE	8 MT
781	SIKKA PORTS & TERMINALS LIMITED, NANI KHAVDI, JAMNAGAR-361140	JAMNAGAR	DIESEL NAPHTHA GASOLINE CRUDE ALKYLATE	564564 359046 511283 1435152 75299
782	SILK TOUCH VITRIFIED PVT. LTD. Orson Ceramic Zone, Lakhdirpur Road, MORBI	MORBI	PROPANE / LPG	16.74
783	SILON GRANITO LLP S.R.NO.14 P 1, 14 P 2, 15 P 1, 15 P 2, 15 P 3, AT - SARTANPAR ROAD, 8-A NATIONAL HIGHWAY, VILL. SARTANPAR, TAL. WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	16.74
784	SIMALIN CHEMICAL INDUSTRIES PVT LTD 13-GIDC NANDESARI, DIST-VADODARA	VADODARA	FORMALDEHYDE METHANOL AMMONIA	1450 MT 1500 MT 15 MT
785	SIMERO INTERNATIONAL LLP SURVEY NO. NICHU MANDAL 184/1,184/2P1,216P1, SURVEY NO. UNCHI MANDAL 108/P1/P1/P2,108P1/P2/P2,108/P1/P3/P2,108P2/P2, MORBI HALVAD HIGHWAY, AT :- NICHU MANDAL & UNCHI MANDAL, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
786	SIMERO VITRIFIED PVT LTD S. NO.22, MORBI-HALVAD ROAD, NICHU MANDAL	MORBI	PROPANE / LPG	16.74

787	SIMOLEX CERAMIC PVT. LTD., Suvery No. 130/paiki 1/2 130/paiki2,AtMakansar,TAL:-& DIST:-MORBI	MORBI	PROPANE / LPG	16.75
788	SIMONZA TILES LLP SUR NO-168/1, 168/2P-1, 168/2P-2, 169/2, OPP. AMARNATH POWER HOUSE AND SONY CERAMICS, MORBI	MORBI	PROPANE / LPG	48.59
789	SIMORA TILES LLP S.R.NO.144 / 2 P - 15, 144 / P - 15 - 3 & 144 / 1 P - 15, 8-A N.H., PANELI ROAD, RAFALESHWAR TAL :- & DIST :- MORBI	MORBI	PROPANE/ LPG	49.98
790	SIMPOLO VITRIFIED PVT. LTD. OLD GHUNTU ROAD, MORBI	MORBI	PROPANE	40 MT
791	SINOX GRANITO LLP SUR NO-122/2, 128/2/4P2, 128/3/1P1, 128/3/2P1, 128/3/2P2, 128/3/2P3, andara Morbi	MORBI	PROPANE/ LPG	16.74
792	SIRIUM CERAMIC PVT. LTD. S.R.NO. 574 P-1/P-2, JETPAR ROAD, RANGPAR, TAL & DIST-MORBI	MORBI	PROPANE	16.72 MT
793	SISAM CERAMICS PVT. LTD., B/H Satnam Cera Decorators, 8-A National Highway, At. Lalpar,DIST :- MORBI	MORBI	PROPANE / LPG	16.74
794	SISAM GRANITO LLP AT- JETPAR ROAD, VIL-BELA, TA-MORBI, DIST-MORBI	MORBI	PROPANE	41 MT
795	SISCON TILES LLP S.R.NO.142, 143 / P 1, 143 / P 1, (UNIT-1), AT - SARTANPAR ROAD, 8-A N.H., VILL.RATAVIRDA, TAL.WANKANER, DIST.MORBI	MORBI	PROPANE/ LPG	41.89
796	SIYARAM GRANITO PVT. LTD. SURVEY NO. 282, JETPAR RAOD, AT-JIVAPAR - 363630 MORBI	MORBI	LPG	16.7 MT
797	SIYARAM VITRIFIED PVT. LTD. 8-A, NATIONAL HIGHWAY, NAVA JAMBUDIA ROAD, AT- JAMBUDIA, MORBI	MORBI	LPG	16 MT
798	SKAJEN VITRIFIED PVT.LTD. S.R.NO. 18 P-1-P2, 19 P-2, 20 P-2, 21 P-2, JETPAR ROAD, DIST:- MORBI	MORBI	PROPANE / LPG	16.74
799	SKY CERAMIC PVT. LTD. S.NO.94-1/P-1 & 94/1-P, 8-A NATIONOMAL HIGHWAY, AT: MAKANSAR, B/H.EXCEL CERAMIC. DIST-MORBI	MORBI	PROPANE / LPG	16.74
800	SKYTOUCH CERAMIC PVT LTD S.R.NO.533 / P 1, NEAR PAVADIYARI CANAL, AT - SHAPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.66
801	SLIM TILE PVT.LTD S.R.NO:- 11/1,11/2,11/3,11/4,12/1,12/2P12,12/2P2,12/2P3,SARTA NPAR ROAD, AT:-SATANPAR,	MORBI	PROPANE / LPG	100
802	SNF FLOPAM INDIA PVT. LTD SURVEY NO. 139/1, 141/2, 142/1, VILLAGE-VARSANA, TA- ANJAR, DIST-KUTCH SURVEY NO. 147/1, 143/1, 138/1 OF VILLAGE-PADANA, TAL-GANDHIDHAM, DIST-KUTCH	KUTCH	ACRYLONITRILE	52 KL

803	SOCUTE TILES LLP SURVEY NO :- 149P1/149P2, AT:- SARTANPAR ROAD, 8A NATIONAL HIGHWAY, AT:- SARTANPAR, TAL:- WANKANER, DIST :- MORBI.	MORBI	PROPANE / LPG	16.74
804	SOLARIS CERAMICS PRIVATE LIMITED 8-A NATIONAL HIGHWAY, VILL: SARTANPAR	MORBI	PROPANE / LPG	41.89
805	SOLARIS CHEMTECH LIMITED SURVEY NO-164 RATADIA,NR.KHAVDA, BHUUJ	KUTCH	BROMINE CHLORINE	180 TON 90 TON
806	SOLARIUM CERAMIC PVT. LTD. JETPUR ROAD, VILL-JASMATGADH, TA-DIST-MORBI	MORBI	PROPANE / LPG	16.66 MT
807	SOLENTA CERAMIC LLP S.R.NO.597 P 1 / P 1 / P 3, AT - JETPAR ROAD, VILL :- RANGPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
808	SOLO CERAMIC SR.NO. 142/P. 8-A, NATIONAL HIGHWAY,VILL- LALPAR,TAL:-& DIST :- MORBI	MORBI	PROPANE / LPG	19.99
809	SOLVAY SPECIALITIES INDIA PVT. LTD. HIGH PERFORMANCE POLYMER MANUFACTURING INDIA PVT. LTD. PLOT NO. 3526-27, GIDC, PANOLI, TAL- ANKLESHWAR, DIST-BHARUCH	BHARUCH	SULPHUR TRIOXIDE (SO3)	36.3 MT
810	SOMANY FINE VITRIFIED PVT. LTD. 8-A, NATIONAL HIGHWAY, SARTANPAR-MATEL ROAD, AT- MATEL, TA-WANKANER, DIST-MORBI-363621	MORBI	PROPANE	16.74 MT
811	SONET SANITARYWARES R.S. NO.138,139 & 159, 8-A NATIONAL HIGHWAY, VILL:- LALPAR,TAL:-&DIST:-MORBI	MORBI	PROPANE / LPG	19.99
812	SONEX VITRIFIED LLP. Sr.No. 322/P-1, 322/P-2, 322/P-4 & 324/2/P-2, Vill. Andarna, Morbi - 363642 Gujarat(INDIA)	MORBI	PROPANE/ LPG	24.29
813	SORISO CERAMIC PVT. LTD. 8-A NATIONAL HIGHWAY, LAKHDHIRPUR ROAD, MORBI- 363642	MORBI	PROPANE/ LPG	50
814	SPARRON VITRIFIED LLP S.R.NO.87 / 1 P 1, 87 / 1 P 2 P 2, 87 / 1 P 3 P 2, 87 / 2 P 2, 87 / 3 P 1 P 2, 87 / 3 P 2 P 2, AT - HALVAD ROAD, VILL. UNCHI MANDAL, TAL. & DIST. MORBI	MORBI	PROPANE/ LPG	16.74
815	SPARTEN GRANITO PVT. LTD. SURVEY NO. 277, B/H SIYARAM GRANITO, JETPAR ROAD, NR. RANGPAR VILLAGE, JIVAPAR, MORBI	MORBI	LPG	16.7 MT
816	SPECTRUM DYES & CHEMICALS (P) LTD. BLOCK NO. B-503, NH NO. 08 PALSANA SURAT GUJARAT	SURAT	ETHYLENE OXIDE	14 MT
817	SPECTRUM JOHNSON TILES PVT LTD (UNIT-3) SURVEY NO-175(P)2,3,4 & 176(P) 2 & 185 (P) 1 & 2, AT- MATEL ROAD , OPP-AMARDHAM ASHRAM, BEHIND- ACECON VITRIFIED MATEL, MORBI	MORBI	PROPANE / LPG	50

818	SPENCERA CERAMICA LLP SR.NO.- 77 / 1 P 1, 77 / 1 P 3, 77 / 1 P 4, AT.- MORBI TO HALVAD ROAD, VILL:- GHUNTU, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE/ LPG	49.98
819	SPENZEN CERAMIC PVT LTD S.R.NO.455, OPP. KAJARIYA SANITARY WARES, PAVADIYARI, JETPAR ROAD, VILL :- SHAPAR, MORBI	MORBI	PROPANE / LPG	16.74
820	SPINORA TILES PVT.LTD. S.R.NO. 179 / P1, 180 / P2 RATAVIRDA, SARTANPAR ROAD	MORBI	PROPANE/ LPG	16.74
821	SRF LIMITED D-2/1, GIDC, PHASE-2, PCPIR, DAHEJ INDUSTRIAL AREA, BHARUCH-392130	BHARUCH	CHLORINE METHANOL ETHANOL BROMINE ACETONITRILE ETHYLENE DICHLORIDE HYDROCHLORIC ACID	441.2 MT 37 MT 45 MT 40 MT 50 MT 558 MT 1050 MT
822	STERLING AUXILIARIES PVT.LTD. PLOT NO.12/A-2,GIDC, VILLAGE-DAHEJ GUJARAT	BHARUCH	ETHYLENE OXIDE PROPYLENE OXIDE	70 MT 20 MT
823	STRAWBERRY CERAMIC PVT LTD S.R.NO.476, AT - JETPAR ROAD, SAPAR, DIST-MORBI	MORBI	PROPANE / LPG	16.74
824	STYRENIX PERFORMANCE MATERIALS LIMITED PLOT NO 51, GIDC, NANDESARI VADODARA	VADODARA	ACRYLONITRILE	202
825	STYROLUTION ABS (I) PVT. LTD (SAN DIVISION) VILLAGE KATOL TALUKA KALOL PANCHMAHAL GUJARAT	PANCHMAHAL	ACRYLONITRILE	460 KL
826	STYROLUTION INDIA PVT. LTD. DAHEJ VAGHRA TALUKA BHARUCH GUJARAT	BHARUCH	STYRENE MONOMER  VERY HIGHLY FLAMMABLE LIQUIDS	2000  4700
827	SUKHA CHEMICAL INDUSTRIES PLOT NO.-4705/1/6, NR.MEGHMANI CHOKDI, GIDC ANKLESHWAR DIST-BHARUCH	BHARUCH	CHLORINE	24 tonner
828	SULESHVARI HEALTHCARE PLOT NO.2806/C, GIDC ANKLESHWAR, DIST-BHARUCH	BHARUCH	CHLORINE HYDROGEN	12.60 MT 1400 M <sup>3</sup>
829	SUMITOMO CHEMICAL INDIA LTD. 6/2, RUVAPARI ROAD, BHAVNAGAR GUJARAT	BHAVNAGAR	EPN	30
830	SUNCHLORIDE PVT. LTD. 603, GIDC PANOLI BHARUCH	BHARUCH	CHLORINE	27

831	SUNCORE TILES PVT LTD S.R.NO.242 / P 1, 242 / P 2, 242 / P 3, 242, AT - MATEL ROAD, 8-A N.H., VILL :- LAKADDHAR, TAL :- WANKANER, DIST :- MORBI	MORBI	PROPANE/ LPG	16.75
832	SUNFIRE PETROCHEM LTD. VADIA GHANGHALI SHIHOR BHAVNAGAR	BHAVNAGAR	LPG	60 MT
833	SUNFLORA VITRIFIED PVT LTD S.R.NO.145 / P 2, 146 / P 1, AT - MATEL ROAD, VILL. MATEL, TAL. WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	16.74
834	SUNGLOSS CERAMIC INDUSTRIES 8-A NATIONAL HIGHWAY, AT. LALPAR, MORBI	MORBI	PROPANE / LPG	16.74
835	SUNGRACIA TILES PVT. LTD. S.R.NO.141 P, 143 / P 1 P, 145 P, 146 / P 2 P, AT - 8-A N.H., VILL.MATEL, TAL.WANKANER	MORBI	PROPANE / LPG	16.72
836	SUNMARK CERAMIC JETPAR ROAD, RANGPAR, TA-DIST-MORBI	MORBI	PROPANE	16.74 MT
837	SUNMARK CERAMIC SR.NO.-404P1/P1,AT.-JETPAR ROAD. TAL :- & DIST : MORBI	MORBI	PROPANE / LPG	16.74
838	SUNPARK GRANITO PVT. LTD. S.R.NO. 144/1 P1, 144/2, 199 -P1 & P2, 200/2, 200/3,AT - MATEL ROAD, 8-A N.H.,MORBI	MORBI	PROPANE / LPG	16.66
839	SUNQURO CERAMIC PVT LTD S.R.NO.554 P 3 P 2, 554 P 4, AT - KHOKHRA HANUMAN TEMPLE, VILL.BELA, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
840	SUNRAJ CERAMIC PVT. LTD. 8-A NATIONAL HIGHWAY, LAKADDHAR. DIST:- MORBI	MORBI	PROPANE / LPG	16.74
841	SUNRAY TILES PVT LTD 8-A NATIONAL HIGHWAY, MATEL ROAD, AT - DHUVA TAL. WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	16.74
842	SUNSHINE TILES COMPANY PRIVATE 8-A NATIONAL HIGHWAY, VILL: DHUVA. DIST-MORBI	MORBI	PROPANE / LPG	48.88
843	SUNWORLD VITRIFIED PVT. LTD. GHUNTU ROAD, NEAR SUNGOLD CERAMIC, MORBI-2	MORBI	PROPANE / LPG	16.74
844	SUPER INDUSTRIES C-1/289, GIDC NARODA AHMEDABAD GUJARAT	AHMEDABAD	PARATHION  PHORATE	0.4  4.5
845	SUPERGRES CERAMIC LLP SR NO:-- 497, AT:--JETPAR ROAD,VILL:--JASMATGADH, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
846	SUPERGRES TILES LLP S.R.NO.269 P - 3, AT -JETPAR ROAD, VILL :- RANGPAR, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	16.74
847	SUPERIOR CERAMICA ORSUN CERAMIC ZONE, LAKHDIRPUR ROAD, 8-A NATIONAL HIGHWAY, GHUNTU. DIST :- MORBI	MORBI	PROPANE / LPG	16.74
848	SUZUKI MOTORS GUJARAT PVT. LTD. BLOCK NO. 334-335, HANSALPUR, VILLAGE-BECHARAJI, TA-MANDAL, DIST-AHMEDABAD	AHMEDABAD	PROPANE	60 MT

849	SWASTIK OIL PRODUCT MFG. COMPANY VILL. UAN P.O. khadsupa, NAVSARI GUJARAT	NAVSARI	ETHYLENE OXIDE	15
850	SWATI CHLORIDE PVT LTD 99/1B, GIDC NANDESARI VADODARA GUJARAT	VADODARA	CHLORINE	60
851	SWELL GRANITO LLP S.R.NO:-159/P2,165/1P-2P, 8-A NATIONAL HIGHWAY SARTANPAR ROAD,	MORBI	PROPANE / LPG	19.99
852	SWIDAN CERAMIC SR.NO:-105 /1 P-1 & 105 /1 P- 5 , B/H JAMBUDIYA VILLAGE, 8-A NATIONAL HIGHWAY,VILL:-JAMBUDIYA.	MORBI	PROPANE/ LPG	19.91
853	SWIZZER CERAMIC PVT LTD 8 - A NATIONAL HIGHWAY, LAKHDHIRPUR ROAD, VILL. GHUNTU, TAL :- &, DIST :- MORBI	MORBI	PROPANE / LPG	16.66
854	SYMBOSA GRANITO PVT. LTD. S. NO.125 PAIKI 1, MATEL ROAD, AT:-MATEL	MORBI	PROPANE / LPG	39.98
855	T.M.L.INDUSTRIES LTD KARAKHADI, TAL, PADRA VADODARA GUJARAT	VADODARA	CHLORINE	72
856	TATA AUTOCOMP SYSTEM LTD, PLOTNO-2, TATA MOTOR VENDOR PARK, TA-SANAND,DIST-AHMEDABAD	AHMEDABAD	LPG	20 MT
857	TATA CHEMICALS LTD. MITHAPUR DEVBHUMI DWARKA GUJARAT	DEVBHUMI DWARKA	AMMONIA  CHLORINE BROMINE	130  228 40
858	TATA MOTORS LTD. REVENUE SURVEY NO-1, MATODA,VILL-NORTHKOTPURA, SANAND,	AHMEDABAD	PROPANE	300 MT
859	THERMAX LIMITED PLOT NO. 21/1/2/3, GIDC, MANJUSAR, TA-SAVALI, DIST- VADODARA	VADODARA	PROPANE	39.8
860	TIPCO INDUSTRIES LIMITED DHARAMPUR CROSS ROAD, N.H. NO.8, ABRAMA, VALSAD-396001	VALSAD	PHENOL FORMALDEHYDE	30 KL 30 KL
861	TIRTH AGRO TECHNOLOGY PVT. LTD. (UNIT-2) SURVEY NO. 85/1P, NR. BHARUDI TOLL PLAZA, HADAMTALA, TA-KOTDA SANGANI, DIST-RAJKOT-360311	RAJKOT	LPG	20 MT
862	TIRUPATI FOAM LTD. PLOT NO 4-A, BLOCK NO 65, VILLAGE-KHATRAJ, TAL- KALOL, DIST-GANDHINAGAR	GANDHINAGAR	Toluene di-isocynate (TDI)	790 4140
863	TML LTD. VILLAGE PILODRA JAMBUSAR BHARUCH GUJARAT	BHARUCH	ACRYLONITRILE CHLORINE	200 54
864	TOCCO CERAMIC PVT LTD 8-A NATIONAL HIGHWAY, SARTANPAR ROAD, VILL. SARTANPAR, TAL:-WANKANER DIST:- MORBI	MORBI	PROPANE / LPG	41.89

865	TORRENT GAS PVT. LTD. PLOT NO. 2,3 & 4, SURVEY NO.138/P2/P2, NR. KHAMDHROL CHOWKDI, JUNAGAGH BYPASS ROAD, VILL- SARGAVADA, TAL-JUNAGADH, DIST-JUNAGADH-362001	JUNAGADH	CNG DIESEL LIQUIFIED NATURAL GAS	1555 KG 376 KG 42 MT
866	TORRINO TILES LLP S.R.NO.141 / P 1 / P 1, 141 / P 2 / P 1, 141 / P 3 / P 1, AT - SARTANPAR ROAD, 8-A N.H., VILL. RATAVIRDA, TAL.WANKANER, DIST. MORBI	MORBI	PROPANE/ LPG	16.74
867	TRANSPEK INDUSTRY LTD. AT & PO EKALBARA TAL. PADRA, BARODA' GUJARAT	VADODARA	CHLORINE  SULPHUR DIOXIDE SULPHUR DICHLORIDE	50  55 12
868	TRANSPEK SILOX IND. LTD. AT & POST: EKALBARA PADRA VADODARA	VADODARA	SULPHAR DIOXIDE	21 MT
869	TRANSPEK SILOX INDUSTRIES LTD. KALOLI ROAD, ATLADARA VADODARA-390012 GUJARAT	VADODARA	SULPHUR DIOXIDE  OLEUM (SULPHUR TRIOXIDE)	18  33
870	TREND INDIA PLOT NO. K1-21 & K2-22, GIDC, KALOL , TA-KALOL, DIST- GANDHINAGAR	GANDHINAGAR	OLEUM	60 MT
871	TRIDEV RESINS INDIA PVT LTD. PLOT NO. E-1/136, 2ND PHASE, GIDC, VAPI, DIST-VALSAD	VALSAD	FORMALDEHYDE	15000 MT
872	TRION CHEMICALS PVT LTD. SURVEY NO 382, VILLAGE-NEJA, TA-KHAMBHAT, DIST- ANAND	ANAND	CHLORINE CYANURIC ACID	54 MT 20 MT
873	TRISTAR INTERNATIONAL PVT. LTD. 3201/2, GIDC SARIGAM VALSAD	VALSAD	ETHYLENE OXIDE	7.5
874	U-CON CERAMICA LLP Sr. NO. 345 P1 TO P3, B/h. VENTO CERAMIC, MORBI- JETPAR ROAD, Nr. BELA VILLAGE,	MORBI	PROPANE / LPG	16.74
875	UMIYA AGRO PLOT - 1218 GIDC CHHATRAL KALOL	GANDHINAGAR	FENVELRATE MONOCROTOPHOS & METHYLPARATHION	2      2 2
876	UNIFORM SYNTHETICS PVT. LTD. PLOT NO. 1675, AT-GIDC SARIGAM, TAL-UMARGAM, DIST-VALSAD	VALSAD	FORMALDEHYDE CYCLOHEXANONE	32 MT 28 MT
877	UNITED PHOSPHOROUS LTD UNIT-5. 750 GIDC INDL. ESTATE JHAGADIA BHARUCH-393 110 GUJARAT	BHARUCH	CHLORINE  CARBON DISULPHIDE ETYLENE OXIDE ACRYLONITRILE	307  1500    11.6 30

878	UNITED PHOSPHOROUS PVT. LTD. (UNIT NO.2), 3405/3406, G.I.D.C. ANKALESHWAR DIST. BHARUCH GUJARAT	BHARUCH	TER. BUTYL MERCAPTON PHORATE	40 KL
879	UNITED PHOSPHORUS LTD. UNIT-1 117, GIDC, ANKLESHWAR DIST. BHARUCH GUJARAT	BHARUCH	CHLORINE CARBON DISULPHIDE METHANOL TOLUENE METHYLECHLORIDE	20 32 100 KL 25 25 MT
880	UNITED PHOSPHORUS LTD. 3-II, GIDC, VAPI DIST. VALSAD GUJARAT	VALSAD	CHLORINE	24.3
881	UNITOP CHEMICALS PRIVATE LIMITED SURFACTANT MANUFACTURING PLOT NO.D-2/CH-343, GIDC, PHASE-2, NR. VILLAGE JOLWA, BHARUCH DAHEJ HIGHWAY, DAHEJ, DIST- BHARUCH	BHARUCH	ETHYLENE OXIDE PROPYLENE OXIDE	28.60 MT 26 MT
882	URO INDIA CYLINDERS LTD. 588/617, EXTENDED AREA, KSEZ, GANDHIDHAM	KUTCH	LPG	30
883	V TILES PORSELANO JETPAR ROAD, VILL:- SAPAR, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE/ LPG	49.98
884	VALENCIA CERAMIC PVT LTD, SR NO:- 298/P-1, AT:- JETPAR ROAD, VILL:- RANGPAR., DIST:- MORBI	MORBI	PROPANE / LPG	16.74
885	VALIANT CHEMICAL 2906, GIDC, SARIGAM DIST. VALSAD GUJARAT	VALSAD	CHLORINE	23.4
886	VARACHHA WATER WORKS OPP. CNG GAS STATION, VARACHHA, SURAT-395006	SURAT	CHLORINE	11 MT
887	VARDHMAN ACRYLICS LTD. 755 GIDC MEGA ESTATE JHAGHADIA, DIST. BHARUCH 393 110, GUJARAT	BHARUCH	ACRYLONITRILE  SODIUM CHLORATE VINYLE ACETATE MONOMER	2000  50 340
888	VE -7 CERAMIC S.R.NO.411, AT - JETPAR ROAD, RANGPAR	MORBI	PROPANE / LPG	16.74
889	VEDANTA LIMITED VILLAGE - BHOGAT, TAL-KALYANPUR, BHATIYA ROAD, DIST-DEVBHUMIDWARKA	DEVBHUMI DWARKA	PETROLEUM CLASS-A CLASS-B CLASS-C CRUDE OIL	89000 KL 1000 KL 317000 KL 357000 KL
890	VELBON VITRIFIED LLP. S.R.NO. 167/1P1, 167/1P2, 167/1P3, MORBI - HALVAD ROAD, UNCHI MANDAL, DIST:- MORBI	MORBI	PROPANE / LPG	49.98
891	VELLOZA GRANITO LLP SR. NO.- 185 P2/P1, AT.- KHOHARA HANUMAN ROAD, 8A NATIONAL HIGHWAY, VILL:- KERALA, TAL:- MORBI, DIST:- MORBI	MORBI	PROPANE / LPG	25.11

892	VELSAA VITRIFIED LLP S.R.NO. 26 P/1, P1, 26 P/2, 25 P/2, 8-A.NATIONAL HIGHWAY, VILL:- JAMBUDIYA, TAL :- & DIST :- MORBI	MORBI	PROPANE/ LPG	41.89
893	VELSONS RESIN PVT. LTD. SURVEY NO. 497, DEHGAM KAPADVANJI ROAD, AT- CHISKARI, TAL-DEHGAM, DIST-GANDHINAGAR	GANDHINAGAR	FORMALDEHYDE METHANOL PHENOL	30 MT 40 MT 30 MT
894	VELZONE GRANITO LLP KERALA VILLAGE SR.NO.- 185 P 2 / P 2, 186 P 1, 186 P 2, HARIPAR VILLAGE SR.NO.- 228 P 1, 228 P 2,AT.- 8A NATIONAL HIGHWAY, KHOKHARA HANUMAN ROAD, VILL.:- KERALA & HARIPAR, TAL.:- & DIST.:- MORBI	MORBI	PROPANE / LPG	49.98
895	VENICE CERAMICS SR.NO. 97/P-1, 97/P-2, 8-A, NATIONAL HIGHWAY VILLAGE-MAKANSAR, TAL-MORBI, DIST-MORBI	MORBI	PROPANE	16.74 MT
896	VENSON ENERGY PRIVATE LIMITED S.R. NO :-406,AGABHI-PIPALIYA ROAD,	MORBI	PROPANE / LPG	50
897	VENTOFOAM PVT LTD, S.NO-152/5, OPP. MESARIYA BUS STOP, RANGPAR-MORBI ROAD, TA-VANKANER,DIST- MORBI	MORBI	LPG	20 MT
898	VERITAS GRANITO LLP S.R.NO.76/1P1, 76/1P2, 76/1P3, 76/1P1/P1, 76/1P4/P1, 76/1P4/P2, AT - MORBI - HALVADROAD, VILL :- UNCHI MANDAL, TAL :- & DIST :- MORBI	MORBI	PROPANE / LPG	49.85
899	VERTELLUS SPECIALTY MATERIALS IND.PVT.LTD, PLOT NO-287/1, 2A, PHASE-2, GIDC VAPI	VALSAD	SULPHUR TRIOXIDE (SO3)	42.5 MT
900	VICON CERAMIC PVT. LTD., NEAR GSPC AUTO PUMP JETPAR ROAD AT : BELA, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
901	VIDEOCON INDIA LIMITED VILLAGE CHAVAJ DIST. BHARUCH 392 002 GUJARAT	BHARUCH	LPG	280
902	VINTAGE TILES PVT. LTD. VILLAGE-BHADYAD, TA-DIST-MORBI	MORBI	PROPANE	41.89 MT
903	VISWAAT CHEMICALS LIMITED PLOT NO. D-3/10, GIDC PHASE-3, DAHEJ GIDC, BHARUCH	BHARUCH	ETHYLENE OXIDE PROPYLENE OXIDE	19.9 KL 30 KL
904	VIVANTA CERAMIC PVT. LTD At. Bela, Jetpar Road.	MORBI	PROPANE/ LPG	15
905	VIVIANA VITRIFIED PVT.LTD. S.R.NO. 515 P-2, 515 P-4, 8-A.N.H, JETPAR ROAD MORBI	MORBI	PROPANE/ LPG	16.75
906	VOLENTO CERAMIC S.R.NO.146 / 1 P 1 / P 1, 146 / 1 P 1 / P 2, & 146 / 1 P 2, 146 / 1 P 3, AT - JETPAR ROAD, VILL.PIPALI, TAL. & DIST.MORBI	MORBI	PROPANE / LPG	16.75
907	WALLCERA TILES PVT. LTD. NR. PAVADIYARI STATION, OPP. KAJARIA SANITARYWARE, PIPLI-JETPAR ROAD, AT-JASMATGADH, DIST-MORBI- 363630	MORBI	PROPANE	20 MT
908	WALLMARK CERAMIC INDUSTRY SR.NO :- 270P1/P2,270P2/P2,270P3/P2,270P4/P2,274P1/P1, JETPAR ROAD AT RANGPAR, DIST MORBI	MORBI	PROPANE/ LPG	16.74

909	WANKSONS CHEMICAL INDUSTRIES PVT. LTD. PLOT NO. 518, GIDC PANOLI TAL. ANKLESHWAR, BHARUCH	BHARUCH	CHLORINE	56.8
910	WELCOME TILES PVT.LTD., S.NO. 297 MORBI-JETPAR ROAD AT : RANGPAR	MORBI	PROPANE/ LPG	16.74
911	WELMICA LAMINATES PVT LTD. OLD RATALESHWAR ROAD, BHADIYAD, MORBI	MORBI	PHENOL METHANOL FORMALDEHYDE	90 MT 90 MT 90 MT
912	WELSPUN CORP LIMITED VILL-VARSHAMEDI, TA-ANJAR, DIST-KUTCH	KUTCH	LPG	150 MT
913	WELSPUN INDIA LTD.. VILLAGE-VARSHAMEDI TA-ANJAR, GUJARAT	KUTCH	LPG	90 MT
914	WELWIN LAMINATES LLP R.S.NO.745/P1, 787, 788, NEAR NANA DHANLA PATIYA, HALVAD-MALIYA ROAD, AT:-SUSVAV. TAL:-HALVAD, DIST:- MORBI.	MORBI	FORMALDEHYDE	60
915	WINDSON CHEMICAL PVT. LTD. BLOCK NO. 1834/P1 & P2, CHIKHLI VANSDA ROAD, OPP. KHODIYAR QUARRY, AT & POST-ALIPORE-396409	NAVSARI	FORMALDEHYDE PHENOL METHANOL	800 KL 100 KL 795 KL
916	WINTOUCH CERAMIC SARTANPUR ROAD, VILL-RATAVIRDA, TAL-VANKANER, DIST-MORBI	MORBI	PROPANE / LPG	16.74 MT
917	XPERT CERAMIC 8-A NATIONAL HIGHWAY, NAVA JAMBUDIYA, MORBI- 363642	MORBI	PROPANE / LPG	19.99
918	YASHASHVI RASAYAN PVT. LTD. PLOT NO. Z/96/E, SEZ-II, TAL-VAGRA, DAHEJ, DIST- BHARUCH	BHARUCH	SULPHAR DIOXIDE HYDROGEN	75 MT
919	YOUR CHOICE SURVEY NO. 140/PAIKEE 1, VILL-SALDI, TAL-LILIYA, DIST- AMRELI	AMRELI	LPG	60 MT
920	ZARKO GRANITO PVT LTD S.R.NO.148 - P 1, 148 - P 2, 148 - P 3, AT - MORBI - HALWAD ROAD, VILL :- NICHU MANDAL, DIST :- MORBI	MORBI	PROPANE / LPG	16.74
921	ZEALTOP GRANITO PRIVATE LIMITED Suvey No. 596, Near SoGo Ceramic, Old Ghunto Road, MORBI	MORBI	PROPANE / LPG	41.89
922	ZED VITRIFIED PVT LTD S.R.NO.76 P 1, 76 P 2, & 76 P 3, 8-A N.H., VILL. LALPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
923	KLJ PETROPLAST LIMITED PLOT NO. 909, 909/1 & 974, GIDC INDUSTRIAL ESTATE, JHAGADIA, DIST-BHARUCH	BHARUCH	ORTHO XYLENE N BUTANOL ETHANOL METHANOL	13680 KL 450 KL 4680 KL 450 KL
924	ANSHIKA POLYSURF LIMITED PLOT NO.C-383/1, SAYKHA GIDC, TA-VAGRA, DIST- BHARUCH	BHARUCH	ETHYLENE OXIDE	10 MT

925	LAND DECOR TILES LLP SR.NO-47/p1,47/p2,47/p3,49/p1 SARTANPAR ROAD AT-SARTANPAR TA-WANKANER DIST-MORBI	MORBI	PROPANE / LPG	49.99
926	NOKEN VITRIFIED PVT.LTD. S.R.NO. 204/P1, 204/P3, 205/P1, 205/P2, 208/P1, 209/P1, MORBI-HALVAD ROAD, VILL :- NICHU MANDAL	MORBI	PROPANE / LPG	49.99
927	ACTIVE CERAMIC PVT LTD S.NO.627/1/P-1,AT-LAKHDIRPUR ROAD,8-A.N.H, VILL-GHUNTU.	MORBI	PROPANE / LPG	16.74
928	GRESS CERAMICA PVT. LTD. 8-A NATIONAL HIGHWAY, AT. MATEL ROAD(DHUVA), TAL- WANKANER, DIST-MORBI	MORBI	PROPANE / LPG	16.75
929	EPOS TILES LLP S.R.NO.152, B / H 132 KVA SUBSTATION, OPP. MAX GRANITO, 8-A N.H.,VILL.LALPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
930	ANTIQA CERAMIC PVT LTD SURVEY NO.661 P/ 2, JETPAR ROAD, AT:-RANGPAR	MORBI	PROPANE / LPG	16.75
931	LAKME VITRIFIED LLP. S.R.NO. 227, 230 P2, 230 P3, VILLAGE-BELA, JETPAR - PIPLI ROAD, TAL-DIST-MORBI	MORBI	PROPANE / LPG	16.74
932	GEOTECH CERAMIC S.R.NO.46, AT - OLD RAFALESHWAR ROAD, JAMBUDIYA, TAL-DIST-MORBI	MORBI	PROPANE / LPG	39.98
933	GRENIC TILES PVT LTD SR. NO. 81/P1, 8-A NATIONAL HIGHWAY , AT : JAMBUDIYA, TAL : WANKANER , DIST-MORBI	MORBI	PROPANE / LPG	39.98
934	ORINDA INDUSTRIES LLP S.R.NO:-64/P2, 64/P3,64/P5,64P6,64/P7,59/1, 59/2, 60/P1 ,OPP. NEXION INTE.. PVT. LTD., HALVAD ROAD, AT-GHUNTU, DIST-MORBI	MORBI	PROPANE / LPG	100 M <sup>3</sup>
935	PLATINUM CERAMIC PVT LTD S.R.NO.499, VILL-JASMATGADH AT - JETPAR ROAD, TAL-DIST-MORBI	MORBI	PROPANE / LPG	16.67
936	ART TILE LLP S.R.NO.543 P 1 / P 2, 543 P 2 / P 1, 544 P 2 / P 1 / P 2, AT - JETPAR ROAD, VILL. SAPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.74
937	SAANS VITRIFIED LLP SR.NO.- 144 P 1, AT. - MATEL ROAD, 8-A NATIONAL HIGHWAY, VILL. LAKADDHAR, TAL.WANKANER, DIST.MORBI	MORBI	PROPANE / LPG	49.98
938	UDAY GRANITO LLP SR. NO. 81, 86 / P 2, AT.SARTANPAR ROAD, 8-A NATIONAL HIGHWAY, VILL. RATAVIRDA, TAL. WANKANER, DIST. MORBI	MORBI	PROPANE / LPG	30
939	FARMSON BASIC DRUGS PRIVATE LIMITED (UNIT-1A) PLOT NO:- 38, 40 / 1 & 40 / 2, G.I.D.C. NANDESARI ESTATE, TA-DIST. VADODARA-391340	VADODARA	CHLORINE	18 MT
940	M/S PRIVI SPECIALITY CHEMICALS LTD. PLOT NO. 765, GIDC INDUSTRIAL ESTATE, JHAGADIA, DIST-BHARUCH	BHARUCH	PROPYLENE OXIDE	120 KL
941	SHAMJI KANGAD AND CO. PLOT NO. 10 OF DPA, BETWEEN VILL-VEERA AND VILL-SANGHAD, TA-ANJAR, DIST-KUTCH	KUTCH	CHLORINE BROMINE	25 MT 30 MT

942	OCCL LTD. SR. NO. 141, PAIKI OF MOUJE SEZ, MUNDRA, KUTCH	KUTCH	CARBON DI SULPHIDE PROPANE	54 MT 39.98 MT
943	INDIAN OIL CORPORATION LTD. MUNDRA PANIPATH PIPELINE, PORT ROAD, OLD MUNDRA, KUTCH	KUTCH	CRUDE OIL DIESEL	722946 KL 215 KL
944	DEEPAK CHEM TECH LIMITED PLOT NO. D-2/6/1 & D-2/6/1/A, DAHEJ - II, INDUSTRIAL ESTATE DAHEJ, VILLAGE : RAHIYAD, TAL-VAGRA, DIST: BHARUCH - 392130.	BHARUCH	ANHYDROUS HYDROFLUORIDE (AHF) CHLORINE	25 MT 30 MT
945	JUBILANT AGRI AND CONSUMER PRODUCTS LIMITED BLOCK NO. 129, VILL-SAMLAYA, TAL-SAVLI, DIST- VADODARA	VADODARA	BUTADIENE ACRYLONITRILE	92.05 48
946	VITAL CHEMTECH LIMITED PLOT NO. D-3, 151 & 158, GIDC ESTATE DAHEJ-III, TA- VAGRA, DIST-BHARUCH	BHARUCH	CHLORINE	27 MT
947	LEVENT CERAMICS Suvery No. 225/2, B/h Magnum Paper Mill, At Lilapar, dist-morbi	MORBI	PROPANE / LPG	16.74
948	ALASKA SURFACES LLP SUR NO - 575/P1, 576/P1/P2, 576/P2/P2, JETPAR ROAD MORBI	MORBI	PROPANE / LPG	16.75
949	LEMEL PORCELANO LLP SR NO. 581 P1, 581 P3/P1 ,581 P3/P2, JETPAR ROAD VILL : SAPAR	MORBI	PROPANE / LPG	49.98
950	REDSTONE GRANITO PRIVATE LIMITED MATEL ROAD, AT-LAKADDHAR	MORBI	PROPANE / LPG	49.98
951	VALENZA GRANITO LLP SR. NO.- 565 P 1, 565 P 2, 565 P 3, 566 P 1 / P 1, 569 P 2, 569 P 1 / P 1, 569 P 1 / P 2 , AT.- JETPAR ROAD, VILL. RANGPAR, TAL. & DIST. MORBI	MORBI	PROPANE / LPG	16.75
952	COVERSTONE CERAMIC LLP Matel Road, 8A N.H. vill- Lakaddhar, Tal.Wankaner dist. Morbi	MORBI	PROPANE / LPG	16.75
953	LIVANTO PORCELANO LLP Jetpar road, vill:- sapar, Tal. Dist. Morbi	MORBI	PROPANE / LPG	16.75
954	STONE GRANITO LLP Sartanpar road, 8A N.H. vill-ratavirda, Tal. Wankaner Dist. Morbi	MORBI	PROPANE / LPG	16.75
955	LIMONZA TILES LLP Jetpar Road, vill:- Jivapar(chakampar), Tal. Dist. Morbi	MORBI	PROPANE / LPG	16.75
956	LEXIRA SURFACES LLP Jetpar Road, vill:- Jivapar(chakampar), Tal. Dist. Morbi	MORBI	PROPANE / LPG	16.75
957	TATVAM CHEMICALS LLP Halvad to Tikar Road, Vill:- Nava Ghanshyamgadh, TA.Halvad dist.Morbi	MORBI	BROMINE	70
958	SHREE RAM CHEMICALS SURVEY NO. 155, LAXMIVAS, NAVLAKHI ROAD, MORBI- 363660	MORBI	CHLORINE BROMINE HCL	45 MT 6 MT 300 KL
959	M/S TAGROS CHEMICALS INDIA PVT. LTD. PLOT NO. 2901 TO 2906 & 2806, GIDC, PANOLI, TAL- ANKLESHWAR, DIST-BHARUCH-394116	BHARUCH	ACRYLONITRILE ISOBUTYLENE BROMINE	30 MT 38 MT 72 MT

960	RELIANCE INDUSTRIES LTD. (NEW ENERGY COMPLEX) AT-NAVA GAM / KANA CHHIKARI VIA KHODIYAR COLONY TAL-LALPUR, PO. JAMNAGAR-361006	JAMNAGAR	PHOSPHINE SILANE	1.0 MT 19.2 MT
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## Appendix -2

### District Wise DCGs and LCGs Wise Important Phone Numbers

#### DCG- Ahmedabad

Sr. No.	Designation	Position in DCG	Office/Dept.	Phone Numbers	
				Office	Mobile/ Residence
1	2	3	4	5	6
1.	Collector & District Magistrate, Ahmedabad	Chair Person	Collector Office, Subhash Bridge Circle, Ahmedabad	079-27551681	-
2.	Shri U.J.Rawal, Dy. Director of Industrial Safety & Health	Member Secretary	Shram Bhavan, 5th Floor, Rustam Kama Marg, Near Gun House, Khanpur, Ahmedabad	079-25502349	9426217267
3.	IAS, Municipal Commissioner	Member	Office of the Mahanagar Seva Sadan, Sardar Patel Bhavan, Danapith, Ahmedabad	079-25352828	-
4.	Police Commissioner Ahmedabad	Member	Police Commissioner Office, Shahibaug, Ahmedabad	079-25633424, 079-25633737	-
5.	DSP, Ahmedabad Rural	Member	S G Highway, Near Divya Bhaskar Bridge, Near Adani Petrol Pump	079-26891168	-
6.	District Development Officer	Member	District Panchayat Lal Darwaja, Ahmedabad	079-25506487	7328579911
7.	SDM & Dy. Collector and Chair Person Local Crisis Group Vatva-Narol, Naroda, Odhav	Member	Prant Office, Vatva	079-25500002	7567008965
8.	SDM & Dy. Collector Ahmedabad West	Member	Collector Office, Subhash Bridge Circle, Near RTO Office, Ahmedabad	079-27551201	-
9.	SDM & Dy. Collector and Chair Person Local Crisis Group Dholka	Member	Prant Office, Dholka	02714-222404	-
10.	SDM & Dy. Collector and Chair Person Local Crisis Group Viramgam, Mandal, Detroj	Member	Prant Office, Viramgam	02715-295042	-
11.	SDM & Dy. Collector and Chair Person Local Crisis Group Sanand	Member	Prant Office, Sanand	02717-223351/ 52	-
12.	SDM & Dy. Collector and Chair Person Local Crisis Group Dhandhuka	Member	Prant Office, Dhandhuka	02713222259	-
13.	Dy. Controller Civil Defence.	Member	11 <sup>th</sup> Floor Bahumali bhavan Lal Darwaja, Ahmedabad	079-25507776	-
14.	Dy Information Officer	Member	Polytechnic Compound, Ahmedabad	079-26301148, 079-26305895	9898216516
15.	Chief Medical Superintendent	Member	New Civil Hospital, Asarwa, Ahmedabad	079-22681379	9825395515
16.	Chief District Health Officer	Member	Office of the DHO, Lal Darwaja, Ahmedabad	079-25501204	9227899661
17.	District Agriculture Officer	Member	Office of the District Agriculture Officer, Ahmedabad	079-25506874	9925081184

18.	Chief Fire Officer	Member	Danapith Fire Station, Ahmedabad	079-22148466	8451001350
19.	Dy. Chief Controller of Explosive	Member	Dy. Chief Controller of Explosive, Raopura, Vadodara	0265-2225159, 0265-2361035	-
20.	Regional Officer GPCB Ahmedabad	Member	GPCB, 3 <sup>rd</sup> floor Gram Nirman Bhavan, Ahmedabad	-	9427847265, 9824036915
21.	Regional Officer RTO Ahmedabad	Member	RTO Office Subhashbridge, Ahmedabad	079-27559696	8780714903
22.	Regional Officer RTO East Ahmedabad	Member	RTO Office, Vastral Ahmedabad	079-27559695	9913712366
23.	Mamlatdar Disaster Management Ahmedabad	Member	Collector Office, Subhas Bridge Circle, Ahmedabad	079-27561970	-
24.	Superintendent of Engg. PH (Mechanical Dept.,)	Member	Jal Bhavan, Behind Townhall, Ellisbridge, Ahmedabad	079-26575465	9727523086
25.	AGM-HR Torrent Power Ltd., Ahmedabad	Member	Torrent Power Ltd., Sabarmati, Ahmedabad	079-22551912	-
26.	General Manager, BSNL	Member	BSNL, Ahmedabad, Telecom, Gulbaitekara Ahmedabad	079-26305958	-
27.	Superintending Engineer	Member	UGVCL, Sabarmati, Ahmedabad	079-27500981, 079-27500214	-
28.	Secretary, Majoor Mahajan Sangh	Member	Majoor Mahajan Sangh, Lal Darwaja, Ahmedabad	079-25506857, 079-25506158	-
29.	Expert Person	Member	Shri.K.N Modi, Parikh Enterprises, GIDC Ind. Estate Odhav, Ahmedabad	079-22871471-2	99798 69945
30.	Expert Person	Member	Shri.K H Sura, Annar Chemicals Pvt. Ltd., Plot No.12/14, Phase-1, Vatva, Ahmedabad	-	9428105180
31.	Expert Person	Member	Shri Vishal Bhatt, Gujarat Krushi Rasayan Pvt. Ltd. GIDC Ind. Estate, Phase-I, Naroda, Ahmedabad	079-22810011	9824068699
32.	Expert Person	Member	Shri Vivek Priyadarhi, Dishman Pharmasutical and Chemicals Ltd., Sanand, Ahmedabad	-	8154000641
33.	Expert Person	Member	Shri Babu Desai, Meghmani Organics Ltd., Vatva, Ahmedabad	-	9909980431
34.	Expert Person	Member	Shri Gokhale, IOCL, Virangam	-	9650100901
35.	Expert Persons Member	Member	Shri Mehul Panchal Nirma Ltd., Moraiya, Sarkhej-Bavla Highway, Ahmedabad	-	9909717687

## DCG- AMRELI

Sr.No	Designation	Position in DCG	Office Address	Telephone Nos.	
				Office	Mobile
1	District Collector	Chair Person	JillaSevasadan, Collector Office, Rajmahel Campus, Amreli	2792222307	9978406202
2	Dy. Director Industrial Safety & Health	Member Secretary	Dy. Director Industrial Safety & Health, Junagadh, Sardar Baug, Junagadh-362001	2852636946	9429604342
3	Sub Divisional Megistrate	Member	Prant Office Amreli, Amreli, Dist-Amreli	2792222730	7567010024
4	District Emergency Officer	Member	Near Jillasevasadan, Rajmahel Campus, Amreli, Dis-Amreli	2792230735	9853753373
5	Deputy Superintendent Of Police	Member	Office of the deputy Superintendent Of Police, Amreli, Dist-Amreli	2792-222797	9925143505
6	Chief Fire Officer	Member	Fire Station, Amreli, Dist-Amreli	2792223592	9825236576
7	District Health Officer	Member	JillaSevasadan, Rajmahel Campus, Amreli, Dist-Amreli	2792222115	9978967602
8	District Information Officer	Member	District Information Office, Raj Mahal Compound, Amreli.	2792223404	9426232134
9	Representative Of Pollution Control Board	Member	1st floor, Swastik Complex, Plot No. 1616-1617, Near VirMokhdaji Circle, Ghoga Road, Bhavnagar 364 002.	2782566108	2782525837
10	District Agriculture Officer	Member	District Agriculture Office Amreli, Dist-Amreli	2792223324	9375510953
11	Executive Engineer	Member	R&B , Amreli	2852651504	8306261419
12	Executive Engineer	Member	Irrigation, Amreli	2852620841	9712195307
13	Expert From Industry-	Member	Aegis Gas(LPG) Pvt. Ltd. Gujarat Pipavav Port Limited, Post Uchhaiya, Via Rajula, DistAmreli	02794-286062	7043349559

15	Expert From Industry-	Member	SHV Energy Pvt Ltd, GIDC Babra,Babra, Dis-Amreli	2791233112	8460235359
16	Expert From Industry-	Member	Gujarat Cement Works ,Kovaya, Ta-Rajula,Dist=Amreli	2794283081	9826725414
17	Expert From Industry-	Member	Narmada Cement Works, Jafrabad,Ta_jafrabad, Dist-Amreli	2794245106	9887480163
18	Transport Officer	Member	ARTO Office, Second floor, M. S. Building, Rajmahel Compound. Amreli - 365001.	2792-223313	7567024165
19	GSRTC-Divisional Controller	Member	Divisional Controller Office,Amreli	2792240386	6359918307

## DCG – Anand

Sr.no.	Office/Dept. Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/Residence
1	Mr.Praveen Chaudhary,(IAS) District Collector	CHAIRMAN	Dist. Collector Office, New Seva Sadan, Nr.Ganesh Crossing, Anand,388001	02692-262271 9978406203	02692-261000
2	Mrs R.M. Rathva. Asst.Director, Industrial Safety&Health,Anand	Member Secretary	Asst.Director, Industrial Safety & Health, Anand	02692-263496	9586840933
3	J.A.SHAH DPO/Dijaster mamlatdar	Member	Disaster mamlatdar	02692-243222	7490915909
4	S.P.BHagora ,IAS Regional commissioner of Municipalities	Member	Office of regional Commissioner of Municipalities,6th floor, VUDA, Bhavan, near lion circle, Kareli bag, Vadodara-38	91-265-2493315	...
5	MR.GAURAV JASANI, DSP,ANAND, (I.P.S)	Member	DSP OFFICE,ANAND	02692-260027	9978405064
6	Mr.K.S. Patel SE,MGVCL,Anand	Member	GEB OFFICE,ANAND	...	9825407971
7	Mr. DharmeshGaur, Chief Fire Officer,Anand	Member	Anand Municipality, Sardar Gunj Road, Anand	02692-223408	7574831711
8	Mr. Hetalbhai Dave, Deputy Directorof Information,Anand	Member	Room No.113, Jilla Seva Sadan, Nr.Borsad Chokdi, Anand	02692-264994	9825599149
9	shri P.Seeniraj Deputy Controller of Information,Anand	Member	Dy. chief Controller office, 9th floor, park paradise, vadodara	0265-2361035	...
10	District Chief Home Guard Commandant	Member	jilla seva sadan, opp dsp office,4th floor, borsad chokdi, anand	02692-260956	...
11	Mr.ArvinbhaiPatel, President,Mazdoor ,Mahajan,Anand	Member	Mazdoor Mahajan, Opp.Amul Dairy. Anand	02692-223401	9904161591
12	Dr.piyush patel, CDHO,Anand	Member	dist panchayat office anand	02692-263277	7567870001
13	Mr.hitesh Gadhvi, Executive Engineer and R&B ,Anand	Member	Executive engineer ,R&B office , opp DSP office ,Anand	02692-260455	9879650171
14	Mr.Pavan Sharma RegionalOfficer, GPCB,Anand	Member	GPCB OFFICE ,ANAND	02692-266194 266195	8866814048
15	Mr. N.V. Parmar, ARTO,Anand	Member	ARTO OFFICE,BEDVA,TA.DI.ANAND	02692-264800	8347761787

16	Mr. Manishbhai Chauhan, Safety Officer	Member	SHITAL CHEMICAL INDUSTRIES, KHAMBHAT Dist-Anand	02698-221202	9106825885
17	Mr. Viajybai Mujpara, Safety Officer	Member	BODAL CHEMICAL LIMITED ,KHAMBHAT	942939941	7069046798
18	Mr.kamlesh patel ,Head EHS	Member	Jay chemical ltd, kalamsar, khambhat	9099946412	...
19	Mr.Hemal R Patel ,Secretary	Member	GIDC ASSOCIATION OFFICE,ELECON HALL GIDC, V.U.NAGAR, ANAND	02692-236186	9825089070
20	Mr.Chintan S.Patel, Distric Agricature Officer,Anand	Member	DISTRICT AGRICULTURE OFFICE, BORSAD CHOKDY,ANAND	02692-262102	...
21	KUNJAL SHAH, SDM,KHAMBHAT	Member	DY.COLLECTOR OFFICE,KHAMBHAT	02698-221021	7567010408

LCG – Anand

Sr.no.	Office/Dept. Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/Residence
1	Shri Kunjal K Shah, Prant Officer & SDM,KHAMBHAT	CHAIRMAN	Prant Office, Ta. Khambhat, Dist. Anand	02698-221021	7567010408
2	Mrs R.M. Rathva .Asst. Director, Industrial Safety&Health ,Anand	Member Secretary	Room No.218, Jilla Seva Sadan, Nr.Borsad Chokdi, Anand	02692-263496	9586840933
3	S.B. Kumpavat,Deputy Superintendent of Police ,khambhat	Member	Teen Darwaja, opp. Mamlatdar Office, khambhat	02698-222000	9925033275
4	Mr.Pavan Sharma Regional Officer, GPCB,Anand	Member	GPCB OFFICE ,ANAND	02692-266194 266195	8866814048
5	Shri M. B. Bhoi, Mamlatdar Office, Ta. Khambhat, Dist. Anand	Member	Mamlatdar Office, Ta. Khambhat,	+91 2698 221343	9724501277
6	J.A.SHAH Dijaster Mamlatdar	Member	District Emergency Operation Center, Circuit House, Compound, Amul Dairy Road, Anand	02692-243222	7490915909
7	Mr. DharmeshGaur, Chief Fire Officer,Anand	Member	Anand Municipality, Sardar Gunj Road, Anand	02692-223408	7574831711
8	District Chief Home Guard Commandant	Member	jilla seva sadan, opp dsp office,4th floor, borsad chokdi,anand	02692-260956	...
9	Dr.piyush patel, CDHO,Anand	Member	dist panchayat office anand	02692-263277	7567870001
10	shri Pradeepsinh Gohil ,Talati,Neja	Member	Neja.ta, khambhat , di.Anand	..	9512774143
11	Mr.Kamlesh Patel,E.H.S HEAD	Member	Jay chemical ltd, kalamsar, khambhat, Di.Anand	..	9099946412
12	Mr. Viajybai Mujpara, Safety Officer	Member	BODAL CHEMICAL LIMITED ,KHAMBHAT , Di. Anand	942939941	7069046798
13	Mr. ManishbhaiChauhan, Safety Officer	Member	SHITAL CHEMICAL INDUSTRIES, KHAMBHAT	7226817726	7202038284

## DCG - ARVALLI

SR NO.	OFFICE/Dept. Designation	Position in DCG	Office/ Department	Office Number	Mobile/Residence Number
1	District Collector	Chair Person	Revenue	02774-250200	9978406209
2	District Development Officer	Materials coordinator	Revenue	02774-250205	9727756393
3	Deputy Director Industrial Safety & Health , Gandhinagar	Member Secretary	DISH	079-23233231	079-23233231
4	SP	Member	POLICE	02774-248888 (Control Room) 02774-248415	9978405978
5	Regional Officer	Member	GPCB	--	9898003096
6	Dy. Chief Controller of Explosives	Member	Explosives	0265-2225159	-
7	Chief Fire officer	Member	Fire Dept.	101  02774-250221	24*7 disaster helpline- 1077  Control room- 02774-250225
8	Dy. Director of Information	Member	Information Dept.	02774-250234	7878550956
9	Dist. Health Officer	Member	Health	02774-248911	8200197005
10	Dist. Agricultural Officer	Member	Agriculture	02774-250172	9713324700
11	RTO	Member	R.T.O.	249925	9624603805

Banaskantha - DCG

Sr.No	Office /Dept Designation	Position in DCG	Office / Department	Phone Number	
				Office	Mobile Residence
1	District Collector	Chair Person	Office of The District Collector Banaskantha	0242-257171	9978406204
2	Resident Add. Collector	Member	Office of The District Collector Banaskantha	0242-257171	9978405176
3	Superintendent of Police	Member	Office of The Superintendent of Police Banaskantha	02742-257015	9978405056
4	District Development Officer	Member	Office of The District Development Officer	02742-254060	9978406229
5	Deputy Director Industrial safety and Health	Member Secretary	Office of The Deputy Director Industrial safety and Health , Mehsana	02762-231501	9662509841
6	Mamlatdar Disaster Banaskantha	Member	Mamlatdar Disaster Banaskantha	02742-250627	
7	District Information Officer	Member	Office of The District Information Officer	02742-257247	9427514033
8	Civil Surgeon	Member	Civil Hospital Banaskantha	02742-253083 252475	
9	District Agricultural Officer	Member	Office of The District Agricultural Officer	02742-252634	999466055
10	S.D.M. & Deputy Collector Palanpur	Member	S.D.M Office Palanpur	02742-257335	9978405206
11	Regional officer G.P.C.B. Banaskantha	Member	G.P.C.B. Banaskantha	02742-252374	7069897177
12	Commandant Home guard (Civil Defence)	Member	Commandant Home guard Office Palanpur	02742-253243	9978408265
13	Chief Officer Nagarpalika Palanpur (Banaskantha)	Member	Nagarpalika Palanpur	02742-257372	9974650055
14	Manager H.P.C.L Chandisar	Member	H.P.C.L Chandisar	02742-283091	8374385897
15	R.T.O. Banaskantha	Member	R.T.O Office Palanpur	02742-	
16	D.H.O. Banaskantha	Member	D.H.O. Office Palanpur	02742-252243	97277300041
17	Project Officer, Disaster Cell, Banaskantha Palanpur	Member	Project Officer, Disaster Cell, Palanpur		9537511458
18	President Deesa Cold Storage Association Deesa	Member	President Deesa Cold Storage Association Deesa		9825096744
19	Safety Officer Banas Dairy	Member	Banas Dairy	02742-253881 -85	9727721387 9624189781
20	Safety Officer Ami Caster & Derivatives Ltd Chandisar	Member	Ami Caster & Derivatives Ltd Chandisar	02742-283369 283698	9925546612

Bharuch - DCG

Sr.No.	Office/ Dept. Designation	Position In DCG	Office/ Department	Phone Numbers	
				Office	Mobile/ Residence
1	Collector	Chairman	Collector Office, Bharuch	240600	9978406205
2	Resident Additional Collector	Deputy Chairman	Collector Office, Bharuch	222332	9978405177
3	Superintendent of Police	Member	Police Department	223633	99784 05066
4	Prant Officer, Bharuch	Member	Collectorate, Bharuch	241980	9978405256
5	Prant Officer, Ankleshwar	Member	Collectorate, Bharuch	227648	7567011436
6	Prant Officer, Jhagadia	Member	Collectorate, Bharuch	220052	7567011411
7	Prant Officer, Jambusar	Member	Collectorate, Bharuch	220170	7567011407
8	Deputy Director, Industrial Safety and Health	Member Secretary	Deputy Director, Industrial Safety and Health	02642-240421	6354310155
9	Deputy Director, Information Department	Member	Information Department	2642240421	---
10	Regional Officer Gujarat Pollution Control Board	Member	Gujarat Pollution Control Board	246333	9016141515
11	CDHO, Bharuch	Member	Health Department	243660	9726956500
12	Chief Fire Officer, Bharuch	Member	Fire Department	253251	8140870352
13	Chief Officer, Bharuch	Member	Collectorate, Bharuch	290400	9426279530
14	Mamlatdar, Disaster, Bharuch	Member	Collector Office, Bharuch	242300	9879274080

15	Deputy Director, Information Department	Member	Information Department	243778	8980647078
16	ARTO, Bharuch	Member	ARTO Department	233102	9429440285
17	Supritendent Enginner	Member	DGVCL	245402	9825603168
18	President, Vilayat/Saykha Industries Association	Member	Association	---	9409133000
19	President, Panoli Industries Association	Member	Association	---	9426807043
20	President, Jhagadia Industries Association	Member	Association	---	7984600895
21	President, Ankleshwar Industries Association	Member	Association	---	9825258383
22	President, Dahej Industries Association	Member	Association	---	9099941862
23	Manager	Member	GVK-108	---	8238088789

**LCG-BHARUCH-VAGRA-JAMBUSAR**

Sr.No.	Office/ Dept. Designation	Position In DCG	Office/ Department	Phone Numbers	
				Office	Mobile/ Residence
1	Sub Divisional Magistrate, Vagra	Chairman	Collector Office	---	9978405256
2	Prant Officer, Jambusar	Member	Collectorate, Bharuch	---	7567011407
3	Mamlatdar, Bharuch	Member	Collector Office	243536	7567001377
4	Mamlatdar, Vagra	Member	Collector Office	225858	9978262438
5	Regional Officer	Member	Gujarat Pollution Control Board	246333	9016141515
6	Police Inspector, Dahej	Member	Home Department	02642-256233	9099081252
7	Police Inspector, Bharuch	Member	Home Department	02642-256233	9408283521
8	Deputy Director, Information Department	Member	Information Department	243778	8980647078
9	Fire Officer, Bharuch	Member	Fire Department	253251	8140870352
10	Manager	Member	GVK EMRI-108		8238088789
11	ARTO, Bharuch	Member	ARTO Department	233102	9429440285
12	TDO, Vagra	Member	Collector Office	260621	7567012640
13	Taluka Health Officer, Vagra	Member	Health Department	243660	9726956500
14	President, Dahej Industries Association	Member	Association	---	9099941862
15	Assistant Director, Industrial Safety and Health	Member Secretary	Office of the Deputy Director, Industrial Safety and Health	02642-240421	9909918185

**LCG-JHAGADIA-VALIA**

Sr.No.	Office/ Dept. Designation	Position In DCG	Office/ Department	Phone Numbers	
				Office	Mobile/ Residence
1	Sub Divisional Magistrate, Jhagadia	Chairman	Collector Office	02645-200053	7576701411
2	Mamlatdar, Jhagadia	Member	Collector Office	02645-220039	9904859844
3	Regional Officer	Member	Gujarat Pollution Control Board	246333	9016141515
4	Police Inspector, Jhagadia	Member	Home Department	02645-220033	9825287262
5	Deputy Director, Information Department	Member	Information Department	243778	8980647078
6	Fire Officer, Jhagadia	Member	Fire Department	02645-226108	9924942502
7	Inspector of Motor Vehicle RTO, Bharuch	Member	RTO Department	02642-240653	9825382666
8	TDO, jhagadia	Member	Collector Office	260621	7567012640
9	Taluka Health Officer, Jhagadia	Member	Health Department	2645220021	9426125986
10	President, Jhagadia Industries Association	Member	Association	---	7984600895
11	Assistant Director, Industrial Safety and Health	Member Secretary	Office of the Deputy Director, Industrial Safety and Health	02642-240421	9624000903

LCG-Ankleshwar-Hansot

Sr.No.	Office/ Dept. Designation	Position In DCG	Office/ Department	Phone Numbers	
				Office	Mobile/ Residence
1	Sub Divisional Magistrate, Ankleshwar	Chairman	Collector Office	24648	7567011436
2	Mamlatdar, Ankleshwar	Member	Collector Office	224603	7567001495
3	Regional Officer, GPCB	Member	Gujarat Pollution Control Board	222933	9898099864
4	Police Inspector, Ankleshwar	Member	Home Department	245544	9825214419
5	Fire Officer, Ankleshwar	Member	Fire Department	253251	8140870352
6	Inspector of Motor Vehicle RTO, Bharuch	Member	RTO Department	240653	9099557769
7	TDO, Ankleshwar	Member	Collector Office	----	9727702170
8	Taluka Health Officer, Ankleshwar	Member	Health Department	244379	9924442215
9	President, Ankleshwar Industries Association	Member	Association	---	9825258383
10	Officer Industrial Safety and Health	Member Secretary	Office of the Deputy Director, Industrial Safety and Health	02642-240421	9924540101

DCG - Bhavnagar

Sr. No.	Office / Department Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/Residence
1	District collector	Chairperson	Collector Office, Bhavnagar	(0278) 2428822 (0278) 2521666	9978406206
2	Inspector of Factories	Member secy	Assistant Director Industrial Safety & Health, Bhavnagar	(0278) 2428473	9427508476
3	District Energy Officer	Member	P.G.V.C.L. Office, Bhavnagar	(0278) 2522922 (0278) 2524924	9879203840
4	Chief Fire Officer	Member	Bhavnagar Municipal Corporation	(0278) 2424814 (0278) 2424815	9825204004
5	District Information Officer	Member	District Information Office, Bhavnagar	(0278) 2424994 (0278) 2422919	9978894289
6	Controller of Explosives	Member	Petroleum and Explosive Safety Organisation, Vadodara	(0278) 2225159	
7	Chief, Civil Defence	Member	Disaster Cell, Collector Office, Bhavnagar	(0278) 2521554	9978405178
8	One Representative of Trade Union to be nominated by the District Collector	Member	Trade Union Office, Bhavnagar	(0278) 2235035	
9	Deputy Superintendent of Police	Member	Office of Superintendent of Police, Bhavnagar	(0278) 2520050	9978405067
10	District Health Officer/Chief Medical officer	Member	Jilla Panchayat, Bhavnagar	(0278) 2423665	9727779662
11	Commissioner, Municipal Corporations	Member	Bhavnagar Municipal Corporation	(0278) 2439900 (0278) 2510532	9978404900
12	Representative of the Department of Public Health Engineering	Member	Bhavnagar Municipal Corporation		9328938008
13	Representative of Pollution Control Board	Member	Pollution Control Board, Bhavnagar	(0278) 2566108	8140944711
14	District Agriculture Officer	Member	District Agriculture Office, Bhavnagar		9712588365
15	4 Expert (Industrial Safety & Health) to be nominated by the District Collector	Member	1.Mr. R.K.Shah (Nirma Ltd.) 2.V.V.Shah(Nirma Ltd.)		(1) 7573020761 (2) 9099069056 (3) 9426743350 (4) 9913999988

			3. Mr. Amit Maheta (Sumitomo Chemical India Ltd)  4. Mr. Bhruguraj Zala (Renaissance Industries)		
16	Commissioner(transport)	Member	R.T.O. Bhavnagar	(0278) 2424004	9723759293
17	One Representative of Industry to be nominated by the District Collector	Member	V.V.Shah  Nirma Limited		9099069056
18	Chair-person/Member- Secretary of Local Crisis Group	Member	Prant Officer-Talaja  Prant Officer-Sihor  Prant Officer-Mahuva  Prant Officer-Palitana	02842 222260  02846 222103  02844 222765  02848 243350	7567010274  7567010355  7567010268  7567010276

## DCG – Devbhoomidwarka

SR. NO.	OFFICE/DEPARTMENT DESIGNATION	POSITION IN DCG	OFFICE/DEPARTMENT	PHONE NUMBER	
				OFFICE	MOBILE/RESIDENCE
1	DISTRICT COLLECTOR DEVBHUMI DWARKA	CHAIRMAN	COLLECTOR OFFICE DEVBHUMI DWARKA	(02883) 232804	9978405933
2	DEPUTY DIRECTOR, INDUSTRIAL SAFETY & HEALTH	MEMBER SECRETORY	DEPUTY DIRECTOR, INDUSTRIAL SAFETY & HEALTH , DEVBHUMI DWARKA	(0288) 2678206	9879102225
3	NAGARPALIKA, KHAMBHALIYA	MEMBER	KHAMBHALIYA NAGARPALIKA	(02833) 234919	9723565252
4	SUPTD. OF POLICE	MEMBER	SP OFFICE DEVBHUMI DWARKA	(02833)- 232002	9978405976
5	CHIEF FIRE OFFICER KHAMBHALIYA	MEMBER	KHAMBHALIYA NAGARPALIKA	02883- 234731	-
6	DY. DIRECTOR OF INFORMATION DEVBHUMI DWARKA	MEMBER	DISTRICT INFORMATION OFFICE JAMNAGAR	0288 2556827	0288-2672939
7	DY. CHIEF CONTROLLER OF EXPLOSIVE, VADODARA	MEMBER	DY. CHIEF CONTROLLER OF EXPLOSIVE OFFICE, VADODARA	(0265) 2225259	-
8	DY. CONTROLLER OF CIVIL DEFENCE, DEVBHUMI DWARKA	MEMBER	CIVIL DEFENCE OFFICE, DEVBHUMI DWARKA	(0288) 2540371	-
9	GEN. SECRETARY MAJUR MAHAJAN SANGH, JAMNAGAR	MEMBER	MAJUR MAHAJAN SANGH, JAMNAGAR	-	8511185741
10	REGIONAL OFFICER GPCB DEVBHUMI DWARKA	MEMBER	GUJARAT POLLUTION CONTROL BOARD OFFICE JAMNAGAR	(0288) 2752366	9879205044
11	CHIEF DISTRICT HEALTH OFFICER DEVBHUMI DWARKA	MEMBER	DISTRICT HEALTH OFFICE, DEVBHUMI DWARKA	0288-235974	9375101163
12	SUPERINTENDING ENGINEER PGVCL - GEB, KHAMBHALIYA	MEMBER	PGVCL, KHAMBHALIYA	-	9879200762
13	EXECUTIVE ENGINEER, PUBLIC HEALTH WORKS, ZONE 1 DEVBHUMI DWARKA	MEMBER	PWD OFFICE, DEVBHUMI DWARKA	0288- 2553187	9879054976
14	DISTRICT AGRICULTURE OFFICER, DEVBHUMI DWARKA	MEMBER	DISTRICT AGRICULTURE OFFICE, DEVBHUMI DWARKA	(0288) 2556119	9824280767
15	FIRE CHIEF IOCL, VADINAR DEVBHUMI DWARKA	MEMBER	IOCL VADINAR	-	8447749145
16	CHIEF (SAFETY & FIRE) RSPL LTD	MEMBER	RSPL LTD KURANGA	-	8308824454
17	ASSISTANT REGIONAL TRANSPORT OFFICER, DEVBHUMI DWARKA	MEMBER	ASSISTANT REGIONAL TRANSPORT OFFICE, DEVBHUMI DWARKA	-	7600522512
18	CHIEF (SAFETY & FIRE) NAYARA ENERGY LTD	MEMBER	NAYARA ENERGY LTD VADINAR	-	9099067448
19	CHIEF (SAFETY & FIRE) TATA CHEMICALS LTD	MEMBER	TATA CHEMICALS LTD MITHAPUR	-	6355239040

## DCG - GANDHINAGAR

SR NO.	OFFICE/Dept. Designation	Position in DCG	Office/ Department	Office Number	Mobile/Residence Number
1	District Collector	Chair Person	Revenue	-	9978406209
2	Inspector of Factories	Member Secretary	DISH	-	9601298852
3	District Emergency Officer	Member	Revenue	-	9427306418
4	Controller Of Explosives	Member	Explosives	-	9830675417
5	Superintendent of Police	Member	POLICE	-	9978405070
6	District Health Officer	Member	HEALTH	-	9687679256
7	District Agriculture Officer	Member	AGRICULTURE	-	9426597370
8	R.T.O. Officer	Member	R.T.O.	-	9913936440
9	District Development Officer	Member	REVANUE	-	9978406234
10	Municipal Commissioner	Member	MUNICIPAL CORPORATION	-	9978400531
11	Chief Fire Officer	Member	MUNICIPAL CORPORATION	-	9898076358
12	Chief Medical Officer (CMO)/ Civil Surgeon	Member	HEALTH	-	9427309440
13	Mamlatdar (Disaster Management)	Member	REVANUE	-	9979246021
14	District Project Officer (GSDMA)	Member	GSDMA	-	9724354455
15	District Information Officer	Member	INFORMATION DEPT.	-	7574857845
16	Gujarat Pollution Control Board	Member	GPCB	-	9426931820

LCG – KALOL - MANSA

SR NO.	OFFICE/Dept. Designation	Position in DCG	Office/ Department	Office Number	Mobile/Residence Number
1	SDM	Chair Person	Revenue	-	7567069072
2	T.D.O.	Materials coordinator	Revenue	02774-250205	9727756393
3	Assitant Director Industrial Safety & Health , Gandhinagar	Member Secretary	DISH		9879544075
4	PI	Member	POLICE	02764-227022	6359624956
5	Regional Officer	Member	GPCB	--	9426931820
6	Dy. Chief Controller of Explosives	Member	Explosives	0265-2225159	-
7	Chief Fire officer	Member	Fire Dept.		9898076358
8	Mamlatdar (Disaster Management)	Member	REVANUE	-	9979246021
9	District Project Officer (GSDMA)	Member	GSDMA	-	9724354455
10	District Information Officer	Member	INFORMATION DEPT.	-	7574857845

## DCG- GIR SOMNATH

Sr.No	Designation	Position in DCG	Office Address	Telephone Nos.	
				Office	Mobile
1	District Collector	Chair Person	District Collector Office, Veraval, Girsomnath,	2876243344	9978405934
2	Dy. Director Industrial Safety & Health	Member Secretary	Dy. Director Industrial Safety & Health, Junagadh, Sardar Baug, Junagadh-362001	2852636946	9824190891
3	Sub Divisional Megistrate	Member	District Collector Office, Veraval, Girsomnath,	2876243322	9978405344
4	District Emergency Officer	Member	First Floor, District Collector Office, Veraval, Girsomnath,	2876240063	9426969236
5	Deputy Superintendent Of Police	Member	Deputy Superintendent Of Police Girsomnath, Near Municipal Office Veraval-Girsomnath	02876 223101	9978407965
6	Chief Fire Officer	Member	Fire Station Veraval, Railway Station Road, Veraval, Girsomnath	02876 -247128	9227192898
7	District Health Officer	Member	Rajendra Bhuvan Road, Opp. Court, Veraval, Girsomnath	02876-243077	7567889923
8	District Information Officer	Member	Deputy Director, Information, Salinity Colony, Near Circuit House, Veraval, Girsomnath	02876-240108	9426520137
9	Representative Of Pollution Control Board	Member	Regional Office, Gujarat Pollution Control Board, Pankaj Bunglow, Station Road, Junagadh	0285-2651506	9909236187
10	District Agriculture Officer	Member	Diistrict Agriculture Office, Veraval, Girsomnath	2876249248	9824249252
11	Expert From Industry-	Member	Indian Rayon Ltd, Veraval, Girsomnath	2876248745	9879504181
12	Expert From Industry-	Member	GHCL Limited, Sutrapada, Girsomnath	2876305000	9099093069
13	Expert From Industry-	Member	Ambuja Cements Ltd, Kodinar, Dist-Girsomnath	2795237360	8511145893
14	Transport Officer	Member	ARTO Office, Rajendra Bhuvan Road, Near Circuit House, Veraval, Dist-Girsomnath	02876 240690	9374858221

## DCG - JAMNAGAR

SR. NO.	OFFICE/DEPARTMENT DESIGNATION	POSITION IN DCG	OFFICE/DEPARTMENT	PHONE NUMBER	
				OFFICE	MOBILE/RESIDENCE
1	DISTRICT COLLECTOR JAMNAGAR	CHAIRMAN	COLLECTOR OFFICE JAMNAGAR	(0288) 2555869	9978405933
2	DEPUTY DIRECTOR, INDUSTRIAL SAFETY & HEALTH	MEMBER SECRETORY	DEPUTY DIRECTOR, INDUSTRIAL SAFETY & HEALTH, JAMNAGAR	(0288) 2678206	9879102225
3	NAGARPALIKA, JAMNAGAR	MEMBER	JAMNAGAR NAGARPALIKA	(0288) 2552321	(0288) 2552372
4	SUPTD. OF POLICE	MEMBER	SP OFFICE JAMNAGAR	2555868	9978405639
5	CHIEF FIRE OFFICER JAMNAGAR	MEMBER	JAMNAGAR NAGARPALIKA	02883-234731	-
6	DY. DIRECTOR OF INFORMATION JAMNAGAR	MEMBER	DISTRICT INFORMATION OFFICE JAMNAGAR	(0288) 2556827	(0288) 2672939
7	DY. CHIEF CONTROLLER OF EXPLOSIVE, VADODARA	MEMBER	DY. CHIEF CONTROLLER OF EXPLOSIVE OFFICE, VADODARA	(0265) 2225259	-
8	DY. CONTROLLER OF CIVIL DEFENCE, JAMNAGAR	MEMBER	CIVIL DEFENCE OFFICE, JAMNAGAR	(0288) 2540371	-
9	GEN. SECRETARY MAJUR MAHAJAN SANGH, JAMNAGAR	MEMBER	MAJUR MAHAJAN SANGH, JAMNAGAR	-	8511185741
10	REGIONAL OFFICER GPCB JAMNAGAR	MEMBER	GUJARAT POLLUTION CONTROL BOARD OFFICE JAMNAGAR	(0288) 2752366	9879205044
11	CHIEF DISTRICT HEALTH OFFICER JAMNAGAR	MEMBER	DISTRICT HEALTH OFFICE, JAMNAGAR	(0288) 2671097	7567880001
12	SUPERINTENDING ENGINEER PGVCL - GEB, JAMNAGAR	MEMBER	PGVCL, JAMNAGAR	(0288) 2550301	9227807771
13	EXECUTIVE ENGINEER, PUBLIC HEALTH WORKS, ZONE 1 JAMNAGAR	MEMBER	PWD OFFICE, JAMNAGAR	(02888) 2554245	9558888838
14	DISTRICT AGRICULTURE OFFICER, JAMNAGAR	MEMBER	DISTRICT AGRICULTURE OFFICE, JAMNAGAR	(0288) 2556119	-
15	FIRE CHIEF RELIANCE IND LTD JAMNAGAR	MEMBER	RELIANCE IND LTD	-	9766586727
16	CHIEF (SAFETY & FIRE) GSFC LTD	MEMBER	GSFC LTD	-	8238021992
17	REGIONAL TRANSPORT OFFICER, JAMNAGAR	MEMBER	REGIONAL TRANSPORT OFFICE, JAMNAGAR	-	9586739729
18	CHIEF (SAFETY & FIRE) BPCL	MEMBER	BPCL, JAMNAGAR	-	9585890311

## DCG- JUNAGADH

Sr.No	Designation	Position in DCG	Office Address	Telephone Nos.	
				Office	Mobile
1	District Collector	Chair Person	Jillasevasadan ,Near SardarBaug.Junagadh-Junagadh	2852636100	9978406211
2	Dy.Director Industrial Safety & Health	Member Secretary	Dy.Director Industrial Safety &Health,Junagadh,Sardar Baug,Junagadh-362001	2852636946	9429604342
3	Sub Divisional Megistrate	Member	Sub DivisionalMegistrateOffice,Li mdaChawk,Junagadh.	2852651701	9978405346
4	District Emergency Officer	Member	District Emergency center, .Near Sardarbaug,Junagadh	2852633446	9427433979
5	Deputy Superintendent Of Police	Member	Deputy Superintendent Of Police Head quarter-Junagadh,Junagadh	2852651135	9978407898
6	Chief Fire Officer	Member	Junagadh Municipal Office,Junagadh	2852620841	8155902552
7	District Health Officer	Member	Jilla Panchayat Office,saradarbaug ,Junagadh	2852633196	7567885111
8	District Information Officer	Member	,District Information Office, Rang Mahal Road, Junagadh. Junagadh	2852627281	9426520131
9	Representative Of Pollution Control Board	Member	Gujarat Pollution Control Board,PankajBunglow,Statio nRoad,Junagadh	2852651504	9909236187
10	District Agriculture Officer	Member	Jilla Panchayat Office,Sevasadan,saradarba ug ,Junagadh	2852633046	9428786298
11	Executive Engineer	Member	R&B , Sardarbaug Junagadh	2852651504	9428189644
12	Executive Engineer	Member	GWSSB, Junagadh	2852620841	9978447263

13	Executive Engineer	Member	Irrigation , Junagadh	-	9427765266
14	Executive Engineer	Member	PGVCL City Junagadh	-	9879618768
15	Expert From Industry-	Member	Gadre Marine Export Pvt Ltd, Chorvad, ta-maliya, Dist-Junagadh	2870288660	9909910690
16	Expert From Industry-	Member	Relaible Dychem Pvt Ltd, Bhesan Chokdi, Sabalpur, Junagadh	2852660748	9824815080
17	Expert From Industry-	Member	Torrent Gas, Junagadh	2876248745	9081819799
18	Expert From Industry-	Member	Austin Engineering Junagadh	2876305000	9099093069
19	Transport Officer	Member	Regional Transport Office, Khamdhrol Road, Junagadh	2852650691	9426120889
20	GSRTC-Divisional Controller	Member	Near Agriculture University, Opp Motibaug Junagadh	2852670134	9998953197

## DCG- Kheda

Sr no.	Office / Dept. Designation	Position In DCG	Office / Department	Phone Number	
				Office	Mobile / Residence
1	District Collector, Nadiad	CHAIRMAN	Collector Office, Nadiad	(0268) 25-2553334	9978406212
2	SDM & Dy. Collector, Nadiad	VICE CHAIRMAN	Office of the SDM & Dy. Collector, Nadiad	(0268) 25-2553334	7574953653
3	District Development Officer, Nadiad	MEMBERS	Office of the DDO, District Panchayat Office, Nadiad	(0268) 25-2557230	7574001241
4	Dy. Director (IS&H), Nadiad	MEMBER SECRETARY	ROOM NO-9/10 D-BLOCK, SARDAR PATEL BHAVAN - NADIAD	(0268) 2568986	9998958326
5	Suptd. of Police	MEMBERS	SP Office, Nadiad	(0268) 2550250	9978405072
6	Fire Superintendent	MEMBERS	Fire Station, Nadiad		9879253440
7	Chief Dist. Health Officer	MEMBERS	Jilla Panchayat Office ,Nadiad		9099024720
8	Civil Surgeon	MEMBERS	Civil Hospital, Nadiad	0268- 2529074	
9	Superintending Engg	MEMBERS	GEB, Nadiad	0268- 2556680	
10	Chief Officer	MEMBERS	NAGARPALIKA OFFICE - Nadiad		9879253440
11	Regional Officer	MEMBERS	Gujarat Pollution Control Board, Nadiad		9825977445
12	Assi. Director of Information	MEMBERS	Kapadvanj Road, Nadiad	0268-25 50903	7383216489
13	Mgr. Safety	TECHNICAL EXPERTS	AEGIS GASES		7405090006
14	Mgr. Safety	TECHNICAL EXPERTS	BPCL HARIYALA		9752385812
15	Mgr. Safety	TECHNICAL EXPERTS	BPCL KANERA		9586223344
16	Mgr. Safety	TECHNICAL EXPERTS	GODREJ INDUSTRIES	--	9033112539
17	Mgr. Safety	TECHNICAL EXPERTS	GSECL, WANAKBORI	-	9687662370

LCG - kheda

Sr no.	Office / Dept. Designation	Position In LCG	Office / Department	Phone Number	
				Office	Mobile / Residence
1	SUB DIVISIONAL MAGISTRATE	CHAIRMAN	COLLECTOR OFFICE KHEDA	02694-224301	7574953653
2	Dy. Director (IS&H), Nadiad	MEMBER SECRETARY	Office of Deputy Director, Industrial safety and health, NADIAD	02694-2568986	9998958326
3	MAMLATDAR - KHEDA	MEMBERS	COLLECTOR OFFICE KHEDA		9879650648
4	POLICE INSPECTOR KHEDA	MEMBERS	POLICE STATION - KHEDA	02694-222033	
5	POLICE INSPECTOR MATAR	MEMBERS	POLICE STATION - MATAR	02694-222033	
6	CHIEF OFFICER KHEDA	MEMBERS	Kheda Nagarpalika - Kheda		7201040210
7	FIRE OFFICER - Kheda	MEMBERS	Kheda Nagarpalika - Kheda		9879253440
8	TDO - Kheda	MEMBERS	Taluka Panchayat, Office Kheda		7567014114
9	TDO - matar	MEMBERS	Taluka Panchayat, Office Matar		7567013827

## DCG- Kutch

Sr no.	Office / Dept. Designation	Position In DCG	Office / Department	Phone Number	
				Office	Mobile / Residence
1	District Collector	CHAIRMAN	Collector Office, Bhuj	(02832) 250020	(02832) 250350
2	SDM & Dy. Collector, Bhuj	VICE CHAIRMAN	Office of the SDM & Dy. Collector, Bhuj	(02832) 250650	(02832) 240571
3	District Development Officer	MEMBERS	Office of the DDO, District Panchayat Office, S.T. Road, Bhuj.	(02832) 250080	(02832) 250052 9825015281
4	Dy. Director (IS&H), Kutch	MEMBER SECRETARY	Plot No. 66, ward 1-b Adipur, Kutch.	(02836) 260020	8980029190
5	Suptd. of Police – West	MEMBERS	SP Office, Bhuj	(02832) 250444	(02832) 250850
6	Suptd. of Police - East	MEMBERS	SP Office, Gandhidham	(02836) 280233	(02836) 280211s
7	Addl. Suptd. of Police	MEMBERS	SP Office, Bhuj	(02832) 252250	(02832)
8	PI SOG Adipur	MEMBERS	SOG Adipur	02836 260618	98257 90822
9	Fire Superintendent	MEMBERS	Fire Station, KPT, Kandla.	(02836) 270176, 270178, 270439	9825227041
10	Fire Superintendent	MEMBERS	Fire Station, Bhuj, Kutch.	(02832) 101 220590	(02832) 247030 9925170506
11	Chief Dist. Health Officer	MEMBERS	Jilla Panchayat Office, S.T. Road, Bhuj.	(02832) 252207	(02832) 251623 9909949302
12	Addl. Dist. Health Officer	MEMBERS	Jilla Panchayat Office, S.T. Road, Bhuj.	(02832) 223575	(02832) 224629 9427064500
13	Civil Surgeon	MEMBERS	Civil Hospital, Bhuj	(02832) 250150	(02832) 250544 9727734013
14	Area manager Telecom	MEMBERS	District Telecom Office, Bhuj.	(02832) 238000	(02832) 236000

15	Superintending Engg	MEMBERS	GEB, Bhuj (East)	(02832) 255831 253550	(02832) 258052 98792 00789
16	Distt. Agricultural Officer	MEMBERS	Jilla Panchayat Office, S.T.Road, Bhuj	(02832) 221155 220907	(02832) 221115 70960 62781
17	Chief Officer	MEMBERS	Municipality Office, S.T. Road, Bhuj	(02832) 220301 224404	(02832) 251152 99250 13857
18	Dist. Social Welfare Officer	MEMBERS	-	(02832) 220654	9099956866 9998161331
19	Executive Engineer	MEMBERS	Gujarat Water Supply & Sewerage Board, Jalseva Nagar, Bhuj	(02832) 251601	(02832) 221806 99784 06534
20	Regional Officer	MEMBERS	Gujarat Pollution Control Board,		
21	Dy. Chief Controller of Explosives	MEMBERS	1 st. floor Stradha com. Navapura, R. V. Desai Rd, Vadodara.	0265 2420512	-
22	Commander, Home guard	MEMBERS	Collage road, Bhuj	(02832) 250161	
23	Commander Boarder wing Home guard	MEMBERS		(02832) 252150	(02832)
24	Assi. Director of Information	MEMBERS	Opp. Mahumali Bhavan, Bhuj.	(02832) 252855	-
25	Dy. General Manager	TECHNICAL EXPERTS	IFFCO, Old Kandla	(02836) 252678	9979026415
26	G.M.	TECHNICAL EXPERTS	Solaris Chemtech Ltd.	(02803) 286255	9909922717
27	Mgr. Safety	TECHNICAL EXPERTS	Welspun Ltd. Anjar.	02838 289310	9825019121
28	Mgr.F & S	TECHNICAL EXPERTS	Adani Port Ltd., Mundra.	--	7069083035
29	Director	TECHNICAL EXPERTS	Aarti Chemicals & Drugs Ltd.	-	9998953992

LCG - GANDHIDHAM-ANJAR

Sr no.	Office / Dept. Designation	Position In LCG	Office / Department	Phone Number	
				Office	Mobile / Residence
1	SUB DIVISIONAL MAGISTRATE	CHAIRMAN	Prant Office, Adipur Road, Chitrakut circle, Near Jimkhana, Anjar-370110	02836-243345 02836-243345	-
2	ASSISTANT DIRECTOR (DISH)	MEMBER SECRETARY	Office of Deputy Director, Industrial safety and health, Adipur,kutch	02836-260020	-
3	MAMLATDAR - GANDHIDHAM	MEMBERS	Mamlatdar Office, Sector - 1/A, Kachchh Kala Road, Gandhidham-370201	02836-250270	-
4	MAMLATDAR – ANJAR	MEMBERS	Mamlatdar Office, opp. Municipal Complex, Near Bus Station Road, Anjar-370110	02836-242588	-
5	POLICE INSPECTOR GANDHIDHAM	MEMBERS	Oslo Rd, near Ayyappa Temple, Sector 3, Gandhidham, Gujarat 370201	02836-258100 02836-233752	-
6	POLICE INSPECTOR ANJAR	MEMBERS	Police Station Opposite Bus Station Anjar	02836-242517	-
7	POLICE INSPECTOR MARINE	MEMBERS	RPCF+FG6, Mundra, Gujarat 370421	Mandvi marine 02834-223358 Mundra marine 02838-224077	-
8	CHIEF OFFICER GANDHIDHAM	MEMBERS	Gandhidham Municipality, Rotary Marg, Opposite Rotary Bhavan, Ward 12A, Gandhidham, Gujarat 370201	+91 – 2832 250650	-
9	CHIEF OFFICER ANJAR	MEMBERS	Veer Bhagatsing Bhavan, Anjar-kachchh	02836-242544	-
10	FIRE OFFICER KPT	MEMBERS	Kandla, Gandhidham Gujarat	02836-270176	-
11	FIRE OFFICER Gandhidham (municipality)	MEMBERS	5, Anjar - Adipur - Gandhidham Rd, Ward 2A, Adipur, Kandla, Gandhidham, Gujarat 370230	02836-226573	-
12	FIRE OFFICER IFFCO	MEMBERS	26M8+C6R, Port Colony, Kandla, Gujarat 370210	02836-270352	-
13	TDO - GANDHIDHAM	MEMBERS	Taluka Panchayat,Gandhidham-370201	02836-280236	-
14	TDO - ANJAR	MEMBERS	Taluka Panchayat, Anjar-370110	02836-242595	-
15	DIST. HEALTH OFFICER	MEMBERS	Jilla Panchayat, opp- Surmandir Multiplex-Bhuj-370001	02832-252207	-
16	PETROLEUM AND EXPLOSIVE SAFETY ORGANISATION	MEMBERS	Joint Chief Controller Of Explosive, park paradise,9th floor , vadsar,vadodra-390001	0265-2361035	-
17	POLLUTION CONTROL BOARD (REGIONAL OFFICER)	MEMBERS	Gujarat Pollution Control Board, Kutch East, Room No. 215-216-217, Deendayal Port Authority Administrative Building, Sector 8, Gandhidham-370205, Kutch-Gujarat	02836 230828	-
18	REGIONAL TRANSPORT OFFICER	MEMBERS	Near Military Garison, Madhaper Road, Bhuj - 370000.	02832 221950	-
19	DGM (Fire and Safety), IFFCO-Kandla	TECHNICAL EXPERTS	(IFFCO) Kandla Unit Dist- Kutch-370210 , Gujarat	0283625-4678	-

20	COST GUARD – KANDLA	MEMBERS	Principal Officer (I/c), Plot No. 16, Sector-8, Government Office Area, Behind KPT Admin Building, Gandhidham, Gujarat - 370201	02836-297015 / 297127 / 28 M:09869524114	-
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LCG - BHUJ

Sr no.	Office / Dept. Designation	Position In LCG	Office / Department	Phone Number	
				Office	Mobile / Residence
1	SDM & Dy. Collector, Bhuj	CHAIRMAN	Office of the SDM & Dy. Collector, Bhuj	(02832) 251007	99784 05099
2	Supt. of Police – West	MEMBERS	SP Office, Bhuj	(02832) 250444	99784 05073
3	Industrial Safety & Health Officer, Kutch	MEMBER SECRETARY	Plot No. 66, ward 1-b Adipur, Kutch.	(02836) 260020	75670 61887
4	Taluka Development Officer	MEMBERS	Bhuj	(02832) 256851	85119 75019, 75670 13588
5	Fire Dept. Bhuj Nagarpalika	MEMBERS	Fire Station, Bhuj, Kutch.	101 (02832) 247030	99251 70506 99254 28576
6	Taluka Health Officer	MEMBERS	Bhuj	99099 49314	
7	UHC Medical Officer	MEMBERS	Bhuj	99099 49362	
8	Superintendent of CHC	MEMBERS	Khavda	75678 76190	
9	Distt. Agricultural Officer	MEMBERS	Jilla Panchayat Office, S.T.Road, Bhuj	(02832) 221155	70960 62781
10	POLLUTION CONTROL BOARD - Bhuj (REGIONAL OFFICER)	MEMBERS	BHUJ	(R) 02832-250620	(M) 89800 24227
11	RTO Bhuj	MEMBERS	RTO OFFICE, BHUJ	02832-221950	80002 56555
12	PETROLEUM AND EXPLOSIVE SAFETY ORGANISATION	MEMBERS	(O) 8 TH FLOOR, YASHKAMAL BIL. VADODARA	0265-2361035	
13	Deputy Director Information	MEMBERS	BHUJ	02832-224859	94291 99886
14	FIRE DEPARTMENT- BHUJ NAGARPALIKA Emergency Response Center Gandhidham	MEMBERS	Fire Station, Bhuj	(O) 02832 247020 02832 299080	(M)99251 70506 99251 70254 98255 72188
15	EHS Head,	TECHNICAL EXPERTS	Agrocel Industries Ltd, Bhuj	-	6354917258
16	EHS Head,	TECHNICAL EXPERTS	Balkrishna Industries, Bhuj	-	8779990100

LCG - MUNDRA

Sr no.	Office / Dept. Designation	Position In LCG	Office / Department	Phone Number	
				Office	Mobile / Residence
1	SDM & Dy. Collector, Mudra	Chairman	Office of the SDM & Dy. Collector, Mundra	(02838) 223112	942723570
2	Assist. Director (IS&H), Kutch	Member Secretary	Plot No. 66, ward 1-b, Adipur, Kutch.	(02836) 260020	9429898081
3	TDO, MUNDRA	MEMBERS	Taluka Panchayat, Mundra	(02838)222128	9023996617
4	Suptd. of Police - East	MEMBERS	SP Office, Gandhidham	(02836) 280233	9978405690
5	Fire Dept. Gandhidham Nagarpalika	MEMBERS	Fire Dept. Gandhidham Nagarpalika	(02836) 226573	-
6	Fire Station, KPT, Kandla.	MEMBERS	Fire Station, KPT, Kandla	(02836) 270176	9825227041
7	Fire Station Adani Port Mundra	MEMBERS	Fire Dept. Control Room	02838 289310/289101	7069083035
8	Taluka Health Officer	MEMBERS	Jilla Panchayat Office, S.T. Road, Bhuj.	(02838) 222144	6354264142
9	Gujarat Pollution Control Board, East-Regional Officer	MEMBERS	GPCB, DPT Office, Gandhidham	(02836)	6359961891
10	ARTO Anjar	MEMBERS	ARTO OFFICE, ANJAR	-	99252 85598
11	Dist. Agricultural Officer	MEMBERS	Jilla Panchayat Office, S.T.Road, Bhuj	(02832) 221155	70960 62781
12	Gujarat Pollution Control Board, West-Regional Officer	MEMBERS	Gujarat Pollution Control Board, Bhuj	(02832) 250620	8980024227
13	DGM (Fire and Safety), IFFCO-Kandla	TECHNICAL EXPERTS	IFFCO, Old Kandla	-	9979026415
14	DGM-HSE, Dorf ketal industries, Mundra	TECHNICAL EXPERTS	Dorf ketal industries ,Mundra	-	9637681288
15	GM-Ops, Ahir Salt & Allied Products Pvt. Ltd. Kandla	TECHNICAL EXPERTS	Ahir Salt & Allied Products Pvt. Ltd. Kandla	-	9925247904

## DCG- Mehsana

Sr.No	Office /Dept Designation	Position in DCG	Office / Department	Phone Number	
				Office	Mobile Residence
1	District Collector	Chair Person	Office of The District Collector Mehsana	02762-222200/11	9978406214
2	Resident Add. Collector	Member	Office of The District Collector Mehsana	02762-222203	9878405213
3	Superintendent of Police	Member	Office of The Superintendent of Police Mehsana	02762-222301 / 02	9978405074
4	District Development Officer	Member	Office of The District Development Officer	---	9978406239
5	Deputy Director Industrial safety and Health	Member Secretary	Office of The Deputy Director Industrial safety and Health , Mehsana	02762-231501	9173380108
6	District Information Officer	Member	Office of The District Information Officer	02762-221888	9426352750
7	Civil Surgeon	Member	Civil Hospital Mehsana	02762-221784	6352874176
8	District Agricultural Officer	Member	Office of The District Agricultural Officer	02762-222316 /17	8511194625
9	S.D.M. & Deputy Collector Mehsana	Member	S.D.M Office Mehsana	02762-222206	9978405186
10	S.D.M. & Deputy Collector Kadi	Member	S.D.M Office Kadi	02764-240193	7567008421
11	S.D.M. & Deputy Collector Visnagar	Member	S.D.M Office Visnagar	02765-223913	9537614641
12	Commandant Home guard (Civil Defence)	Member	Commandant Home guard Office Mehsana	02762-222133	9825268700
13	Regional officer G.P.C.B.Mehsan	Member	G.P.C.B.Mehsan	7990289213	9427307939
14	Chief Fire Officer Nagarpalika Mehsana	Member	Nagarpalika Mehsana	02762-223287	9725059228
15	Chief Fire Manager O.N.G.C. Mehsana	Member	O.N.G.C. Mehsana	02762-225606 /262567	9969222721
16	R.T.O. Mehsana	Member	R.T.O Office Mehsana	02762-251078	7016407591
17	D.H.O. Mehsana	Member	D.H.O.Office Mehsana	02762-221784 /221217	9726805366
18	Deputy Chief Controller of Explosive Vadodara	Member	Office of The Deputy Chief Controller of Explosive Vadodara	02765-242051	---
19	Chief Electrical Inspector Mehsana	Member	Chief Electrical Inspector, Office Mehsana	02762-251155	9808267827
20	Chief Officer Nagarpalika Mehsana	Member	Nagarpalika Mehsana	02762-254468	9328170506
21	General Manager B.S.N.L.Mehsana	Member	B.S.N.L.Mehsana	02762-255236	9414001116

LCG – Kadi

Sr.No	Office /Dept Designation	Position in LCG	Office /Department	Phone Number	
				Office	Moble Residence
1	SDM & DEPUTY COLLECTOR,KADI	CHAIRMAN	SDM & DEPUTY COLLECTOR OFFICE,KADI	02764- 240193	7567008421
2	ASSISTANT DIRECTOR INDUSTRIAL SAFETY & HEALTH MEHSANA	MEMBER SECRETARY	DEPUTY DIRECTOR INDUSTRIAL SAFETY & HEALTH OFFICE, MEHSANA	02762- 231501	9601298852
3	D.Y.S.P. MEHSANA	MEMBER	D.Y.S.P. OFFICE,MEHSANA		9978407391
4	MAMLATDAR, KADI	MEMBER	MAMLATDAR OFFICE, KADI	02764- 242355	9979492479
5	FIRE OFFICER , KADI	MEMBER	FIRE STATION, KADI	02764- 265236	9574391618
6	DIVISIONAL CONTROLLER (GSRTC),KADI	MEMBER			
7	T.D.O. KADI	MEMBER	TALUKA DEVLOPMENT OFFICER KACHERI, KADI	02764- 242752/24 2485	8460843260, 8200782885
8	AKSHAR CHEM. IND. LTD PLOT 166/169 AT-INDRAD, TA-KADI.	MEMBER			9898069823
9	AKSHAR CHEM. IND. LTD (GREEN DIVISION) PLOT 167/169 AT-INDRAD, TA-KADI.	MEMBER			9898069823
10	PHAMSON CHEMICALS AT- RAJPUR, TA-KADI	MEMBER			9824014373
11	AMBUJA INTERMIDIATS LTD, PLOT NO-1152 AT-RAJPUR, TA- KADI	MEMBER			9825175346
12	NIRMA LTD. AT-MANDALI, MEHSANA	MEMBER			9825073100

## DCG - Morbi

Sr. No.	Office/Dept. Designation	Position in DCG	Office / Department	Phone Numbers	
				Office	Mobile /Residence
1	District Collector	Chair person	District Collector	02822-240701	9978405932
2	Deputy Director Industrial Safety and Health	Member Secy.	Deputy Director Industrial Safety and Health	02228 -242350	6356399955
3	Regional Officer	Member	Gujarat Pollution Control Board	02822-228001	9426931820
4	Fire Officer	Member	Municipal Corporations, Morbi	02822-230050	9979027520
5	Assistant director District Information Officer	Member	District Information Officer	02822-241012	9426783850
6	Deputy Superintendent of Police	Member	Deputy Superintendent of Police	028222-40909	9909462667
7	District Health Officer	Member	District Health Officer/Chief Medical Officer	02822-222707	7573993400
8	Commissioner	Member	Municipal Corporations, Morbi	02822-230050	9978422063
9	Technical Experts	Member	Mr.Kanhaiya S. Singh (Simpolo Vitrified)		6357303440
10	Technical Experts	Member	Mr.Kuldeep Khumansinh Gadhavi (Dev Salt)		9979995458
11	Technical Experts	Member	Mr. Narendra G. Barhat (Gujarat Gas)		9904180562
12	Technical Experts	Member	Mr.Nilesh R. Dharecha Calderys India Refractories		9023727278
13	ARTO	Member	ARTO	02822-297410	9909622417
14	Sub Divisional Magistraite-Morbi	Member	Sub Divisional Magistraite-Morbi	02228 -242300	7567009392

15	Sub Divisional Magistrate-Wankaner	Member	Sub Divisional Magistrate-Wankaner	02828 -223690	7567009407 7698748477
16	Assistant Director Industrial Safety and Health	Member	Deputy Director Industrial Safety and Health	02228 -242350	9408116989
17	Industrial Safety and Health, Officer	Member	Deputy Director Industrial Safety and Health	02228 -242350	8866824751
18	District Disaster Management Control room	Member	District Disaster Management Control room	02228-243300	7874387678
19	Civil Defence, Morbi	Member	Civil Defence, Morbi	02822-241488	8141775377

LCG - Morbi

Sr. No.	Office/Dept. Designation	Position in DCG	Office / Department	Phone Numbers	
				Office	Mobile /Residence
1	Sub-divisional Magistrate , Morbi	Chair person	Sub-divisional Magistrate	02228 -242300	7567009392
2	Industrial Safety and Health Officer	Member Secy.	Deputy Director Industrial Safety and Health	02228 -242350	8866824751
3	ARTO	Member	ARTO	02822-297410	9909622417
4	Fire Officer	Member	Municipal Corporations, Morbi	02822-230050	9979027520
5	TDO (Taluka Development Officer)	Member	TDO (Taluka Development Officer)	02822-230933	7567019249
6	Taluka Police Inspector	Member	Police Inspector		9712947419
7	Officer	Member	Gujarat Pollution Control Board	02822-228001	9574467500
8	Civil Hospital	Member	Civil Hospital	02822-230538	7567876154
9	Dy. Commissioner	Member	Municipal Corporations, Morbi	02822-230050	9978422809
10	Technical Experts	Member	Mr. Kanhaiya S. Singh (Simpolo Vitrified)		6357303440
11	Technical Experts	Member	Mr.Kuldeep Khumansinh Gadhavi (Dev Salt)		9979995458
12	Technical Experts	Member	Mr.Narendra G. Barhat (Gujarat Gas)		9904180562
13	Technical Experts	Member	Mr.Nilesh R. Dharecha Calderys India Refractories		9023727278
14	One Representative of Industry	Member	Mr. Narendra G. Barhat (Gujarat Gas)		9904180562
15	Civil Defence, Morbi	Member	Civil Defence, Morbi	02822-241488	8141775377
16	Samarpan Multi Speciality Hospital	Member	Privet Doctor		9512433133
17	Krishna Multi Speciality Hospital	Member	Privet Doctor	02228-224492	

LCG- Wankaner

Sr. No.	Office/Dept. Designation	Position in DCG	Office / Department	Phone Numbers	
				Office	Mobile /Residence
1	Sub-divisional Magistrate, Wankaner	Chair person	Sub-divisional Magistrate	02828 -223690	7567009407 7698748477
2	Assistant Director Industrial Safety and Health	Member Secy.	Deputy Director Industrial Safety and Health	02228 -242350	9408116989
3	ARTO	Member	ARTO	02822-297410	9909622417
4	Fire Officer	Member	Municipal Corporations,	02822-230050	9979027520
5	TDO (Taluka Development Officer)	Member	TDO (Taluka Development Officer)	02828-220715	8155025313
6	Officer	Member	Gujarat Pollution Control Board	02822-228001	9574467500
7	Taluka Police Station	Member	Police Inspector		6359626086
8	Community Health Centre	Member	CHC	02828-220588	9687417886
9	Chief officer	Member	Municipal Corporations, Wankaner	02828-220510	9978400065
10	Technical Experts	Member	Mr.Narendra G. Barhat (Gujarat Gas)		9904180562
11	Technical Experts	Member	Mr.Nilesh R. Dharecha Calderys India Refractories		9023727278
12	One Representative of Industry	Member	Mr.Pradip D. Dhadhal (Gokul Snaks ltd)		9624044949
13	Civil Defence, Morbi	Member	Civil Defence, Morbi	02822-241488	8141775377
14	Apex Hospital, Raffleswar	Member	Privet Doctor		9537937907

## DCG- Navsari

Sr. No.	Office /Dept. Designation	Position in DCG	Office /Department	Phone numbers	
				Office	Mobile/Residence
1.	District Collector	Chairperson	(O)Collector Office, Kaliya wadi, Navsari	(O)(02637)244999	(R)(02637)246000 (M)99784 06215
2.	Assistant Director Industrial Safety & Health	Member Secretary	Juna Thana, Navsari	(O)(02637)230745	(M)9913774913
3.	District Emergency Operation centre	Member	Juna Thana, Navsari	(O)(02637)233002	(M) 9328937011
4.	Station Fire Officer	Member	Fire office, Navsari	(O)(02637)259001	(M)9925752017
5.	District Information Officer	Member	Information Office, Juna Thana, Navsari	(O)(02637)244914	(M)9726034321
6.	Controller of Explosive	Member	Explosive Department	(O)(0265)2361035, 2225159	(O)(0265)2361035, 2225159
7.	Chief civil defence	Member	Civil Defense	(O)(02637)258033	(O)(02637)258033 (M)9978405214
8.	Superintendent of Police	Member	Department of Police	(O)(02637)233888	(R)(02637) 245333 (M)99784 05075
9.	District Health Officer	Member	Health Department	(O)(02637) 280143	(O)(02637)244999
10.	Commissioner ,Municipal Corporation	Member	Municipal Corporation	(O)(02637)250253	(O)(02637)250253 (O)(02637)250254
11.	Regional Officer,Pollution Control Board	Member	Pollution Control Board	(O)(02637)247649	(O)(02637)247649 (M)9099046402
12.	District Agriculture Officer	Member	Agriculture Department	(O)(02637)233030	(O)(02637)233030 (M)9664591255
13.	Industrial Expert	Member	Windson Chemical Pvt Ltd, Chikhli, Navsari	(O)9974005824	(M)9925330263
14.	Industrial Expert	Member	Swastik oil Products Pvt Ltd., Khadsupa, Navsari .	(O)(02637)225613	(M)9426313461 (R)(02637)225613
15.	Industrial Expert	Member	Sahkari Khand Udhog Mandal Ltd., Gandevi, Navsari	(O)(02634)262742	(M)9879112486
16.	Industrial Expert	Member	Gufic Biosciences Ltd., Kabilpore, Navsari	(O) 6359921204	(M)7228993413
17.	Transport Department	Member	Road Transport office, Navsari	(O)(02637)227525	(O)(02637)227525 (M)9825595209
18.	Chair Person of Local Crisis Group	Member	(O)Collector Office, Kaliya wadi, Navsari	(O)(02637)244999	(O)(02637)244999 (M)9978405187

LCG – Navsari

Sr. No.	Office /Dept. Designation	Position in DCG	Office /Department	Phone numbers	
				Office	Mobile/Residence
1.	Sub Divisional Megistrate	Chairperson	(O)Collector Office, Kaliya wadi, Navsari	(O)(02637)244999	(O)(02637)244999 (M)9978405187
2.	Assistant Director Industrial Safety & Health	Member Secretary	Juna Thana, Navsari	(O)(02637)230745	(M)9913774913
3.	District Emergency Operation centre	Member	Juna Thana, Navsari	(O)(02637)233002	(M) 9328937011
4.	Member From Industry	Member	Windson Chemical, Pvt Ltd, Chikhli, Navsari	(O)9974005824	(M)9925330263
5.	Member From Industry	Member	Swastik oil Products Pvt Ltd., Khadsupa, Navsari	(O)(02637)225613	(M)9426313461 (R)(02637)225613
6.	Member from Industry	Member	Sahkari Khand Udhog Mandal Ltd., Gandevi, Navsari	(O)(02634)262742	(M)9879112486
7.	Member From Industry	Member	Gufic Biosciences Ltd.,Kabilpore, Navsari	(O) 6359921204	(M)7228993413
8.	Station Fire Officer	Member	Fire office, Navsari	(O)(02637)259001	(M)9925752017
9.	Chief civil defence	Member	Civil Defense	(O)(02637)258033	(O)(02637)258033 (M)9978405214
10.	District Health Officer	Member	Health Department	(O)(02637) 280143	(O)(02637)244999
11.	Divya bhaskar	Member	Local News Paper	(O)(02637)231450	(M)9375943999
12.	Sandesh	Member	Local News Paper		(M) 9898697867
13.	Superintendent of Police	Member	Department of Police	(O)(02637)233888	(R)(02637) 245333 (M)99784 05075
14.	District Health Officer	Member	Health Department	(O)(02637) 280143	(O)(02637)244999
15.	Regional Officer,Pollution Control Board	Member	Pollution Control Board	(O)(02637)247649	(O)(02637)247649 (M)9099046402
16.	District Information Officer	Member	Information Office, Juna Thana,Navsari	(O)(02637)244914	(M)9726034321
17.	Transport Department	Member	Road Transport office, Navsari	(O)(02637)227525	(O)(02637)227525 (M)9825595209

## DCG-Panchmahal

Sr. No	Office/Dep.Designation	Position In DCG	Office/Department	Phone No	
				Office	Mobile
1	District Collector, Panchmahal	Chair person	District Administration	02672-242800	9978406217
2	Deputy Director Industrial Safety and health	Member Secretary	Deputy Director Industrial Safety and health, Godhra	02672-241870	9662021546
3	Sub Divisional Magistrate, Godhra	Member	District Administration	02672-2429339	8780713510
4	Sub Divisional Magistrate, Halol	Member	District Administration	02672-220277	7567010884
5	Executive Engineer, Godhra	Member	MGVCL	02672-262205	9925208270
6	Chief District Health Officer	Member	District Health office , Godhra	02672-253367	7567893300
7	Regional Manager,	Member	GPCB, panchmahal	02672-245869	9427710988
8	Regional Transport officer	Member	RTO, Panchmahal	02672-242724	9054074094
9	Deputy Director Information	Member	Office of Deputy Director Information	02672-249111	9687609143
10	District Agricultural Officier	Member	Office of District Agricultural	02672-253371	9106101267
11	Fire officer	Member	District Municipal Corporation	-	7567124114
12	Mr. Rajesh Patel ( Tech operation.)	Member	KUSA CHEMICALS PVT. LTD. Godhra, Panchmahal	-	70211 31392
13	Mr. Nikhil Raje, (R&D Operation ),	Member	GUJARAT FLUOROCHEMICALS LTD. Ghoghamba, Panchmahal	-	9925039836
14	Dr.Mayank Joshi (EHS Head)	Member	PAUSHAK LIMITED Halol, Panchmahal	-	6356205131
15	Mr. parvej Bata (Plant Head)	Member	STYRENIX PERFORMANCE MATERIALS LIMITED At - katol, kalol, Panchmahal	-	999029148

## DCG- Patan

Sr.No	Office /Dept Designation	Position in DCG	Office / Department	Phone Number	
				Office	Moble Residence
1	District Collector	Chair Person	Office of The District Collector Patan	02766-233301	
2	Resident Add. Collector	Member	Office of The District Collector Patan	02766-233304	
3	Superintendent of Police	Member	Office of The Superintendent of Police Patan	02766-230104	
4	District Development Officer	Member	Office of The District Development Officer	02766-232936 234294	
5	Deputy Director Industrial safety and Health	Member Secretary	Office of The Deputy Director Industrial safety and Health , Mehsana	02762-231501	9662509841
6	Mamlatdar Disaster Patan	Member	Mamlatdar Disaster Patan	02766-232240	
7	District Information Officer	Member	Office of The District Information Officer	---	9737221897
8	Civil Surgeon	Member	Civil Hospital Patan	02766-233311 232660	
9	District Agricultural Officer	Member	Office of The District Agricultural Officer	02766-222317	
10	S.D.M. & Deputy Collector Sidhpur	Member	S.D.M Office Sidhpur	02767-220215	
11	Regional officer G.P.C.B. Patan	Member	G.P.C.B.Patan		7984139698
12	Chief Officer Nagarpalika Patan	Member	Nagarpalika Patan	02766-233230	
13	Manager I.O.C.L Sidhpur	Member	I.O.C.L Sidhpur		9488069073
14	R.T.O. Patan	Member	R.T.O Office Patan	02766-223100	6357182441
15	D.H.O. Patan	Member	D.H.O.Office Patan	02766-233301	
16	Project Officer, Disaster Cell,Patan	Member	Project Officer, Disaster Cell,Patan	----	94265333915

PORBANDAR DCG

SR. NO	OFFICE / DEPT. DESIGNATION	POSITION DCG	OFFICE/DEPARTMENT	PHONE NUMBERS	
				OFFICE	MOBILE/RESIDENCE
1	District Collector	Chair Person	Jillasevasadan, Collector Office, Porbandar, Dist-Porbandar	286 2221800	9978406219
2	Dy. Director Industrial Safety & Health	Member Secretary	Dy. Director Industrial Safety & Health, Junagadh, Sardar Baug, Junagadh-362001	2852636946	9429604342
3	Sub Divisional Megistrate	Member	Jillasevasadan, Collector Office, Porbandar, Dist-Porbandar	286 2220916	9978405359
4	Deputy Superintendent Of Police	Member	Office of The Dy. Superintendent Office, Porbnadar, Dist-Porbandar	0286-2240957	9825210420
5	Municipal commissioner	Member	Nagar sevasadan, railway station road, porbandar.	-	9909950695
6	Chief Fire Officer	Member	Nagar sevasadan, railway station road, porbandar	0286-2240936	6358318790
7	District Health Officer	Member	Jilla panchayat, s.t.bus stand road, porbandar	0286-2240923	9727730003
9	District Information Officer	Member	Jillasevasadan, sandipani road, porbandar.	02862222470	9825263775
10	Representative Of Pollution Control Board	Member	Sandip Complex, Opp. Madhvani College NarsangTekri, Porbandar-380577	0286-2220050	9925309329
11	District Agriculture Officer	Member	Jilla panchayat, s.t.bus stand road, porbandar	2862252809	9428242657
12	Transport Officer	Member	ARTO OFFICE, DEGAM , PORBANDAR	2862222215	9712033330
13	EXECUTIVE ENGINEER, PGVCL, PORBANDAR	Member	NEAR FIRE BRIGED OFFICE, PORBANDAR	2862221315	8200610756
14	EXECUTIVE ENGINEER, GWSSB, PORBANDAR	Member	NEAR COLLECTOR BUNGLOW, CHOPATI ROAD, PORBANDAR.	2862235456	9723667990
15	EXECUTIVE ENGINEER, IRRIGATION, PORBANDAR	Member	JILLA SEVA SADAN -2, SANDIPANI ROAD, PORBANDAR.	--	7990538652
16	EXECUTIVE ENGINEER, ROAD & BUILDING DEPARTMENT, PORBANDAR	Member	NEAR COLLECTOR BUNGLOW, CHOPATI ROAD, PORBANDAR.	--	
17	Expert From Industry-	Member	SHV Energy Pvt Ltd,-Super gas,Javarnaka, Porbandar, Dist-Porbandar	--	9879523253
18	Expert From Industry-	Member	ADANI TOTAL GAS LTD., GIDC DHARAMPUR, PORBANDAR.	--	9512011398

19	Expert From Industry-	Member	SAURASHTRA CEMENT LTD, RANAVAV, DIST. PORBANDAR	--	9979712535
20	Expert From Industry-	Member	SAURASHTRA CHEMICALS LTD. PORBANDAR	--	9510758585
21	Expert From Industry-	Member	ORIENT CERATECH LTD. PORBANDAR	-	9429217510
22	Expert From Industry-	Member	AMAR FOODS PVT LTD	--	9925443004
23	Expert From Industry-	Member	SILVER STAR EXPORTS	--	9824498358

## DCG - Rajkot

Sr No	Name Designation	Position in DCG	Office	Telephone Numbers	
				Office	Residence
1	Dr. Om Prakash ,I.A.S District Collector, RAJKOT	Chairman	Office of District Collector,Rajkot	(0281) 2473900- 2479351	2472900, Mo:9978406220
2	Shri N.R. Chaudhari Deputy Director (IS&H), Rajkot	Member Secretary	Office of the Joint Director,Industrial safety& Helth,7/7,M.S. Building,R.C.Road Rajkot	(0281) 2443280 Fax-2442801	9429307677
3	Shri Tushar Sumera,I.A.S Municipal Commisioner Municipal Corporation,Rajkot	Member	Dr Ambedkar Bhavan Municipal Corporation,Rajkot	(0281) 2224133 2224258	9714503701
4	Shri Anandu Suresh Govind I.A.S District Development Officer	Vice Chairman & Materials Coordinator	District Development Office, District Panchayat,Rajkot	(0281) 2477008, Fax- 2479128	2477144, 9978406245
5	SDM & Dy. Collector, Rajkot SDM & Dy. Collector, Rajkot	Chairman LCG Rajkot	District Collector Office,Rajkot	(0281)2479042	2472035, 7567009408
6	SDM & Dy. Collector, Gondal SDM & Dy. Collector,Gondal	Chairman LCG, Gondal- Jetpur.	Office Of The SDM & Dy. Collector. Gondal.	(02825) 220008	220003, MO:756700953 6
7	District Supritendent of Police District Suptd. of Police,Rajkot(Rural)	Security Coordinatior.	O/O The Dist.Suptd.of Police, Rajkot (RI),Rajkot	(0281) 2446333	2477221 9978405080
8	Deputy Supritendent of Police I/C.Dy. SP	Associate Security Coordinator		(0281) 2447317	9978408184
9	Chief Fire Officer Fire Superin-tendent	Fire Service Coordinator	Rajkot Municipal Corporation, Rajkot	(0281) 2227222	2226185, 9879515966

10	Chief Helth Officer Chief Dist. Health Officer	Medical Coordinator	District Panchayat,Rajkot	(0281) 2443235 2479148	2476361, 9727709639
11	Civil Surgeon Civil Surgeon	Associate Medical Coordinator	Hospitalchok,Rajkot.	(0281) 2477442, 2470002.	
12	GM Telecom GM Telecom	Communi- cation Coordinator	Bilding Of Bhakti Nagar Telephon Exchange.Loha Nagar,Rajkot.	(0281) 2378800. 2378801. Fax-2378802	9427214641
13	Supritendent Engineer Superintending Engg	Utilities Coordinator	Rajendra Prasad Road,Rajkot	(0281) 2445291  2459696	
14	Agricultural Officer Distt. Agricultural Officer	Associate Utilities Coordinator	Jilla Panchayat Compd.Rajkot	(0281) 2440889	9429043008
15	RTO Officer RTO	Transport Coordinator	Near Marketing Yard,Rajkot.	(0281) 2701833	Fax-2703366, MO:756702389 8
16	Executive Engineer Executive Engineer	Public Works Coordinator	Dr.Yagnik Road,Rajkot.	(0281) 2448937	
17	Regional Officer,GPCB Rajkot. Regional Officer,GPCB Rajkot.	Safety Coordinator	Racecourse, Rajkot	(0281) 2474524	9825622089
18	Dy. Chief Controller of Explosives  Dy. Chief Controller of Explosives	Associate Safety Coordinator			
19	SRPF Commandant Commandant, SRPF, Group -13	Rescue Coordinator		(0281) 2488420 Fax-2488588	
20	Joint Director of Information Joint Director of Information	Liaison & Public Relations Coordinator	Director of Information,Rajkot	0281 , 2223264, 2228513, 2232812	9978405786 Fax-2229325
21	Shri. Nikhil Niraj Sr. Manager	Expert Member	IOCL- Navagam	9771468534	
22	Shri. Vikarm Chaudhary Dy. Genaral Manager	Expert Member	IOCL- Jamnagar Road	7490004454	

23	Shri. Yasir Ahmad Sr. Manager	Expert Member	BPCL – Malyasan	8967833622	
24	Mr. K.G.Chandrala Plant Manager	Expert Member	Reliance Petro Marketing Ltd.	8128237876	
25	Shri. Gunakar Rao Vice President	Member	Tirth Agro Technology Pvt. Ltd.	7069020870	

LCG – RAJKOT- LODHIKA

Sr No	Name Designation	Position in LCG	Office	Telephone Numbers	
				Office	Residence
1.	SDM RAJKOT (CITY-2)	Chairman	Deputy collector Rajkot City-2 office, Old Collector office campus, Rajkot	0281 2450368	
2.	ity Police Station	Member	Rajkot	0281- 2459888	
3.	Civil Hospital Rajkot	Member	Jmnagar Road, Hospital Chowk, Opp SBI, Rajkot	0281 2471118	
4.	Asst. Director Industrial. Safety and Health	Member Secretary	7 <sup>th</sup> Floor, Block No:-07, Bahumali Bhavan, Race Course Road, Rajkot	0281 2443280	
5.	President Taluka Panchayat	Member	Taluka Panchayat, Rajkot	0281 2443951	
6.	Gujarat Pollution Control Board (GPCB)	Member	GPCB, Race Course, Ring Road, Rajkot	0281 2474524	
7.	NGO (BOLBALA TRUST)	Member	NGO Rajkot	0281 2243008	

LCG - KOTDA SANGANI-GONDAL

Sr No	Name Designation	Position in LCG	Office	Telephone Numbers	
				Office	Residence
8.	Prant Officer, Gondal	Chairman	Taluka Seva Sadan, 21-Station Plot, Gondal	02825- 220008	
9.	Kotda Sangani Taluka Police Station	Member	Sardar Chowk, Kotda Sangani	02827- 276226	
10.	Community Health Centre (CHC) Government Hospital	Member	CHC, Near Bus Station Road Kotdasangani Rajkot	7567876160	
11.	Assi. Director Industrial. Safety and Health	Member Secretary	7 <sup>th</sup> Floor, Block No:-07, Bahumali Bhavan, Race Course Road, Rajkot	0281- 2443280	
12.	President Taluka Panchayat	Member	Taluka Panchayat, Kotda Sangani	02827- 276223	
13.	Gujarat Pollution Control Board (GPCB)	Member	GPCB, Race Course, Ring Road, Rajkot	0281- 2474524	
14.	NGO SAHARA CHARITABLE TRUST	Member	NGO Kotda Sangani	0281- 2230810	

## DCG - SABARKANTHA

SR NO.	OFFICE/Dept. Designation	Position in DCG	Office/ Department	Office Number	Mobile/Residence Number
1	District Collector	Chair Person	REVANUE	02772 - 241001	02772 - 223001 M-9978406221
2	SDM & Asst. Collector	Member	REVANUE	02772 - 246012	02772 - 234101 M -9978405219
3	District Development Officer	Member	REVANUE	02772 - 242350	02772 - 222351 M -9978406246
4	Deputy Director I.S.&H.,	Member Secretary	DISH	079 - 23233231	M -9825334778 M -9624000903
5	Mamlatdar (Disaster Management)	Member	Disaster	02772-249039	9904114618
6	Regional Officer	Member	GPCB	02772-229273	M - 9879657547
7	Fire officer	Member	Fire Dept.	101 02772-246720	M - 9484888999
8	Dist. commandant home guard,	Member	home guard	02772-240616	M-9426750214
9	Dist. Health Officer	Member	Health	02772-246423	M-9687679002
10	Dist. Agricultural Officer	Member	Agriculture	02772-240359	9426399437
11	RTO	Member	R.T.O.	02772 - 222597 02772 - 223797	

## DCG – Surat

Sr. No.	Office/Dept Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/ Residence
1.	District Collector (Dr Subodh Pardhi IAS)	Chair Person	District Collector Office, Surat	(0) 0261 2655151 (0) 02612652525	(M) 99784 06222
2.	Alternate Additional Residence Collector (Shri Y. B. Jhala	Member	District Collector Office. Surat	(0) 0261 2669200	(M) 99784 05220
3.	Municipal Commissioner Mr. Banchhanidhi Pani, IAS	Member	SMC Office, Muglisara	(0) 0261 -242	(M) 97243 45000
4.	Alternate Dy. Municipal Commissioner Mr. C. Y. Bhatt	Member	SMC Office, Muglisara	(0) 0261 -243 5958	(M)97243 45008
5.	Police Commissioner (Shri Ajaykumar Tomar JPS)	Member	Commission ER Office, Athwalines, Surat	(0) 0261 2244440	(M) 99784 05858
6.	Additional Police romrmsslone Sector 2 Shri P. L. Mal IPS	Member	Commission ER Office, Athwalines, Surat	(0) 0261 2244446	(M) 99784 22505
7.	Superintendent Of Ms. Usha Rada IPS	Member	DSP Office, Athwalines, Surat	(0) 0261 2841831	(M) 99784 05082
8.	Fire Department (Mr. Basantkumar Pareek, Chief Fire Officer)	Member	Main Fire Station, Muglisara, Surat	(0) 02612450548	(M) 97243 45553
9.	Alternate Member (Mr. D. H. Eakhijani D .Chief Are Officer	Member	Main Fire Station, Muglisara, Surat	(0) 0261 -2230686	(M) 97243 45510
10.	Chief Dist. Health Officer (CDHO) Dr. H. J. Chaudhari	Member	Jilla Panchayat Bhavan, Surat	(0) 0261 - 2425751	(M) 97277 09504
11.	Alternate Member (Dr Ganesh Govekar) Regional Transport Officer (Mr. H.A.Patel) Technical Experts	Member	Member	(0) 0261 2977191	(M) 99139 77997
12.	DDO, Surat (Mr. D.S.Gadhvi, IAS)	Member	"VIKAS" D.D.O. Bungalow, Opp.Chopati Athhavahnes Surat	(0) 0261 2425751/ 55	(M) 9978406247
13.	Inspector Of Factories Dy. D I S H. Surat (Mr. K. A. Rawat)	Member secretary	Jilla Seva Sadan -2, 6th Floor, DISH Office, Surat	(0) 0261 2653502	(M) 63513 95434
14.	Petroleum And Explosive Safety Organisation (Mr. Sanjaykumar	Member	8 Th Floor, Yashkamal Bilding, Sayajiganj, Vadodara	2225159	9830675417
15.	Dy. Director- PESO Vadodara Pollution Control Board (Regional Officer) Mr. P.U. Dave	Member	338, Belgium Square. Surat	(0) 0261 -244 2696	(M) 7574827442
16.	Regional Transport Officer (Mr. H.A.Patel) Technical Experts	Member	RTO Office, Surat	(0) 0261 2977191	9913977997
17.	Mr. Nareshkumar Kaushik Vice President-HSE Technical Experts	Member	Reliance Industries, Hazira, Surat	(0) 0261 -663 5069	(M) 99980-11402

18.	(Mr. Nawal K. Gupta, Chief General Manager Technical Technical Experts	Member	Krishak Bharati Co- Operative Ltd. KRIBHCO		(M) 99784 47428
19.	(Mr. Rathindranath Chakraborty VP_HSE Technical Experts.	Member	Nippon Steel India Limited.Hazira, Surat		(M) 98185 42390
20.	(Dr. Pankaj Desai, Head. R & D, Colourtex) Technical Experts	Member	Colourtex Industries Limited Pandesara, Surat	(0) 0261 -289 0122	(M) 98250 57933
21.	(Mr. Rupesh Jambudi Agm Hse Manager Adani Hazira Port Industries	Member	Adani Hazira Port, Surat	(0) 02612207602	8980802504
22.	Representative (Mr. Pankajbhai Gandhi, GM, Colourtex) Industries Representative	Member	Colourtex Industries Limited, Pandesara, Surat O.N.G.C,	(0) 0261 -284 0039	9427504487
23.	(Shri. Vasudev A. Rao DGM HSE, O.N.G.C	Member	Ichhapor. Surat	(0) 0261 -2424767	(M) 9825532299
24.	Trade Union Representative Mr. Naishadh Desai	Member	God Dhod, Surat	(0) 0261 -6696210	
25.	Area HSE-F Hazira Society, Dpmc. Hazira Mr. Ja esh Ga ar	Member	vp- Reliance Industries Ltd. Hazira Surat	(0) 0261-6696210	(M) 9898937999
26.	Mutual Aid Group Formal Mutual Aid For Fire F 'Ohting Facillty Among Mah Of Hazrra Area (Mr. AravInd Induchoodan vp_ Fire	Member	RIL- Hazlra. Surat	(0) 0261 - 663 5069	(M) 9998215227
27.	Industries Emergency Medical Health Mutual Aid Arrangment Among The Hazra Area (Dr. Amar KapadyaCMO)	Member	Reliance Industries, Hazira, Surat	(0) 0261 - 283 5070	(M) 9724342074
28.	District Information Officer Member	Mr. K.J. Parmar Mr. M.M. Vekarta	Chowk Bazar, Killama, Surat	(0) 0261 2476385	(M) 9265284019 (M) 9913006598
29.	Western Railway Member	Mr.C.P. Khatavakar Station Master	Railway Station, Surat	02612540685	
30.	V. Magistrate (City)	Mr. R. R.	Jilla Seva	0261 -266	9712150615

	(Chairman- LCG — City) Member	Borad	Sadan-2, "A" Block, 3rd Floor, Athwallnes, Surat-395001	5800	
31.	DIV. Magistrate (Olpad) (Chairman LCG — O,pad, Choryasi) Member Sub	Mr. U.N. Jadeja	Taluka Seva Sadan, At. Olpad, Ta. pad Dist Surat	91-2621221244	(M) 9925645344 (M) 9978405223
32.	DIV. Magistrate (Bardoli) (Chairman LCG — Bardoil & Mahuva) Member	Mr. Smit Lodha IAS	Prant Office Bardoll, Taluka Seva Sadan, aluka-Bardoli, Dist. Surat	02622 - 221 124	(M) 9998714826 (M) 7028020108
33.	DIV. Magistrate (Kamrej) (Chairman LCG — Kainrej & Palsana) Member	Mr. K. G. Vaghela	Prant Office Kamrej, Kamrej Char Rasta. Taluka• Kamrej, District-Surat	02621 - 253 400	9825200106

LCG - Bardoli & Mahuva

Sr.no.	Office/Dept Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/Residence
1.	Sub DIMstonal Magistrate (Mr. Smit Lodha, IAS)	Chair Person	Office Of The SDM - Bardoli	(0) 02622-221 124	(M) 70280 20108
2.	Mr. S.G. Patel	Member Secretary	Jila Seva Sadan — 2. Sixth Floor, Athwalines, Surat	(0) 02612659501	(M) 9033729025
3.	Mamlatdar — Bardoli (Mr. Pratikkumar F. Patel)	Member	Mamlatdar Office Bardoli	(0) 02622220024	(R) 02622-255738 (M) 99784 04045
4.	Alternative Contact Mamlatdar Office Bardoli (Mr. Rajeshbhai Darmar D. Mamlatdar	Member	Mamlatdar Office Bardoli	(0) 02622220024	M. 9825775933
5.	Mamlatdar — Mahuva (Mr. D.V. Gar-nit)	Member	Mamlatdar Office Mahuva	(0) 02625220024	M. 81412 50313
6.	Alternative Contact Mamlatdar Office Bardoli Mr. T.N. Patel	Member	Mamlatdar Office Mahuva	(0) 02625220024	(M) 99099681 1 1
	Police Inspector Bardoli (Mr. P.V. Patel)	Member	Police Station, Bardoli	(0) 02622220168	(M) 99789 21234
8.	Police Sub Inspector Bardoli (Mr. M.B. Aahtr)	Member	Police Station, Bardoli	(0) 02622220168	(M) 83203 94145
9.	Police Sub Inspector Mahuva (Mr. B.B. Pardhane)	Member	Police Station. Mahuva	(0) 02625255733	(M) 90999 27736
10.	Chief Officer Bardoli (Mr. V haykumar N. Parikh	Member	Bardoli Nacar Palika, Bardoli	(0) 02622220085	(M) 98251 06060
11	Fire Officer (Mr. P. B. Gadhaq)	Member	Fire Station, Bardoli	(0) 02622220101	(M) 99743 35667
12.	TDO - Bardoli (Mr. R.H. Rathava (1 C))	Member	Bardoli Taluka Panchayat, Bardoli	(0) 02622220046	(M) 75670 15957
13.	TOO - Mahuva (Mr. A.H. Rathava)	Member	Mahuvpa Taluka Panchayat. Mahuva	(0) 02622. 255722	
14.	Dist. Health Officer (Dr. H. J. Chaudhan)	Member	Jilla Panchayat Bhasan. Surat	(0) 0261 - 242 5751	
15.	Spdt. CIVI (Dr. Ganesh Govekar)	Member	Superintenden t New CIMI Hos Ital-Surat	(0) (0261 ) 2244456/57	
16.	Petroleum And Explosive Safety Organjsatjon (Dr. Mrs. S. Sharma	Member	(0) 8 Th Floor. Yashkamal Bil. V adodara	(O)(0265)236 1 035, 2225159	

	Dy. D, rector- PESO Vadodara)				
17.	Pollution Control Board (Regional Officer) (Mr. Murlkishan Pasadi)	Member	338, Belgium Square, Surat	(0) 0261 -244 2696	(R) 0261- 242 9733 98250
18.	Regional Transport Officer (Mr. B.A. Patel)	Member	Rto Office, Surat	(0) 0261 2977191 9913977997	
19.	Technical Experts (Mr. Bhævsar)	Member	Bardoli Sugar	(0) 02622220170 72	(M) 94278 51755
20.	Technical Experts (Mr. Dipak S. Patel)	Member	Mahuva Sugar	(0) 02625256846	(M) 98794 91285
21.	Cost Guard – Daman (Mr.S.K.Bharthariya, Commandin Officer	Member	Daman	(0) 0260 2405703	

LCG - Surat City

Sr.no.	Office/Dept Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/ Residence
1.	SUB DIV. MAGISTRATE (CITY PRANT) (CHAIRMAN- LCG – 1 CITY PRANT)	MRS. NEHA SAVANI	JILLA SEVASADAN -2, A- BLOCK, THIRD FLOOR, ATHWALINES, SURAT	(O) 0261– 266 5800	(M) 97256 76767
2.	MEMBER SECRETARY (LCG –1 CITY PRANT)	MISS. S.H.PATEL	JILLA SEVASADAN -2, SIXTH FLOOR, ATHWALINES, SURAT	(O) 0261 – 265 3502	(M) 99250 18361
3.	MAMLATDAR KATARGAM (CITY PRANT)	MR. A.R.NAIK	DISTRICT COLLECTOR OFFICE- SURAT		(M) 99784 10601
4.	DEPUTY. COMMISSIONER OF POLICE (CONTROL) (DCP- ZONE-4)	MR. I.N.PARMAR	POLICE COMMISSIONER OFFICE (CONTROL)	(O) 0261 - 2734103	(M) 97257 87233
5.	CHIEF FIRE OFFICER	MR BASANTKUMAR PAREEK	MAIN FIRE STATION, MUGLISARA, SURAT	(O) 0261 - 2450548	(M) 97243 45553
6.	ALTERNATE (RANGE FIRE OFFICER)	MR. ABHIJIT GHADHAVI	MAIN FIRE STATION, MUGLISARA, SURAT (KAMREJ)	(O) 0261 -223 0686	(M) 76007 533333
7.	HEALTH OFFICER	DR. ANIL PATEL	JILLA PANCHAYAT BHAVAN	(O) 0261 – 242 5751	(M) 97277 09501
8.	ALTERNATE	DR. DHUVITRI PARMAR	I/C SUPERINTENDENT NEW CIVIL HOSPITAL- SURAT	(O) 0261 - 2208336	(M) 98258 94058
9.	POLLUTION CONTROL BOARD (REGIONAL OFFICER)	DR. JIGNASA OZA	PLOT NO.11-12/2-3, GIDC, PANDESARA, SURAT - 394221		(M) 98253 29663
10.	REGIONAL TRANSPORT OFFICER	MR. AKASH PATEL	RTO OFFICE, SURAT	(O) 0261 - 2977191	(M) 75748 51669
11.	a) TECHNICAL EXPERTS	MR. SUBHODHKUMAR MR.ANIL SHARMA	NAVIN FLOURIN INTERNATIONAL LTD., BHESTAN		(M) 97147 55221 (M) 96874 28730
12.	INDUSTRIES REPRESENTATIVE	MR. PANKAJ GANDHI, COLOURTEX	COLOURTEX INDUSTRIES LIMITED , PANDESARA	(O) 0261 - 289 0122	(M) 98250 98380
13.	DISTRICT INFORMATION OFFICER	MR. MAHENDRA VENKARIYA	1 <sup>ST</sup> FLOOR, OLD COURT BUILDING, BAHUMALI, NANPURA, SURAT	0261 - 247 6385	(M) 99258 05742 (M) 99130 06598

LCG - Kamrej & Palsana

Sr.no.	Office/Dept Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/ Residence
1.	SUB DIVISIONAL MAGISTRATE	SHRI V.K.PIPALIYA	OFFICE OF THE SDM- KAMREJ	(O) 02621-253400	(M) 99048 53252
2.	MEMBER SECRETARY (LCG –4 KAMREJ & PALSANA)	MR. R.R.JOSHI	JILLA SEVASADAN -2, SIXTH FLOOR, ATHWALINES, SURAT	(O) 0261 – 265 3502	(M) 94274 57537
3.	MAMLATDAR – KAMREJ	SHRI R.S.THAKOR	MAMLATDAR OFFICE KAMREJ	(O) 02621-252078	(M) 99984 23440
4	MAMLATDAR - PALSANA	SHRI M.V.PATEL	MAMLATDAR OFFICE PALSANA	(O) 02622-264228	(M) 98793 93186
5	POLICE INSPECTOR KAMREJ	SHRI A.D.CHAVDA	POLICE STATION, KAMREJ	(O) 02621- 252094/254999	(M) 80002 83507
6	POLICE INSPECTOR PALSANA	SHRI B.D.JALARIYA	POLICE STATION, PALSANA	(O) 02622- 264227/265785	(M) 97235 42043
7	POLICE INSPECTOR KADODARA	SHRI B.D.SHAH	POLICE STATION, KADODARA	(O) 02622-282035	(M) 7359993999
8	FIRE OFFICER	SHRI BIPIN KHALASI	FIRE STATION, KAMREJ		(M) 97243 45553
9	TDO - KAMREJ	SHRI SACHIN PATEL	KAMREJTALUKA PANCHAYAT, KAMREJ	(O) 02621-252087/ 255163	(M) 76982 87854
10	TDO – PALSANA	SHRI P.R.PATEL	PALSANA TALUKA PANCHAYAT, PALSANA	(O) 02622-264224	(M) 75670 15805
11	HEALTH OFFICER, KAMREJ	DR. BHAVIK KALSAGRA	SAMUHIK AROGYA KENDRA, KAMREJ	(O) 02621–252319	(M) 97277 09539
12	HEALTH OFFICER, PALSANA	Dr. MADHU KUMAR	SAMUHIK AROGYA KENDRA, PALSANA	(O)02622-220260	(M) 97277 09534
13	PETROLEUM AND EXPLOSIVE SAFETY ORGANISATION	MR.VENUGOPAL MR. TEJVEER SINGH DY DIRECTOR- PESO VADODARA	(O) 8 TH FLOOR, YASHKAMAL BIL. VADODARA	(O)(0265)2225159	(M) 9424626898
14	POLLUTION CONTROL BOARD (REGIONAL OFFICER)	DR. ARUN PATEL	338, BELGIUM SQUARE, SURAT		(M) 90990 25577

15	REGIONAL TRANSPORT OFFICER	MR. H.M. PATEL MR. AKASH PATEL	RTO OFFICE, SURAT	(O) 0261 –2977191	(M) 90990 51455
16	TECHNICAL EXPERTS	MR. SANJIV MITTAL	SPECTRUM DYES & CHEMICALS PVT. LTD.		(M) 90990 01400
17	TECHNICAL EXPERTS	MR. ANIRUDHDH PATIL	KAMREJ SUGAR		(M) 88665 44772
18	INDUSTRIES REPRESENTATIVE	MR. MUKUND MISTRY	SHRI CHALTHAN VIBHAG KHAND UDYOG SAHAKARI MANDALI LTD. CHALTHAN DIST. SURAT GUJARAT	(O) 0261 – 289 0122	(M) 99989 29890

LCG - Olpad & Choryasi

Sr.no.	Office/Dept Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/ Residence
1.	SUB DIVISIONAL MAGISTRATE	SHRI PARTH TALSANIYA	TALUKA SEVA SADAN-AT-OLPAD	(O) 02621-221244	90334 63736
2.	MEMBER SECRETARY	MR. S.A.CHAUHAN	JILLA SEVASADAN -2, SIXTH FLOOR, ATHWALINES, SURAT	(O) 0261 – 265 3502	<u>9722173500</u>
3.	MAMLATDAR – CHORYASI	SHRI NIRAVBHAI	JILLA SEVA SADAN-2, A BLOCK, 2 <sup>ND</sup> FLOOR, ATHWALINES,SURAT	(O) 0261-2663800 (M) 99984 23440	<u>8368976902</u>
4	MAMLATDAR - OLPAD	SHRI H.D.CHOPDA	MAMLATDAR OFFICE OLPAD TALUA SEVA SADAN, -OLPAD	(O) 02621-221259	<u>98251 85543</u>
5	SUPRINTENDENT OF POLICE	USHA RADA (IPS)	DSP OFFICE, ATHWALINES ,SURAT	(O) 02661- 2841831	<u>9978405082</u>
6	CHIEF FIRE OFFICER	MR.BASANT KUMAR PAREEK	MAIN FIRE STATION, MUGALISARA,SURAT	(O) 02661-2422285	<u>9724345553</u>
7	REGINAL FIRE OFFICER	SHRI AJIT SINH HADHAVI	MAIN FIRE STATION, MUGALISARA,SURAT	(O) 02661-2230686	<u>7600753333</u>
8	CHIEF HELATH OFFICER	SHRI CHIRAGBHAI	JILLA PANCHAYAT BHAVAN, SURAT	0261-2425751	97277 09527
9	MEDICAL SUPRETTENDENT	DR. GANESH GOVEKAR	NEW CIVIL HOSPITAL, MAJURA GATE, SURAT	(O) 02661-2244456	<u>9909906019</u>
10	TDO – CHORYASI	SHRI J.M.BORAT	CHORYASI TALUKA PANCHAYAT, CHORYASI	(O) 02621-221253	<u>7567015932</u>
11	TDO-OLPAD	MR. HARDIK GADHAVI	OLPAD TALUKA PANCHAYAT, OLPAD		<u>9033344889</u>
12	PETROLEUM AND EXPLOSIVE SAFETY ORGANISATION	MR. SANJAYKUMAR DY DIRECTOR- PESO VADODARA	(O) 8 TH FLOOR, YASHKAMAL BIL. VADODARA	(O)(0265)2225159	<u>9830675417</u>
13	POLLUTION CONTROL BOARD (REGIONAL OFFICER)	DR. ARUN PATEL	338, BELGIUM SQUARE, SURAT	(O)(0261)2442696	(M) 90990 25577
14	REGIONAL TRANSPORT OFFICER	MR. H.A. PATEL	RTO OFFICE, SURAT	(O) 0261 –2977191	<u>9913977997</u>
15	TECHNICAL EXPERTS	MR. SATISHCHANDRA SESHA	AM/NS INDIA LIMITED,HAZIRA, SURAT		<u>9998603969</u>

16	TECHNICAL EXPERTS	MR.NILAY VYAS	MANAGER-HSE, HAZIRA LNG PVT LTD	0261-3051009	9904103804
17	TECHNICAL EXPERTS	MR. MOHIT PAL	MANAGER-SAFETY, NTPC,	0261-2860375	8602955383
18	COST GUARD – DAMAN COMMANDING OFFICER	MR. S.K.BHARATHARIYA	DAMAN	(O) 0260-2405703	---

## DCG- Tapi

Sr.no.	Office/Dept Designation	Position in DCG	Office/Department	Phone Numbers	
				Office	Mobile/ Residence
1.	Chairman	Collector and District Magistrate.	Collector Office, Vyara	02626 (0) 224460 (R) 221281	Dr. Vipin Garg, IAS M.9978405364
2.	Member Secretary	Dy. Director, Industrial Safety and Health	Office of Joint Director, Industrial Safety and Health, Seva 1Sadon-2, Surat	0261- (0)2653501 , 2653502	Mr. B. A. Chauhan M. 9601269125
3.	Member	District Development Officer	Office of District Development Officer, Jilla Seva Sadan Com ound, V ara	02626 (0) 222141 (R) 222142	Mr. D. D. Kapadiya M.9978405263
4.	Member	Superintendent of Police	Office of Superintendent of Police, Jilla Seva Sadan Compound, V ara	02626 (0) 222070	St-nt. S. P. Majmudar M.9978405488
5.	Member	Resident Additional Collector, Tapi	Jilla Seva Sadan, Vyara	02626 (0) 02626 224450, 221281	Mr. R. J. Valvi M.9978405415
6.	Member	Chief Officer	Songadh Nagar Seva Sadan, Songadh	02624 (0)221689	Mrs. Purviben Patel M.95101681 16
7.	Member	Chief Fire Officer	Songadh Nagar Seva Sadan, Songadh	02624 (0)221689	Mr. Pravinbhai Sonvane Mo.9726278383
8.	Member	Chief Officer	Vyara Nagar Seva Sadan, Vyara	02626 (0)222022 (R) 220091	Mr. Shalleshbhai Patel M.9727533666
9.	Member	Chief Fire Officer	Vyara Nagar Seva Sadan, Vyara	02626 (0)220101	Mr. Sanjaybhai Panchal Mo.9825359589
10.	Member	Chief District Health Officer	Vyara, Tapi	02626-220376, 220003	Dr. H.B.Patel M.9099943336
11.	Member	Medical Officer	General Hospital, Vyara	02626- 220342	Mr. Naitik Chaudhari M.9727742501 , 9638650000
12.	Member	Medical Officer	Community Health Center. Songadh	02624 (0)222060	Dr. Vimal C. Patel M.7567873636
13.	Member	Medical Officer	Primary Health Center, Ukiah Bhurtvel	02624 0 233189	Dr. Bhavanaben M.9427226067
14.	Member	Mamlatdar, Songadh	Songadh Nagar Seva Sadan	02624 222023	Mr. M. R. Chaudhary M.7567007278
15.	Member	District Agriculture Officer	District Agriculture Officer, Japanish Farm. V ara	02626 0)-220365	Mr. S. B. Garnit 1%1.979468070
16.	Member	Executive Engineer, V ara	Gujarat Water Supply, Vyara	02626 (0) 220668, 220338	Mr. Dineshbhai Tandel M.9426779578
17.	Member	Regional Officer	Gujarat Pollution Control Board, Navsari	02637 (0) 280830. 2442696, 2429733	Mr. A. G. Patel %.98241 10053
18.	Member	Executive Engineer	DGVCL. Nr. Janak Smarak Hospital, D N Park, V ara	02626 (0) 220165	Mr. J. N. Patel M.9879200771
19.	Member	District Information Officer	Jilla Seva Sadan, Vyara	02626 (0) 222980	Mr. Sanjay R. patel M.743605241 1

20.	Member	Regional Transport Officer	A.R.T.O. Office, Vyara	02626 (0) 223457.223390	Mr. D. V. Chaudhary I.c.
21.	Member	Taluka Development Officer	Taluka Development Office, Songadh	02624 (0) 222025, 222130	Mr. Asha Vasava M.7567018481
22.	Member	Block Health Officer	Office of Block Health Officer, Son adh	02624 (0) 2203031 (R) 223071	Mr. Deepak Chaudhary M.9727709586
23	Member(Expert)	Chief Manager- EHS	J. K. Paper Ltd. (Unit: CPM), Son adh	(02624) (O)—Extension 305193	Mr. Mahendra Singh M.9328921 157
24.	Member(Expert)	Safety Manager	Gujarat State Electricity Corporation Limited, Ukai Thermal Power Station	(0) 99252 08975	Mr. N. M. Patel, M. 9925213143
25.	Member Employees Union	President	CPM Employees Union. J. K. Paper Ltd. (Unit: CPM), Son adh		Mr. Kishanbhai Gamit M.9537593421
26.	Member	Deputy Chief Controller of Explosive	Vadodara Circle Office Joint Chief Controller of Explosives 9th floor, Park Paradise Vadsar, Vadodara (Gujarat) 390012	0265 (0)2361035 2225159 (R)2343078	Sanjaykumar M.9830675417
27.	Member	Station Superintendent	Railway Station. Vyara	02626-220007	Mr. B. C. Patel M.9724099989

DCG Vadodara

Sr No.	Office/ Dept. Designation	Position in DCG	Office/Department	Phone numbers	
				Office	Mobile / Residence
1.	District Collector	Chair Person	Collector Office	Collector Office, Nr. Vaccine Institute, Diwalipura, Padra Road, Vadodara	0265-2424402
2	Deputy Director, Industrial Safety and Health	Member Secretary	Industrial Safety and Health	Office Of The Joint Director, Industrial Safety and Health, Vadodara	0265-2432543
3	Police Commissioner	Member	Police Commissioner	Police Commissioner , Police Bhavan, Jail Road, Vadodara	9978406273
4	Superintendent of Police	Member	Superintendent of Police	Superintendent of Police (Rural), Kothi, Vadodara	9978406094
5	Medical Superintendent	Member	Medical Superintendent	S.S.G. Hospital, Jail Road, Vadodara	9427322493
6	Municipal Commissioner	Member	Municipal Commissioner	Vadodara Mahanagar Seva Sadan, Khanderao Market, Vadodara	9978408744
7	Deputy Director of Information	Member	Deputy Director of Information	District Information Office, Kothi, Vadodara	9879961441
8	Regional Transport Officer	Member	Regional Transport Officer	Regional Transport Office, N.H.No.8, Golden Chowkdi, Darjipura, Vadodara	7567029299
9	Chief District Health Officer	Member	Chief District Health Officer	District Development Office, Rajmahal Road, Vadodara	8980039101 8980039103
10	Executive Engineer (R&B (City))	Member	Executive Engineer (R&B (City))	The Executive Engineer (R&B), West Wing, Kothi, Vadodara	9879275036
11	Jt. Director Of Agriculture	Member	Jt. Director Of Agriculture	Jt. Director Of Agriculture Office, Kothi, Vadodara	9825206598
12	Jt. Chief Controller Of Explosives	Member	Jt. Chief Controller Of Explosives	8 <sup>th</sup> floor, yash kamal building, sayajigunj, Vadodara	0265- 2343078
13	Regional Officer GPCB	Member	Regional Officer GPCB	Gujarat Pollution Control Board, GERI Compound, Race Course, Vadodara	9825306713
14	Supdt. Engineer, MGVCL, (O&M), Vadodara	Member	Supdt. Engineer, MGVCL, (O&M), Vadodara	MGVCL, Gotri Road, Vadodara	9925208622
15	Chief Officer (F&E) VMSS	Member	Chief Officer (F&E) VMSS	Fire Station VMSS Dandia Bazar, Vadodara	9879615036
16	Chief Civil Defense	Member	Chief Civil Defense	Chief Civil Defense, Kothi, Vadodara	9825274407
17	Secretary, Majoor Mahjan Mandal	Member	Secretary, Majoor Mahjan Mandal	Majoor Mahjan Mandal, Raopura, vadodara	9426066750
18	Chairman Local Crisis Group- 1,2,3	Member	Chairman Local Crisis Group	Subdivisional magistrate SDM Office 6 <sup>th</sup> Floor, 'C' Block, Narmada Bhavan, Vadodara	9978405226
19	Civil Surgeon	Member	Civil Surgeon	Jamnabai Hospital, Mandvi, Vadodara	8238012033
20	Mamlatdar, Disaster Management	Member	Mamlatdar, Disaster Management	Disaster Management Branch, Emergency Operation Centre, Collector Office, Kothi, Vadodara	9998816905 9879244992
21	Member Secretary of OICER	Member	Member Secretary of OICER	Off Site Industrial Control Room, Material Bhavan (RIL VMD) Petrochemicals	9998953963

LCG Vadodara- Nandesari and PCC

Sr No.	Office/ Dept. Designation	Position in LCG	Office/Department	Phone numbers	
				Office	Mobile / Residence
1.	Sub Divisional Magistrate & Dy. Collector, Vadodara	Chairperson	Sub Divisional Magistrate & Dy. Collector	IAS, Asst. Collector and SDM, (Vadodara Gramya), Vadodara	0265-2424402 9978405226
2.	Assistant Director, Industrial Safety and Health	Member Secretary	Industrial Safety and Health	Joint Director Office, Industrial Safety and Health, 7 <sup>th</sup> Floor, Block No.I, Kuber Bhavan, Vadodara	0265-2432543 9081285856
3	Chief Fire Officer (I/C)	Member	Chief Fire Officer	Chief Fire Officer (I/c) Fire Vrigade- Vadiwadi	0265-2459356 9510922360
4	Police Station (PI)	Member	Police Station	1. P I – Jawaharnagar, Bajwa, Koyli 2. P I – Chhani Police Station	1. 0265-2232382 9979033003 2.0265-2773394 6359626558 9825218818
5	Taluka Development Officer	Member	Taluka Development Office	TDO- Taluka Panchayat	02652431410
6	Civil Defense	Member	Civil Defense	Incharge, Police Inspector	0265-2431410 9512045613
7	Primary Health Officer	Member	Primary Health Office	1. PHC - Koyli 2. PHC - Bajwa 3. PHC - Ranoli	1. 0265-2232547 9723456968 7016034372 2.0265-2243880 7567867174 3.0265-2240182 8980039167
8	Editor of Local News	Member	Editor of Local News	Editor Sandesh, Karelibaug	0265-2464749
9	Community Leader	Member	Community Leader	1. Sarpanch, Koyli 2. Sarpanch, Bajwa	1. 7201002057 2. 0265-2232306 8320889094 9924751711
10	Eminent Doctors	Member	Eminent Doctors	1. Motovago, Opp. Kanyashala, Koyli 2. Medical Officer, Dipak Medical Foundation, Nandesari	1. 0265-2232576 9427054116 2. 0265-2841455 9909942016 9909984906

LCG – Padra

Sr No.	Office/ Dept. Designation	Position in LCG	Office/Department	Phone numbers	
				Office	Mobile / Residence
1	Sub Divisional Magistrate	Chair Person	Sub Divisional Magistrate	IAS, Asst. Collector and SDM, (Vadodara Gramya), Vadodara	026-242402 9978405226
2	Deputy Director, Industrial Safety and Health	Member Secretary	Industrial Safety and Health	Office of The Joint Director Office, Industrial Safety and Health, 7 <sup>th</sup> Floor, Block No.I, Kuber Bhavan, Vadodara	0265-2432543
3	Mamlatdar	Member	Mamlatdar Office	Mamlatdar Office, Padra	22590 7567007710
4	Taluka Development Officer	Member	Taluka Development	Taluka Panchayat Office, Padra	0265-222536 9427344874
5	The Police Inspector	Member	The Police Inspector	Police Station, Padra	222333
6	Fire Officer	Member	Fire Officer	Raju Fire Station, Mupur	9925089416
7	Medical Officer	Member	Medical Officer	PHC, Padra	02662-222590
8	Civil Defence	Member	Civil Defence	Chief Civil Defense, Kothi, Vadodara	2431410 9825274407
9	Regional Officer	Member	Regional Office	Regional Office, GPCB, Geri Compound, Nr. Race Course, Vadodara	2354850,2331928 9825306713
10	Editor of Local News Paper	Member	Editor of Local News Paper	Representative of “Divya Bhaskar” Vadodara	

LCG – Savli

Sr No.	Office/ Dept. Designation	Position in LCG	Office/Department	Phone numbers	
				Office	Mobile / Residence
1	Sub Divisional Magistrate	Chairperson	Sub Divisional Magistrate	Deputy Collector & SDM Prant Office, Taluka Seva Sadan, Collage Road, Savli	223131,223132 7567011148
2	Assistant Director	Member Secretary	Industrial Safety and Health	Office of the Joint Director Office, Industrial Safety and Health, 7 <sup>th</sup> Floor, Block No.I, Kuber Bhavan, Vadodara	0265-2432543
3	Mamlatdar	Member	Mamlatdar	Mamlatdar Office, Savli	222045 6351706002
4	Taluka Development Officer	Member	Taluka Development	Taluka Panchayat Office, Savli	222322 9998661416
5	Police Inspector	Member	Police Inspector	Police Station, Samlaya-Savli Road, Savli	222333
6	Fire Officer	Member	Fire Office	Fire Station, Savli GIDC Industrial Estate, Manjusar	264466
7	Medical Officer	Member	Medical Officer	Government Hospital, Savli	222373 9825229397
8	Regional Officer GPCB	Member	Regional Officer GPCB	Gujarat Polution Contol Boadr, GERI Compound, Race Course, Vadodara	2331928,2354850 9825645297
9	Civil Defense	Member	Civil Defense	Inspector of Civil Defence, Kothi Compound, Vadodara	2431410,2434090
10	Editor of Local News Paper	Member	Editor of Local News Paper	Representative of Gujarat Samachar, Vadodara	2464848
11	Community Leader	Member	Community Leader	Sarpanch, Manjusar, Savli	-

## DCG- Valsad

Sr. No.	Office/Dept. Designation	Position in DCG	Office/Department	Phone Number	
				Office	Mobile/Residence
1	District Collector & District Magistrate	Chairman	Office of the District Collector & District Magistrate,	02632-253613	9978406225
2	Dy. Director, Industrial Safety & Health	Member Secretary	DY.DISH	02632-253612	8160609491
3	Superintendent of Police	Member	Superintendent of Police	02632-248053	9978405085
4	Superintendent Engineer	Member	DGVCL	02632-253936	7069750090
5	Chief Officer	Member	Municipality Office,	02632-253812	8849568634
6	Chief Officer of Fire	Member	Municipality Office of Fire	02632-244222	7490826555
7	Dy. Director of Information	Member	Dy. Director of Information,	02632-253817	9726034321
8	Controller of Explosives	Member	Controller of Explosives, Vadodara	0265-2361035	9072241965
9	Commanding Officer	Member	District Home Guards, Valsad	02632-254275	9427127171
10	Civil Surgeon & Chief Health Officer	Member	Civil Hospital	02632-251911	9925242144
11	District Health Officer	Member	District Health,	02632-251911	9727782003
12	Superintendent	Member	Workers State Insurance Hospital, Chanod, Vapi	0260-2451473	--
13	District Agriculture Office	Member	District Panchayat	02632-253891	9327745285
14	Regional Transport Officer	Member	Regional Transport	02632-226622	8200216764
15	(Regional Officer	Member	Pollution Control Board, Vapi	0260-2432089	9726944666
16	Dy. Manager	Member	Gujarat Industrial Development Corporation Ltd., Vapi	0260-2423934	9512890009
17	Minister	Member	Daxin Gujarat Kamdar Yuniyan	02632-242966	9375815141
18	Expert	Member	Aarti Industries Ltd.	--	9727782109
19	Expert	Member	Bayar Vapi Pvt. Ltd., Vapi	--	9727745666
20	Expert	Member	Aarti Drugs Ltd., Sarigam	--	9920170531
21	Expert	Member	Atul Ltd., Atul	--	7984809498
22	Industry Representative	Member	Bayar Vapi Pvt. Ltd., Vapi	--	9824751701

LCG-ATUL

Sr. No.	Office/Dept. Designation	Position in DCG	Office/Department	Phone Number	
				Office	Mobile/Residence
1	Deputy Collector & SDM	Chairman	Office of the District Collector & District Magistrate	02632-249239	997840227
2	Assistant Director, Industrial Safety & Health	Member Secretary	Dy.DISH	02632-253612	8866751474
3	Dy.Superintendent of Police	Member	Superintendent of Police,Valsad	02632-248053	9978499000
4	Dy. Director of Information	Member	Dy. Director of Information , Valsad	02632-253817	9428882436
5	Medical Officer	Member	PHC Chanvai	--	9727728060
6	TDO	Member	Taluka Panchayat,Valsad	02632-222364	7576016622
7	Sarpanch	Member	Grampanchayat , Atul	02632-234562	--
8	Fire Officer	Member	Nagarpalika,Valsad	02632-244222	7490826555
9	Regional Officer	Member	GPCB Vapi	0260-2432089	9726944666
10	Minister of Atul Emp. Union	Member	Atul Ltd,	02632-233261	--
11	Administrative	Member	Kasturba Hospital Valsad	02632-244168	7875780039
12	Medical Officer	Member	Medical Dispencery , Atul	02632-230210	9979466078
13	Expert	Member	Atul Ltd.,Atul	02632-233261	9723551316
14	Chief Officer	Member	Nagarpalika Valsad	02632-253812	8849568634
15	Bureau Chief	Member	Bureau Chief , Sandesh	02632-2499222	9879166259
16	Editor of Local News Paper	Member	Divyabhaskar,Valsad	--	9712971997

LCG-VAPI

Sr. No.	Office/Dept. Designation	Position in DCG	Office/Department	Phone Number	
				Office	Mobile/Residence
1	Deputy Collector	Chairman	Prant Office, Pardi	0260-244192	9727704041
2	Assistant Director, Dy. Director, Industrial Safety & Health	Member Secretary	Dy.DISH	02632-253612	9081285856
3	Superintendent of Police	Member	Dy. Superintendent of Police, Vapi	0260-24901201	9978408271
4	City Mamlatdar	Member	Mamlatdar Office, Valsad	--	9925055710
5	Superintendent of ESIC	Member	ESIC Office, Chanod, Vapi	0260-2421802	--
6	Dy. Director of Information	Member	Dy. Director of Information , Valsad	02632-253817	9428882436
7	Fire Officer	Member	Municipality Office, Valsad	0260-2430101	7698825404
8	Regional Officer	Member	GPCB, VAPI	0260-2432089	9726944666
9	Minister	Member	Gujarat Sanyukt Kamdar Yuniyan	02632-242966	9375815141
10	Medical Officer	Member	Haria Hospital, Vapi	0260-6638888	9727377516
11	Expert	Member	Aarti Ind. Ltd, Vapi	--	9727782114
12	Expert	Member	Huber India pvt. Ltd, Vapi	--	9714638833
13	Expert	Member	Bayar Vapi Pvt Ltd, Vapi	--	6357187203
14	Expert	Member	UPL, Vapi	--	7874074301

**Appendix 3**  
**State Emergency Operation Centre (SEOC) Contact Details**

<b>Landline number : 079-23251900</b>			
<b>Mobile (WhatsApp) number : 9978405304</b>			
<a href="mailto:revcontrol1@gujarat.gov.in">Email ID : revcontrol1@gujarat.gov.in</a> , <a href="mailto:seocgujarat@gmail.com">seocgujarat@gmail.com</a>			
<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Contact No.</b>
1	Dr. Jayanti S. Ravi, IAS	Additional Chief Secretary Revenue Department	9978406018
2	Shri Alok Kumar Pandey, IAS	Commissioner Of Relief & Secretary	9978408552
3	Shri S.C. Savaliya	Director of Relief & Deputy Secretary	9099905040 9274001363
4	Shri R. P. Patel	Deputy Collector	9998214106
<b>General Shift (10:30 to 6:10 Hrs.)</b>			
5	<b>Shri J. B. Gadhavi</b>	<b>Mamlatdar</b>	<b>9274480700</b>
6	Shri J. D. Rohit	Deputy Mamlatdar	9904138877
7	Ms. A. B. Modh	Deputy Mamlatdar	9265710190
8	Shri N. G. Desai	Clerk	9998001506
<b>First Shift (07:00 to 14:00 Hrs.)</b>			
9	<b>Ms. D. G. Bachani</b>	<b>Mamlatdar</b>	<b>9727699129</b>
10	Shri J. B. Vaghela	Deputy Mamlatdar	9664730031
11	Ms. A. M. Raol	Deputy Mamlatdar	9033257719
12	Ms. P. R. Zala	Deputy Mamlatdar	9979793547
13	Shri Mahipatsinh Vaghela	Computer Operator	9409636397
<b>Second Shift (14:00 to 21:30 Hrs.)</b>			
14	<b>Shri H. B. Makwana</b>	<b>Mamlatdar</b>	<b>9725273991</b>
15	Shri D. B. Trivedi	Deputy Mamlatdar	7573812233
16	Shri V. K. Gohil	Deputy Mamlatdar	7359300667
17	Shri N. K. Parmar	Deputy Mamlatdar	6352501488
18	Shri Bijendrasinh Bihola	Computer Operator	9662709890
<b>Third Shift (21:30 to 7:00 Hrs.)</b>			
19	Shri M. S. Masani	Deputy Mamlatdar	9725141417
20	Shri S. S. Diwakar	Deputy Mamlatdar	9426665585
21	Shri Aakashbhai Parmar	Computer Operator	8460423302

**Appendix – 4  
Secretaries of Gujarat State**

<b>Dept.</b>	<b>Name and Designation</b>	<b>Office Address</b>	<b>Phone No.</b>
Chief Minister's Office	<b>Shri Manoj Kumar Das, IAS</b> Chief Secretary	1st Block, 5th Floor, Sachivalaya, Gandhinagar.	07923250301
General Administration Dept.	<b>Dr. Anju Sharma, IAS</b> Additional Chief Secretary (Personnel)	1st Block, 6th Floor, Sachivalaya, Gandhinagar.	079 23250311
Agriculture and Co-operation Dept.	<b>Shri Arun Kumar M. Solanki, IAS</b> Additional Chief Secretary (Co-operation, Animal Husbandry, Cow Breeding & Fisheries)	5th Block, 2nd Floor, Sachivalaya, Gandhinagar	07923250328
Energy and Petrochemicals Dept.	<b>Shri Ashwani Kumar, IAS</b> Principal Secretary	5th Block, 5th Floor, Sachivalaya, Gandhinagar	079 - 23250772
Forests and Environment Dept.	<b>Dr. Vinod Ramachandra Rao, IAS</b> Principal Secretary	14th Block, 8th Floor, Sachivalaya, Gandhinagar.	079 - 23251051
Food and Civil Supplies Dept.	<b>Ms. Mona Khandhar, IAS</b> Principal Secretary	14th Block, 5th Floor, Sachivalaya, Gandhinagar.	079 - 23251163
Health and Family Welfare Dept.	<b>Shri Rajeev Topno, IAS</b> Principal Secretary	7th Block, 7th Floor, Sachivalaya, Gandhinagar.	07923251403
Home Dept.	<b>Shri Sanjeev Kumar, IAS</b> Principal Secretary (I/C)	2nd Block, 1st Floor, Sachivalaya, Gandhinagar	23250503/04/05
Industries and Mines Dept.	<b>Ms. Mamta Verma, IAS</b> Principal Secretary	5th Block, 3rd Floor, Sachivalaya, Gandhinagar.	07923250701
Information & Broadcasting Dept.	<b>Dr. Vikrant Pandey, IAS</b> Secretary (I/C)	2nd Block, 9th Floor, Sachivalaya, Gandhinagar.	07923251281
Labour, Skill Development And Employment Dept.	<b>Shri Lochan Sehra, IAS</b> Secretary	5th Block, 6th Floor, Sachivalaya, Gandhinagar.	07923250873
Ports & Transport Dept.	<b>Shri Hareet Shukla, IAS</b> Principal Secretary (I/C)	2nd Block, 1st Floor, Sachivalaya, Gandhinagar.	079 232 50508/09
Roads and Buildings Dept.	<b>Shri P. R. Patelia</b> Secretary	14th Block, 2nd Floor, Sachivalaya, Gandhinagar	07923251801
Revenue Dept.	<b>Dr. Jayanti S. Ravi, IAS</b> Additional Chief Secretary	11th Block, 5th Floor, Sachivalaya, Gandhinagar.	07923251503

(website : <https://gad.gujarat.gov.in/personnel/secretaries-government-gujarat.htm>)

**Appendix – 5  
Police Commissioners and DIGs**

No.	City	Designation	(O)	Fax	(M)
1	Gujarat	Director General and Inspector General of Police	23254201 23246333	23246329	9978406275
2	Ahmedabad	Commissioner of Police	079- 25633636	079- 25630600 079- 25630700	9978406272
3	Vadodara	Commissioner of Police	0265- 2431414 0265- 2431515	0265- 2432582 0265- 2415111	9978405089
4	Rajkot	Commissioner of Police	0281-2459888	0281- 2458526	9978406297
5	Surat	Commissioner of Police	0261- 2244440	0261- 2241304	9978405858
6	Ahmedabad Range	IGP	079- 26890931	079- 22686461	9978405865
7	Gandhinagar Range	IGP	079- 23260171	079- 23260615	9978406362
8	Vadodara Range	DIGP	0265- 2432400 0265- 2413355	0265- 2426737	9978407285
9	Surat Range	IGP	0261- 2663469	0261- 2655396	9978407998
10	Junagadh Range	DIGP	0285- 2650401	0285- 2650002	9978405083
11	Rajkot Range	IGP	0281- 2477511	0281- 2474341	9978405066

**Appendix – 6  
District Collectors**

<b>No.</b>	<b>District</b>	<b>Code</b>	<b>Phone (O)</b>	<b>Fax</b>
1	Ahmedabad	079	27551681	07927552144
2	Amreli	02792	222307	02792222710
3	Anand	02692	262271	02692261575
4	Arvalli	02774	250201	02774250202
5	Banaskantha	02742	257171	02742252740
6	Bharuch	02642	240600	02642240602
7	Bhavnagar	0278	2428822	02782427941
8	Botad	02849	271301	02849271304
9	Chhotaudepur	02669	233003	02669233002
10	Dahod	02673	239001	02673239005
11	Dangs-Ahwa	02631	220201	02631220294
12	Devbhumi Dwarka	02833	232804	02833232102
13	Gandhinagar	079	23220630	07923259040
14	Gir-Somnath-Veraval	02876	240001	02876243300
15	Jamnagar	0288	2555869	02882555899
16	Junagadh	0285	2630100	02852635599
17	Kachchh	02832	250020	02832250430
18	Kheda	0268	2553334	02682553358
19	Mahisagar	02674	250664	02674250655
20	Mehsana	02762	222211	02762222202
21	Morbi	02822	240701	02822240701
22	Narmada-Rajpipla	02640	222161	02640222171
23	Navsari	02637	244999	02637281540
24	Panchmahal	02672	242800	02672242899

25	Patan	02766	233301	02766233055
26	Porabandar	0286	2221800	02862222527
27	Rajkot	0281	2473900	02812453621
28	Sabarkantha	02772	241001	02772241611
29	Surat	0261	2652525	02612655757
30	Surendranagar	02752	282200	02752283862
31	Tapi-Vyara	02626	224460	02626221281
32	Vadodara	0265	2433000	02652431093
33	Valsad	02632	2253613	02632243417
34	Vav-Tharad	02737	223378	-

Appendix -7

Control Room - Central and State

Sr. No.	Department	Contact No.
1	Ministry of Home Affairs, New Delhi	011-23092923 011-23093054
2	SEOC, Gandhinagar	079-23251900

Appendix – 8

BN, NDRF, Chiloda Road, Gandhinagar

1	Control Room	079-23201551,9428826445
2	Comdt. Office -r6th Bn NDRF, Jarod Camp, Teh-Wagodia, Vadodara, Pin - 391510	02668-274470 02668-274245 02668-274245 09723632166 <a href="mailto:guj06-ndrf@nic.in">guj06-ndrf@nic.in</a>

Air Force Gandhinagar

1	Wing Commander, Air-II for Air Commanding-in-Chief, Sector-9, Gandhinagar	23242600, (F)23240054
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**Appendix - 9**  
**Inter-district and Inter-state Aspects**

The impact of Hazardous chemicals at the time of major accidents or disaster may extend beyond the boundary of the state in the neighbouring districts of the states of Rajasthan, Madhya Pradesh, Maharashtra and Daman and Diu. It is important to remember that this impact relates to catastrophic release in a maximum credible scenario. It is the duty of neighbouring districts of Gujarat to inform the concerned Collectors of the neighbouring districts of states through State Crisis Groups or State Disaster Management Authority to Central Crisis Group or National Disaster Management Authority so that coordination can be established in between the states. The following information points are important in this regard:

- Vulnerability and risk maps should be developed to know the impact areas.
- The preparation required by medical and paramedical staff and measures that need to be put into effect at the time of an emergency.
- Important precautionary measures and immediate individual protective measures, including dos and don'ts for the affected population.
- Coordinate meetings in between states (SCGs) should be at frequent intervals are advised.
- Sharing of the lessons learnt from drills and any fresh up-dates in the plans.
- Proper information sharing and coordination should be established through Central Crisis Group and National Disaster Management Authority by involving State Crisis Groups of the neighbouring state.
- Neighbouring States should also share inform to Gujarat.

About 500 Km boundary is also shared with Pakistan hence international issues should also be addressed at national level serious level.

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