

Government of Karnataka

# DISTRICT DISASTER MANAGEMENT PLAN KOPPAL-2019-20



# **DEPUTY COMMISSIONER'S OFFICE, KOPPAL**

## DISTRICT DISASTER MANAGEMENT PLAN KOPPAL 2019-20

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## PREFACE

The District Disaster Management Plan is key part of an unnergency management, it will play a significant role to address the anexpected disasters that occur in the district effectively. The information avail in DDMP is valuable in terms of its use during disaster. Based on the history of various duraters that occur in the district the plan has been so designed as an action plan rather than a resource book. Unnost amenics has been paid to make it handy, precise rather than bulky one, this plan has been prepared which is based on the guidelines provided by the National Institute of Disaster Management (NIDM), while preparing this plan, most of the invaes inlevant to crisis management, have been carefully dealt with . During the time of disaster there will be a delay before outside help arrives. At first, self-help is essential and depends on a prepared community which is alert and informed. Efforts have been made to collect and develop this plan to make it more applicable and effective to handle any type of disaster.

The National Disaster Management Act was brought in year 2005 to promote a proactive approach focusing on all phases of Disaster Management and to give more coherence to the institution a structure required to take forward me paradigm shift in the approach to Disaster Maragement in the country. Accordingly, the State of Karnataka has formed the State Disaster Management Authority and District Disaster Management Authorities at all the districts for effective management of disasters in the district through the implementation of District Disaster Management Plans. Koppul District occupies an area of 7190 Square Kilometers which has covered most of the dry/wet lands, and often faces drought, and occasionally cyclones and floods like 2005-06, 2009-10, 2014-15 and in the current year in the month of August and September. While not all natural calamities can be predicted and provented, a state of preparadness and ability to respond quickly to a natural calamity can considerably mitigate loss of life property and human suffering and restore normalcy at the earliest. Therefore Regional Commissioner Office and Deputy Commissioner Office played a major role in preparation and reformulation of District Disaster Management Plant (DDMP) in the year of 2019-20. As a whole this is a genuine effort of disariet administration to develop the plan and if you have any suggestions and comments are free to convey the same so that we can include them in the next edition . We are thankful to Regional Coordinator, concern Departments/Institutions and persons who have provided us the vital information in time. Also some blank space has been provided wherever possible so that any further new information can be included as and when required.

Pince: Koppal Date:

(P. Sunilkumar)

# CHAPTER-I INTRODUCTION

#### Vision:

There is need for a comprehensive Disaster Management Plan for the district authorities to manage disasters in the district, and to play a supportive and coordinating role, was realized in the wake of the frequent floods, droughts and various industrial and man made disasters. For a long time now, Koppal district has been experiencing losses and damages due to various natural and manmade disasters such as drought, flood, cyclones, epidemic, pest attack etc. The risks due to these hazards are increasing every year. Although, the district has been taking care of relief and response operations during disasters, greater attention is required for preparedness, mitigation and reconstruction. A comprehensive district plan was required to guide district administrations, line departments and all the agencies and industrial establishments and the community at large to ensure that the management plans for preparedness, mitigation, response and reconstruction are in place so that the impact due to any emergency or disaster situation is minimum and be able to facilitate faster recovery. The District Disaster Management Plan is intended to serve as an effective guide book to help the district administration better prepared for disasters to safeguard the lives, livelihoods and property. The vision of the plan is fail proof communication, authentic and accurate data base documented, rehearsed to be activated in the shortest possible time with minimum simple orders and procedures ensuring participation by administration, communities, industries, private/NGOs, Volunteers at all levels, making optimal utilization of human and material resources with no gaps or no overlaps to prevent/minimize loss to lives and property and faster restoration of normal life in the affected areas.

#### 1.1. Rationale/Justification for DDMP

Natural Disasters are known to mankind before it evolved and will happen afterwards also. It reminds us of a meteorite that had hit the earth which eventually wiped off the entire dinosaurs, million years ago. Today, also we witness them in the form of Earthquake, Floods, Landslides, Cyclones, Wildfires, Avalanches, Cloudburst, Heat and cold waves and the tsunamis (giant tidal waves). Many countries have suffered loss of human lives and damage to property; their economic losses have been in million dollars. Thus, disasters not only kill people, but also have tremendous effect on economy. It enhances the poverty of an already poor country and makes it impoverish. In disasters, it is the poor and under privileged, who are the worst affected, they tend to lose their shelter, livelihood and become more impoverished.

#### 1.2 Aims & Objectives

According to **Prof. G.P Sinha Centre for Disaster Management and Rural Development** following are the aims and objectives of Disaster Management.

1. To engage in activities this may help in minimizing the damages caused by disasters especially in rural areas.

- 2. To make endeavors towards creating awareness among the people about disasters and its consequences and to prepare them in advance to face such situations and to ensure their participation in the disaster mitigation plans.
- 3. Existing institutional arrangements, interdepartmental linkages, role of NGO's, voluntary agencies and local communities so as to understand their capabilities to mitigate specific disasters which will also facilitate effective coordination in their activities in times of need.
- 4. To act as an agency for the execution of disaster management schemes of the Government and the NGOs.
- 5. To undertake studies this will facilitate in the preparation of rural development schemes and their effective implementation.
- 6. To collect, compile and publish detailed information on the latest rural development policies and projects of the State Government and The Government of India and to engage in activities in the light of the thrust areas of Planning Commission such as food processing, horticulture, sericulture and service sectors etc.
- 7. Any financial incumbency, socially and economically deprived rural and urban women through literacy, education, self income generation schemes, professional training and overall awareness building.
- To undertake studies on a regular basis to procure Disaster Management Information Data base and to engage in the task of risk assessment and vulnerability analysis both for the state and districts.
- 9. To evolve information reporting and monitoring tools for preparedness, immediate response and damage assessment, keeping in view the socioeconomic conditions of urban and rural areas.
- 10. To undertake studies with a view to facilitating the preparation of a comprehensive 'District Disaster Management Plan' so as to help the Government in providing uniform directives from the state government to the district administration and to establish standardized response to any disaster situation.
- 11. To engage in activities directed towards spreading literacy among minorities, dalits, most backward classes, tribal and economically deprived communities and to ensure community participation and income oriented generation of literacy and professional skills.
- 12. Children specially those who are the victims of floods, droughts, earthquake and similar other disasters in rural and urban areas.
- 13. To make efforts for the identification and elimination of child labor and to restore children's rights. For this Centre intends to provide economic incentive to the deserving children in school going category and to actively campaign for the removal of socio-cultural constraints in the community.
- 14. To establish educational & training institutions for educating communities in the areas of "Disaster Management" and "Rural Development".

#### 1.3. Need for Disaster Management

Data on disaster occurrence, its effect upon people and its cost to countries, are primary inputs to analyze the temporal and geographical trends in disaster impact. Disaster losses, provide the basis for identifying where, and to what extent, the potentially negative outcomes embedded in the concept of risk is realized. They help to understand where, and to whom, disaster risk becomes impact. They also provide the basis for risk assessment processes, a departing point for the application of disaster reduction measures.

Development cannot be sustainable unless disaster mitigation is built into development process. Investments in mitigation are more cost effective than expenditure on relief and rehabilitation. Prevention and mitigation contribute to lasting improvement in safety and are essential to integrated disaster management. Disaster response alone is not sufficient as it yields only temporary results at very high cost. So emphasis must be on Disaster prevention, mitigation and preparedness, which help in achieving objectivity of vulnerability reduction.

#### 1.3 What is a Disaster?

"A **Disaster** is a sudden, calamitous event that causes serious disruption of the functioning of a community or a society involving widespread human material economic or environmental losses and impacts which exceeds the ability of the affected community or society to cope using its own resources."

#### ---- UN International Strategy for Disaster Reduction, (UNISDR)

A Disaster is a "Situation or event, which overwhelms local capacity, necessitating a request to national or international level for external assistance; an unforeseen and often sudden event that causes great damage, destruction and human suffering".

#### ----- Centre for Research of Epidemiology of Disaster (CRED), Belgium

**1.3.1 Hazard:** is a natural physical event which has a potential to convert into a disaster, causing widespread injury or deaths and damage to public or private property or the environment.

**1.3.2 Vulnerability:** means inability to resist a hazard or respond when a disaster has occurred. It depends on several factors such as people's age and state of health, local environmental and sanitary conditions, as well as on the quality and state of local buildings and their location with respect to any hazards. --- UNISDR

#### **1.3.3 Disaster Preparedness**

Pre-disaster activities that are undertaken within the context of disaster risk management and are based on sound risk analysis. This includes the development/enhancement of an overall preparedness strategy, policy, institutional structure, warning and forecasting capabilities, and plans that define measures geared to helping at-risk communities safeguard their lives and assets by being alert to hazards and taking appropriate action in the face of an imminent threat or an actual disaster.

#### --- Office of Commissioner for Humanitarian Affairs (OCHA)

**1.3.4 Disaster risk reduction (DRR),** attempts to look back at the root causes of risks and vulnerabilities in a <u>society</u>, state, town or even a single household. Factors can be broad or specific, depending on the scope of risk and vulnerability assessments.

**1.3.5** Natural hazard: Natural process or phenomenon that may cause loss of life, injury or other health

impacts, property damage, loss of livelihoods and services, social and economic disruption, or environmental damage.

The Natural disasters were split into 3 specific groups:

1. **Hydro-meteorological disasters:** Floods and wave surges, storms, droughts and related disasters (extreme temperatures and forest/scrub fires), and landslides & avalanches;

- 2. Geophysical disasters: Earthquakes & tsunamis and volcanic eruptions;
- 3. Biological disasters: Epidemics and insect infestations.

#### **1.3.6 Man made disasters**

Disasters due to human activities could be unintentional, but lack of safety measures and abiding by certain safety rules and regulations, Most of these (barring coordinated terrorist activities) are due to certain accidents. Terrorism, Bomb blast, Wars, Riots, technology related, Accidents (Road, Ship, Air), Chemical and Nuclear, Industrial accidents etc.

#### 1.4 Worst Disasters in the world

- 1. Bam earthquake, Iran, Dec 2003, magnitude 6.6 and 26,271 dead, 30,000 injured
- 2. South Asian tsunami, Dec 2004, magnitude 9.3 and 230,000 dead in 14 nations, 125000 injured, 45,752 missing and 1.69 million homeless
- 3. Sichuan earthquake, China, May 2008, magnitude 7 and 8 69,195 dead, 18,392 homeless and 374,643 injured and 115 billion dollars loss
- 4. Haiti earthquake, Jan 2010, magnitude 7 and 150,000 dead, 300,000 injured and 100 million dollars loss
- 5. Pakistan floods, Jul 2010 --- 2,000 dead, 20 million affected and loss of 43 billion dollars
- 6. **Japan tsunami**, Mar 2011, magnitude 9 and 15,188 dead, 5,337 injured, 8,742 missing and loss of 300 billion dollars

#### 1.5 The Indian scenario

India has been vulnerable to many disasters in the past both natural and manmade. Nearly, 60% of the landmass is prone to earthquake, 8% for cyclones (east and west coast) and 68% for drought. Some of them are mentioned below along with number of people dead and the economic losses incurred.

#### A. Natural disasters in India

- 1. Latur earthquake, Sept. 1993, magnitude 6.4 and 20,000 dead and 30,000 injured
- 2. Orissa super cyclone, Oct 1999, 15,000 dead 275,000 homes destroyed and 8,119 injured and 4.9 billion dollars loss.
- 3. **Gujarat earthquake**, Jan 2001, magnitude 7.7 and 20,000 dead and 167,000 injured and 400,000 homes destroyed and 5.5 billion dollars loss
- 4. South Asian Tsunami, Dec 2004, magnitude 9.3 and 12,405 dead, 5,640 missing and 647,599 homeless.
- Cyclone Aila, 25 May 2009, 325 dead and 8,000 missing, one million homeless and loss of 552.6 million dollars and 7,000 infected with diarrhea due to floods

#### **B.** Manmade disasters in India

- 1. Bhopal gas tragedy, Dec1984 and 3,787 dead and 558,125 affected with disabling injuries.
- 2. Gujarat riots, Mar 2002
- 3. Serial bomb blast, Mumbai, Mar1993
- 4. Bomb blast in suburban trains, Mumbai, Jul 2006
- 5. Terrorist attack, Mumbai, Nov 2008
- 6. Air plane accident, Mangalore, May 2010

Thus, we can notice that most of the disasters have occurred within the last two decades, and the frequency, intensity and magnitude of the disasters are ever increasing.

#### 1.6 National disaster management (NDMA) Act, 2005

The National emergency management authority was constituted in Aug 1999, which submitted a report in 2001, to have separate department for Disaster management in India Government enacted the National disaster management act on 23<sup>rd</sup> Dec 2005, which lead to the creation of National disaster management authority (NDMA).

S.No	Type of Disaster	Resposible Department
1.	Earthquakes and Tsunami	MHA/Ministry of Earth Sciences/IMD
2.	Floods	MHA/Ministry of Water Resources/CWC
3.	Cyclones	MHA/Ministry of Earth Sciences/IMD
4.	Drought	Ministry of Agriculture
5.	Biological Disasters	Ministry of Health and Family Welfare
6.	Chemical Disasters	Ministry of Environment & Forests
7.	Nuclear Disasters	Department of Atomic Energy
8.	Air Accidents	Ministry of Civil Aviation
9.	Railway Accidents	Ministry of Railways
10.	Terrorism, bomblast, Riots	Ministry of Home Affairs

#### Nodal ministries responsible for various categories of disasters

#### 1.7 Importance of Multi-hazard Management Plan

It is apparent that this district is prone to natural disasters such as floods, cyclones, landslides etc. Also, it cannot ignore the man-made disasters. So the district plan is designed as per the present need and the major strategies to respond to any unexpected situation have also been considered. In the multi-hazard district plan, all the disasters will be handled properly following the given response mechanism, like ICS, use of resource inventory, Standard Operating Procedures (**SOP**), keeping coordination with the line agencies and proper community based awareness activities. SOP of line departments is designed to make them alert. It highlights their role and responsibilities during, after and normal time of the disaster.

#### 1.7.1 The main features of multi-hazard plan are: -

- 1. It gives importance to all the disasters equally and helps to mitigate the situation beforehand.
- 2. All the departments are assigned with their proper role and responsibilities, which are clearly indicated in the SOPs.
- 3. The District administration has to be alert round the year as disasters may occur anytime, anywhere in the district, irrespective of time and location.

#### **1.7.2 Disaster Management Cycle**

In multi-hazard response plan, the disaster management cycle has a significant role to play. The four stages of disaster cycle have their own importance in terms of their implementation during, after and before the occurrence of any disaster.



#### 1.7.2.1 Pre disaster activities

- 1. Policy development and National, State, district, local level disaster organization formation
- 2. Vulnerability and capacity assessment
- 3. Prevention and mitigation
- 4. Preparedness, planning and training

#### 1.7.2.2 Emergency activities

- 1. Warning (beginning before the actual event)
- 2. Evacuation, search and rescue
- 3. Emergency assistance (relief) food, water, shelter, medical aid

#### 1.7.2.3 Post disaster activities

1. Repair and restoration of life lines (power, telecommunications, water transportation) 2.

Reconstruction and rehabilitation

#### 1.7.2.4 Mitigation methods

i) Structural measures: Any physical construction to reduce or avoid possible impact of hazards, which include engineering measures and construction of hazard-resistant and protective structures and infrastructure. --- NDMA (2005)

ii) Non structural measures: Non engineered measures to reduce or avoid possible impacts of hazards such as education, training and emergency planning, capacity development, general public awareness, early warning system, hazard vulnerability risk analysis, communication mechanism etc. --- NDMA (2005)

#### **1.8 Vision of DDMP:**

There is need for a comprehensive Disaster Management Plan for the district authorities to manage disasters in the district, and to play a supportive and coordinating role, was realized in the wake of the frequent floods, droughts and various industrial and manmade disasters. For a long time now, Koppal district has been experiencing losses and damages due to various natural and manmade disasters such as drought, flood, cyclones, epidemic, pest attack etc. The risks due to these hazards are increasing every

year. Although, the district has been taking care of relief and response operations during disasters, greater attention is required for preparedness, mitigation and reconstruction. A comprehensive district plan was required to guide district administrations, line departments and all the agencies and industrial establishments and the community at large to ensure that the management plans for preparedness, mitigation, response and reconstruction are in place so that the impact due to any emergency or disaster situation is minimum and be able to facilitate faster recovery. The District Disaster Management Plan is intended to serve as an effective guide book to help the district administration better prepared for disasters to safeguard the lives, livelihoods and property. The vision of the plan is fail proof communication, authentic and accurate data base documented, rehearsed to be activated in the shortest possible time with minimum simple orders and procedures ensuring participation by administration, communities, industries, private/NGOs, Volunteers at all levels, making optimal utilization of human and material resources with no gaps or no overlaps to prevent/minimize loss to lives and property and faster restoration of normal life in the affected areas.

#### 1.9 Objectives of DDMP

- 1. To prevent loss of human life and property damage
- 2. To study, analyze and evaluate the disasters
- 3. To identify the vulnerable locations and do the vulnerability and risk analysis
- 4. To improve preparedness, prevention and mitigation at district level
- 5. To ascertain the status of existing resources and facilities available
- 6. To recommend appropriate strategies and responses to deal with future disasters

#### 1.10 Who formulates and carryout the Plan?

The disaster management plan has been formulated starting from the village level up to the district level. The deputy commissioner, sub-divisional officer and Tahsildar will head the management teams at their respective levels. Urban & rural local bodies, various engineering wings & civil society form an essential component of DDMP. The DDMP is executed by the district disaster management committee, chaired by the Deputy Commissioner.

#### 1.4. Vision of District Disaster Management Plan

Make Koppal District disaster resilient, achieve substantial disaster risk reduction, and significantly decrease the losses of life, livelihoods, and assets – economic, physical, social, cultural, and environmental – by maximizing the ability to cope with disasters at all levels of administration as well as among communities.

#### 1.5 Role of District Administration and organization

The District Magistrate/Collector has the responsibility for overall management of disasters in the district. He has the authority to mobilize the response machinery and has been given financial powers to draw money under the provisions of the General Financial Rules/Treasury Codes.

All departments of the State Government, including the police, fire services, public works, irrigation etc., work in a coordinated manner under the leadership of the Collector during a disaster, except

in metropolitan areas where the municipal body plays a major role. The District Collector also enjoys the authority to request for assistance from the Armed Forces if circumstances so demand. NGOs have also been effective in providing relief, rescue and rehabilitation in recent times.

#### 1.6. Role of Local-Self Governments

Local self-governments, both rural and urban, have emerged as important tiers of governance, after the 73rd and 74th Amendments to the Constitution. For the people, they are also the nearest units of administration and are among the first responders to any crisis besides being closely knit with the communities. These units can thus play an important role in crisis management under the overall leadership of the District Administration.

#### 1.7. Role of Public/NGO/Civil Society/Media:

The local community is usually the first responder in case of a disaster. Local community also carries traditional knowledge and relevant counter measures regarding disaster management. So the role of local community must be utilised with the help of NGOs and media.

They should be encouraged to play an active role in all three phases of disaster management. District administration should also focus on capacity building, participation and empowerment of these stakeholders in disaster management.

Mobilization of community action supported by local NGOs, along with government machinery is a must for quick, efficient and effective response. For this, healthy coordination must exist between local administration and local community/NGOs. Local NGOs and civil society must work on developing a deep culture of safety and prevention in society.

NGOs, civil society and media also play an active role as pressure groups in a democracy so that any laxity on part of the government can be traced and fixed. So, the public and the NGOs should keep a close vigil over the functioning of the government regarding disaster management and render their services as a watchdog.

#### 1.10. How to implement the plan

The disaster management plan has been formulated starting from the village level up to the district level. The deputy commissioner, sub-divisional officer and Tahsildar will head the management teams at their respective levels. Urban & rural local bodies, various engineering wings & civil society form an essential component of DDMP. The DDMP is executed by the district disaster management committee, chaired by the Deputy Commissioner.

#### 1.11. Approval Mechanism of the plan: Authority for implementation at District level

As per Section 31(2) of the Disaster Management Act 2005, there shall be a plan for disaster management for every district of the state. The DDMP has been prepared by the district disaster management authority. Also, as per section 31(6) of the disaster management act 2005, the district authority shall send a copy of the district plan to the state authority which shall forward it to the state government. The approved draft plan has been sent to Karnataka state disaster management authority for final approval.

## 1.12. Plan Review and Updatation

As per Section 31(4) the district plan shall be reviewed and updated annually. Also, As per Section 31(7)the district authority shall, review from time to time, the implementation of the plan and issue such instructions to different departments of the government in the district as it may deem necessary for the implementation thereof.

## CHAPTER-2 KOPPAL DISTRICT PROFILE

#### Background

The history of Koppal can be traced back to the kingdom of Shathavahanas, Gangas, Hoysalas and Chalukya Dynasties. The name of the district i,e.,"Koppal" is found in the poetic work of the great poet Kavirajamarga (During King Nrupathunga's time of 814 to 878 A .D) as"Viditha Maha Kopana Nagara." During Ashoka's period, the Jainism gained greater momentum in this region. Therefore, it was called"Jainkashi." In twelfthcentury A.D Veerashaivism of social reformer Basaveshwara became popular. The present Gavi Math of Koppal has great attraction.

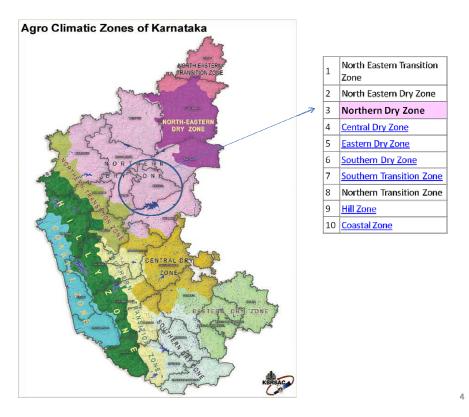
Koppal town being the head quarters of district is known for its historical glory and literary personalities. The other important places of the district are Bhagya nagar, Kinnal, Itagi, Hulagi, Kukanoor, Kalloor, Gangavati, Kanakagiri, Anegundi, Gudadur, and Munirabad. Bhagya nagar is known for weaving and many people are engaged in the work of preparing raw material to prepare wigs and exports to the other countries, i.e., Switzerland etc,. Kinnal is known for its Traditional art in handicrafts-Toy making, Chowkis, Fruit plates etc., and Itagi is well known for Mahadeva. Hulagi is famous for Huligemmadevi temple, which is situated on bank of river Tungabhadra. As many as 50 rice polishing mills are situated in and around the Gangavathi town. Anegundi once known as Kishkindha is one of the important place, which is cited in the great epic 'Ramayana' and the first capital of Vijayanagara Dynasty. In Anegundi the old palace and fort still exist where annual festival called''Anegundi Utsava''is being celebrated in a befitting manner every year.



Before independence, Koppal was under the Nizam of Hyderabad. India got independence on15-08-1947, since Koppal was part of Hyderabad region, the people of the region had to struggle further to attain independence from the clutches of Hyderabad Nizam. On 18<sup>th</sup> September 1948, Hyderabad-Karnataka region got independence from Nizam. Since then until 01-04-1998, Koppal district was in Raichur district of Gulbarga revenue division. On 01-04-1998, Koppal district consisting of four talukas viz. Koppal, Gangavati, Kushtagi and Yelburga came into being.

#### **Geographical Features**

Koppal a newborn district of Karnataka, carved out of Raichur district came into existence on 01-04-1998. It is known to be a backward district among the northern part of state in the old Hyderabad Karnataka region.



Koppal district is situated in northern part of Karnataka State. Koppal district has four revenue blocks namely, Koppal, Gangavathi, Kushtagi, and Yelburga. The district head quarter is at Koppal and almost all district offices are exists in Koppal city. The geographical area of district is 5559 sq meters and the district finds its position between 15°17' to 16°10' North latitudes, 75°45' to 76°45' East longitudes. Koppal district has 636 villages. The North-East of the district is surrounded by Raichur District, East by Gadag district, south is Koppal district and South East is Bagalkot district. The river Tungabhadhra flows along the border of Koppal and Gangavathi taluk as the district is arid zone area and is surrounded by hills belonging to Yamini Mountain series. Soil in Koppal district is bountifully blessed with plenty of mineral resources and it is considered to be a prosperous district. Iron ores are found in old mines in Kustagi taluka, but the Iron available here contains only 20-40% of Iron.

Facts	and	Figures
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Description	Rural	Urban
Population (%)	83.19 %	16.81 %
Total Population	1,156,216	233,704
Male Population	582,958	116,968
Female Population	573,258	116,736
Sex Ratio	983	998
Child Sex Ratio (0-6)	955	973
Child Population (0-6)	170,550	31,104
Male Child(0-6)	87,254	15,762
Female Child(0-6)	83,296	15,342
Child Percentage (0-6)	14.75 %	13.31 %
Male Child Percentage	14.97 %	13.48 %
Female Child Percentage	14.53 %	13.14 %
Literates	651,001	158,084
Male Literates	382,270	86,515
Female Literates	268,731	71,569
Average Literacy	66.05 %	78.03 %
Male Literacy	77.12 %	85.48 %
Female Literacy	54.85 %	70.59 %
Area in Sq. Km	5524.95 sq. km.	10107 /0
Density sq.km	171 sq. km	
Total cultivated land (in hectares	358194	
Total irrigated land (in hectares)	85200	
Forest Land	29451 Hectare	
Latitude	15° 09' to 16° 03' 3	0" North
Longitude	75° 47' 30" to 76° 4	
Average rainfall	572 mm	
Postal Code	583231	
IRRIGATION BY DIFFERENT SOURCES	(ha)	
Dug wells	1366	
Bore wells	45851	
Tanks	355	
Canals	47138	
Other Sources	0.0	
Lift Irrigation	1309	
Gross Area Irrigated	96019	
No .of Ground Water structures		
Domestic BW	4985	
Piped water supply	299	

## Rainfall and Climate

Koppal district is located in the northern maidan region of Karnataka state, which is drought prone and falls in the arid tract of the country. The climate of the district can be termed as mild to severe, with mild winters and hot summers. December is the coldest month with mean daily minimum of 17. 7 degrees Centigrade, while May is the hottest month with mean daily maximum temperature of 39 .8 degrees Centigrade. The day temperature in May often touches 45.0 degrees Centigrade. Relative humidity of over 75% is common during monsoon period. Wind speeds exceeding 15km/h are common during the months of June and July. The recorded annual potential evaporation is around 1950 mm with May registering over 220 mm and December around 120mm. The normal annual rainfall of the district is 621mm. The annual

Source: Census 20011 census.

number of the rainy days is about 49 days. Nearly 67% of the rain is received during the southwest monsoon period (June- Sept) and the northeast monsoon contributes about 24%, during the post monsoon period.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Situation
Dist.Normal	1.0	0.5	2.8	22.5	54.6	72.8	72.3	86.5	144.6	107.7	26.6	7.9	599.8	
2006	0.0	0.0	6.9	7.1	54.7	71.2	13.8	10.2	71.9	41.7	7.4	0.0	284.6	Drought
2007	0.0	0.0	0.0	20.7	53.0	185.6	38.2	61.1	222.2	80.4	0.0	0.0	661.2	Normal
2008	0.0	11.5	143.5	6.6	22.4	23.4	22.6	49.5	184.6	46.4	42.5	0.0	552.9	Drought
2009	0.0	0.0	0.7	14.0	101.9	85.0	19.0	125.3	259.2	0.0	0.0	0.0	604.9	Normal
2010	12.6	0.0	0.0	10.8	88.0	57.4	94.1	241.7	62.3	45.0	96.6	0.0	708.2	Excess
2011	0.0	0.0	0.0	40.4	51.2	47.4	94.0	104.4	39.0	34.2	0.7	0.0	411.2	Drought
2012	0.0	0.0	0.0	43.1	10.2	15.4	48.8	66.7	56.2	64.2	79.4	0.0	384.0	Drought
2013	0.0	2.0	0.0	13.2	54.0	73.5	74.0	47.9	148.0	127.4	0.0	0.0	539.8	Drought
2014	0.0	6.6	22.2	26.5	83.6	39.5	67.8	218.0	91.3	77.5	13.9	13.9	660.8	Excess
2015	0.8	0.1	17.4	69.1	36.5	57.5	14.3	86.7	184.5	38.8	4.8	2.0	512.5	Drought
2016	1.7	0.2	1.5	1.0	55.3	129.0	71.9	52.0	64.4	16.0	0.0	2.0	395.0	Drought
2017	0.2	0.2	10.9	10.3	41.7	95.0	46.0	126.0	222.0	133.0	1.0	0.0	686.3	Normal
2018	0.0	3.3	11.0	17.0	89.0	87.0	27.0	55.0	53.0	53.0	1.0	1.0	398.0	Drought

Comparison of Rainfall Data of Koppal District for 12 Years (2006 – 2018)(Rainfall in mm)

Sources: Karnataka State Natural Disaster Monitering Centre Bangalore (KSNDMC)

	Rain	South West Monsoon Rainfall 2019 (1st June to 30th Sept'19)			24 hrs_31102019			Last 7 Days RF (25th to 31st Oct'19)			October 2019			Cumulative Rainfall Pattern (1st Jan to 31st October 2019)		
District/Taluk/Hobli	Normal (mm)	Actual (mm)	%DEP	Normal (mm)		%DEP	Normal (mm)	Actual (mm)	%DEP	Normal (mm)	Actual (mm)	%DEP	Normal (mm)	Actual (mm)	%DEP	
Koppala District	376	352	-6	2	1	-61	19	20	9	108	207	92	565	605	7	
Gangavathi Taluk	375	305	-18	2	1	-44	22	29	33	106	196	85	548	533	-3	
Gangavathi Hobli	386	254	-34	2	0	-98	23	16	-33	104	153	48	558	443	-21	
Hulihaider Hobli	367	316	-14	1	2	66	19	31	62	106	280	164	550	633	15	
Kanakgeri Hobli	381	377	-1	2	3	73	23	30	31	99	272	176	545	691	27	
Karatgi Hobli	406	294	-28	1	0	-100	20	55	175	119	201	69	593	521	-12	
Marali Hobli	370	313	-16	2	1	-44	23	16	-30	102	136	33	538	460	-14	
Nauli Hobli	381	330	-13	2	0	-100	23	21	-7	99	168	70	545	539	-1	
Siddapur Hobli	327	281	-14	2	0	-99	23	39	66	118	163	39	516	461	-11	
Venkatagiri Hobli	381	272	-29	2	1	-34	23	15	-36	99	179	82	545	495	-9	
Koppala Taluk	379	379	0	2	1	-65	16	19	17	112	220	96	575	633	10	
Koppala Hobli	410	408	-1	2	0	-76	15	18	18	114	221	94	600	659	10	
Alawandi Hobli	328	370	13	1	0	-82	14	16	15	109	183	68	535	587	10	
Hitnal Hobli	419	403	-4	4	0	-90	22	16	-25	121	279	130	623	700	12	
Erakalgud Hobli	400	344	-14	2	2	0	17	25	50	111	239	116	586	634	8	
Kushtagi Taluk	377	385	2	1	1	-54	18	19	4	110	212	94	576	665	15	
Kushtagi Hobli	367	380	3	1	1	-41	18	22	20	108	236	119	559	690	23	
Hanumanhal Hobli	405	514	27	1	0	-58	16	16	-3	116	207	79	619	792	28	
Hanamsagar Hobli	383	361	-6	1	1	-48	19	10	-46	110	185	69	591	621	5	
Tavaragera Hobli	363	337	-7	1	0	-81	18	27	49	108	219	104	551	605	10	
Yelburga Taluk	375	340	-9	3	1	-69	19	16	-15	103	201	96	562	590	5	
Yelbarga Hobli	388	357	-8	4	1	-72	20	12	-41	100	184	84	570	585	3	
Hire Wankalkunti Hobli	363	369	2	1	2	53	18	30	64	108	282	163	551	705	28	
Kuknur Hobli	359	321	-11	3	0	-85	17	12	-27	104	201	93	552	569	3	
Manglur Hobli	389	321	-17	4	1	-81	19	14	-25	101	157	55	571	531	-7	

Taluk		No	of BPL H	Iousehold	ls	No of APL Households							
	SC		ST		GEN		SC		ST		G	EN	
	Card	Memb	Card	Memb	Card	Memb	Card	Memb	Card	Memb	Card	Memb	
Gangavati	11702	36092	11173	34649	140	384	34	95	47	152	21	53	
Koppal	10413	33918	5391	17734	76	183	55	183	26	91	7	21	
Kushtagi	5357	17170	6396	20780	31	72	10	28	26	86	0	0	
Yelburga	7898	26406	5234	17480	29	73	24	94	34	119	4	10	
Total	35370	113586	28194	90643	276	712	123	400	133	448	32	84	

#### **Household Details**

#### **Koppal District Population Details**

The social setup in Koppal district is mainly of traditional style. There are people practicing different religions like Hinduism, Islam, Christianity, Jainism and Buddhism. The main feature of the social climate of the district is optimized with religious tolerance and social harmony and peaceful co-existence. Quite natural to the backwardness, Koppal district has the woman population that is still in the grip of illiteracy, blind beliefs, evil practices like Devadasi & Child marriage. These social and economical factors certainly contribute to lack of demand for education in the district. Major occupation of the district is Agriculture and Major crops are Sugarcane, cotton, Rice and cereals.



#### Koppal Caste wise Male Female Population-2011

#### Koppal Literates as per 2011 Censes

		10.1 ອາ			/ Educa es (As P	tion er 2011 (	Census)							
		මජූරන්ග / Literates												
ಕ್ರಮ. ಸಂಖ್ಯೆ.	ತಾಲ್ಲೂಕುಗಳು Taluks	గ్రామణం / Rural			i,e	ಕಗಡ / Urba	an	ఒట్ <del>కు</del> Total						
SI.No.	<ul> <li>THE BEAK SET</li> </ul>	ಗಂಡನರು Male	ಹಂಗಳರು Female	ఒట్ <u>ట</u> Total	ಗಂಡನರು Male	ಹಂಗನರು Female	ఒట్ను Total	ಗಂಡನರು Male	ಹಂಗಸರು Female	ఒట్ను Total				
- <b>1</b> (-	2	536	537	538	539	540	541	542	543	544				
1	Gangavathi നാന്തൽമ	109179	81994	191173	41300	33622	74922	150479	115616	266095				
2	Koppal ಕೊಪ್ಪಳ	101394	71276	172670	30017	25458	55475	131411	96734	228145				
3	Kushtagi ಕುಟ್ಟನಿ	85529	57541	143070	9437	7976	17413	94966	65517	160483				
4	Yelburga ಯಲಬು <i>ರ್ಗಾ</i>	86168	57920	144088	57 <mark>61</mark>	4513	10274	91929	62433	154362				
	Total ఒట్ను	382270	268731	651001	86515	71569	158084	468785	340300	809085				

Koppal Literacy rate as per 2011 Censes

		ಸಾಕ್ಷರತಾ ಪ್ರಮಾಣ / Literacy Rat												
ಕ್ರಮ. ಸಂಜ್ಯೆ.	ತಾಲ್ಲೂಕುಗಳು Taluks	786	ರ್ಮಿಂಡ / Ri	ural	05 E	ദ / Urba	n		ఒట్న Total					
SI.No.		ಗಂಡಕರು Male	ಹಂಗನರು Female	ఒక్కు Total	ಗಂಡಕರು Male	ಹಂಗಳರು Female	ಒಟ್ಟು Total	ಗಂಡನರು Male	ಹಂಗನರು Female	ಒಟ್ಟು Total	Rank			
1	2	545	546	547	548	549	550	551	552	553	554			
а	Gangavathi ಗಂಗಾವತಿ	74.23	55.17	64.65	83.26	67.16	75.17	76.51	58.19	67.30	3			
2	Koppal ಕೊಪ್ಪಳ	78.67	56,70	67.82	87.28	74.31	80.81	80.48	60.48	70.58	1			
3	Kushtagi ಕುಷ್ಟನಿ	77.25	53.16	65.34	88.16	75.50	81,33	78.21	55.08	66.76	4			
4	Yelburga ಯಲಬುರ್ಗಾ	79.04	53.93	66.58	88.58	70.90	79.84	79.58	5 <mark>4.</mark> 88	66.32	2			
	Total പലു	77.12	54.85	66.05	85.48	70.90	78.03	78.54	57.55	68.09	24			

#### **Socio- Economic and Cultural Characteristics**

The social setup in Koppal district is mainly of traditional style. There are people practicing different religions like Hinduism, Islam, Christianity, Jainism and Buddhism. The main feature of the social climate of the district is optimized with religious tolerance and social harmony and peaceful co-existence. Quite natural to the backwardness, Koppal district has the woman population that is still in the grip of illiteracy, blind beliefs, evil practices like Devadasi & Child marriage. These social and economical factors certainly contribute to lack of demand for education in the district. Major occupation of the district is Agriculture and Major crops are Sugarcane, cotton, Rice and cereals.

## Land Utilisation

		-	.1 0000000	ಯ ಬಳಕೆ /La								
ಕ್ರಮ. ಸಂಖ್ಯೆ. SI.No.		ಭೌಗೋಳಕ	ಅರಣ್ಯ	ಸಾಗುವಳ	ಯ ಬಳಕ / ಆಧ್ಯವಿಲ್ಲದಿರುವ ivailable for	ಕ ಭೂಮಿ	isation 2016-17 ಸಾಗುವಳ ಮಾಡದಿಸುವ ಇತರ ಭೂಮಿ Other Uncutivared Land					
	ತಾಲ್ಲೂಕುಗಳು Taluks	ଘଧ୍ୟମହଟ Geo- graphical Area	Forest	ವೈದರಾಂದೀತರ Land put to Nor⊷ Agricultural Uses	Elotudo Barren & Un Cultivable Tanc	য়েছে Total	ಸಾಗುವಳಿಗ ಯೋಗ್ಯವಾದ ಬಂಬದ Cultivable waste	ಖಾಯಂ ಗೋಮಾಳ Parmanant Pasture	ವೃಕ್ತ ಮತ್ತು ತೋನುಗಳು Trees Groves	دفع Total		
1	2	156	157	158	159	160	161	162	163	164		
Ť	Gangavathi ಗಂಗಾವತಿ	132131	14482	13498	5682	19180	560	8134	0	8694		
2	Koppal ಕೊಷ್ಣನ	136755	10779	11611	5291	16902	430	1486	210	2126		
3	Kushtagi ಕುಷ್ಟಗಿ	135779	4110	13889	7200	21089	811	<mark>612</mark> 4	0	6935		
4	Yelburga ಯಲಬುರ್ಗಾ	147830	80	10630	5462	16092	767	2098	٥	2865		
	Total ಒಟ್ಟು	552495	29451	49628	23635	73263	2568	17842	210	20620		

ಕ್ರಮ. ಸಂಶ್ಯೆ. SI.No.		ಭೂಮಿಯ ಬಳಕೆ / Land Utilisation 2016-17 (in Hectares)									
	ತಾಲ್ಲೂಕುಗಳು Taluks	1994	ಬೀಳುಭೂಮಿ Follow Land		ಬಿತ್ತನೆಯಾದ ಪ್ರದೇಶ Area Sown						
		සංථු Current	ಇತರೆ Other	ఒట్న Total	ನಿವ್ವಳ Net	ಒಂದಕ್ಕಿಂತ ಹೆಚ್ಚ More than once	ఒట్న Total -				
1	2	165	166	167	168	169	170				
1	Gangavathi ಗಂಗಾವತಿ	13093	19679	32772	57003	23894	80897				
2	Koppal ಕೊಪ್ಪಳ	7374	6047	13421	93527	10694	104221				
з	Kushtagi ಕುಷ್ಟಗಿ	1852	5254	7106	96439	11731	108170				
4	Yelburga ಯಲಬುರ್ಗಾ	8489	8501	16990	111809	11690	123499				
	Total ఒట్న	30808	39481	70289	358778	58009	416787				

## Gross and Net Irrigated raea under different sources 2016-17 (in Hectares)

	Conole	Callars	Tanks		Wells		Bore	wells	Lift	0n		Other resourc	9	Total
Taluk	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
Gangavai	.31919	28489	0	0	0	0	16485	14315	100	100	0	0	48504	42904
Koppal	3652	3000	0	0	0	0	30106	25890	52	38	0	0	33810	28928
Kushtagi	0	0	0	0	0	0	13215	11443	0	0	0	0	13215	11443
Yelburga	0	0	0	0	0	0	18004	16198	0	0	0	0	18004	16198
	35571	31489	0	0	0	0	77810	67846	152	138	0	0	113533	99473

Source: Koppal District at a Glance, 2016-17.

#### Thungabadra Dam

The Tungabhadra river is formed by union of two rivers, viz., the Tunga and Bhadra, boh of which rise at Gangamula in the Varaha Parvata of the Western Ghats. This is also a perennial river, very deep in certain places and almost unaffordable even in the dry season. This river enters the district near Kesalapur village at the south-western tip of Koppal taluk. The general slope of the land in the district being north-west to south-east, the Tungabhadra has a large number of rivulets and streams serving as tributaries. However, non of these streams of any great importance by itself and they generally o dry during the summer. There is Tungabhadra reservoir at Munirabad, which is in the border of Koppal taluk. Yelburga taluk does not have river.

Salient Feature of Tungabhadra Dam							
Attribute	Value	Attribute	Value				
Name of Dam	Tungabhadra	Min Draw Down Level (MDDL)(m)	497.74				
	Dam						
Nearest City	Hospet	Gross Storage Capacity (MCM)	3766				
District		Live storage capacity (MCM)	3700				
State	Karnataka	Design Flood (cumec)	18406				
River Name	Tungabhadra	Type of Spillway	Ogee				
Basin	Krishna	Length of Spillway (m)	701				
Type of Dam	Earthen +	Type of Spillway Gates					
	Gravity						
Purpose of Dam	Irrigation,	Number of Spillway Gates	33				
	Hydroelectric						
Year of Completion	1953	Size of Spillway Gates (m*m)	18.29 x 6.10				
Catchment Area (Th ha)	2818	Land affected- Total (Th ha)					
Length of Dam (m)	2443	Land affected- Culturable (Th ha)					
Max Height above foundation (m)	49.39	Land Affected- Forest (Th ha)					
Max Water Level (m)	497.74	Land Affected- Others (Th ha)					
Full Reservoir Level (m)	497.74	Number of Villages Affected	90				

#### **Forest:**

Forest area of the district is very insignificant due to rocky hills and mountains. There is no wild life in the district. The major types of species found in the forest are Neem, Tamarind, Eucalyptus, Honge, Acacia arculiforms, Casium species etc. The Gangavathi taluk possesses forest area of 14482 hectares which is about 10.96% of the total geographical area; the Yelburga taluk possesses forest only area of 80 hectares which is very meager about 0.05% of the total geographical area (see table-5.5).

#### Agriculture:

Agriculture is the main resource of the Koppal district. Agriculture has played an important role in the economic development of the district and it is bound to be a prominent sector in the overall development of the district. Agriculture in the district is dependent upon rainfall, irrigation tanks, wells, streams etc. Agriculture in Gangavathi taluk is dependent mainly on Tungabhadra canal irrigation; while in Koppal, Kushtagi and Yelburga taluk is dependent mainly on rainfall, tanks, wells etc.

In Gangavathi taluk, Paddy is the prominent crop occupying 43.14% of total sown area due to availability of irrigation facilities. During Kharif season major crops like Paddy, Jowar, and Maize are grown. During Rabi season major crops are Paddy and Jowar. In summer season crops like Groundnut,

Sunflower and Vegetables are grown with the help of irrigation.

In Yelburga taluk during Kharif season major crops like Wheat, Jowar, Maize, Paddy, Pulses are grown. During Rabi season Jowar, Bajra, Sunflower, Groundnut and Cotton are grown. In summer season crops like Groundnut, Sunflower and Vegetables are grown with the help of irrigation. Cotton is the cash crop grown in the taluk. Agriculture in Yelburga taluk is mainly dependent on rainfall, wells etc. Low level of ground water and alkaline are the major obstacle for the agriculture in the taluk. There is restriction for new bore wells and the entire taluk is declared as "Grey Area" for agriculture.

#### **Horticulture:**

The district comes under northern dry zone; the climatologically factors are very much suitable for growing the horticulture crops. Nowadays horticulture plays prominent role in the local occupation of the district. The data available during the 2003-04 the district is having an area of about 14329 hectare with production of 2.3 lakhs tones of horticulture crops.

Gangavathi taluk falls under north dry zone with black soil is favorable for growing horticultural crops like Mango, Pomegranate, Banana, Sapota, Grapes etc. There is wide scope for growing horticulture produce unless marketing conditions and cold storage facilities have to be improved. The horticultural crops like Mango, Banana, Pomegranate, Watermelon, Sapota, Grapes, Tomato, Ladies finger, Onion, Gourd varieties are grown in the taluk. Fruits are grown in an area of 622 hectares and Vegetables are grown in an area of 3046 hectares during the 2003-04.

As for Yelburga taluk, the farmers are not coming forward to increase (774 hectares during 2003-04) the area under horticultural crops due to the absence of suitable marketing and cold storage facilities. The horticultural crops like Pomegranate, Lemon and Grapes are grown in the taluk. Fruits are grown in an area of 362 hectares and Vegetables are grown in an area of 412 hectares during the 2003-04. The farmers of the district are very much interested in adopting hi-tech horticulture. Specially, green house cultivation of vegetables and growing flowers under controlled conditions, keeping export point in mind. In addition, the farmers are adopting hi-tech water management facilities specially, drip irrigation and sprinkler irrigation. The district is having an area of 435 hectares under oil palm crop distributed at Kavalur, Hirebidnal, Hiresindogi and Irkalgad villages.

#### **Administrative Structure**

Koppal District is a handy district having four revenue taluk as well as educational Blocks Viz. Koppal, Gangavati, Kustagi and Yelburga. According to Panchayath Raj Act three tire system of administrative in koppal is actively working at present.Zillah Penchant, Taluka Panchayath and Grama Panchayath are working in co-Ordination with each other. The number of members in each area are given in the below table.

Auministrative Structures								
Block	ZP Member	TP Member	No of GPs	No of GPMs				
Gangavati	8	32	39	792				
Koppal	7	26	36	660				
Kustagi	6	23	29	599				
Yelburga	6	23	33	571				
Total	27	104	137	2622				
		a	D C O M					

Administrative Structures

Source: DC Office Koppal.

## CHAPTER-3 HAZARD, RISK, VULNERABILITY, CAPACITY (HRVC) ANALYSIS

This chapter deals with potential hazards which may have to be faced by the district, probable time of occurrence, vulnerability of the district to different disasters its analysis and analysis of the risk involved. This acts as a reference, upon which mitigative measures, rescue, restoration and rehabilitation plan etc. are planned successfully. Any error in HRV analysis will compound the problems / effects of a disaster. Therefore a careful attempt has been made to achieve the realistic analysis of hazard, risk and vulnerability pertaining to Koppal district.

#### HAZARD ANALYSIS

The Hazard may be termed as any event/object/rivers/industries/earthquaque /fire/building/excess or deficit of rainfall which can cause a potential damage to a population/Animals/property/environment etc., an analysis involving occurrence magnitude, volume of hazards and the impact caused by such hazards gives a proper direction to prepare a plan to deal with such eventualities. Hazard analysis of Koppal district comprises of seasonality of different hazards, history, and area affected etc. with a special emphasis on hazard due to breach of dams.

#### Flood:

Almost all the districts in Karnataka are facing the brunt of moderate to severe floods. Floods are associated with cloud bursts, cylones or depressions in the Bay of Bengal and Arabian Sea. The floods are quite common in the districts of Belgaum, Bijapur, Bagalkote, Raichur, Gulbarga, Shimaoga, Chikkamagalur, Udupi, Coorg, Bellary, Dakshina Kannada, Dharwad, Davanagere, Gadag, Hassan, Uttara Kannada, **Koppal,** Bidar, Bangalore (R), Bangalore (U), Kolar, Mandya, Mysore, and Chamarajanagara. Koppal district also flood affected from some areas in Thunga Bhadra River.

#### **Drought:**

Karnataka stands Second only to Rajasthan in terms of Drought Affected areas. The state ishighly vulnerable to drought as compared to its neighbouring states. Every year, more than 50% of the talukas are declared as drought affected. About 152.1 Lakhs ha (80%) out of 190.238 Lakh ha is affected by drought in Karnataka. Groundwater levels are depleting due to successive droughts and quality of water is getting deteriorated in terms of Fluoride, Nitrate and Salinity. Although, drought may not pose great danger immediately within a few minutes as could happen in case of a severe earthquake, it has huge impact on the occurrence of loss of livelihoods, exodus, poverty, unrest, terrorism, robbery etc.

#### Drought may occur due to:

- Deficit of rainfall
- Depletion of ground water
- Inadequate supply of water through surface water bodies like rivers, streams, canals, tanks etc.
- Insufficient moisture in the sub surface layer of the soil and

• Increase of demand for water as compa red to availability

#### Heat Wave

#### What is Heat wave

There is no universally excepted definition for heat wave, it is generally defined as a prolonged period of temperature above normal (excessive heat). As per World Meteorological Organization (WHO) heat wave is defined as "when the daily maximum temperature of more than five consecutive days exceeds the average maximum temperature by 5°C."

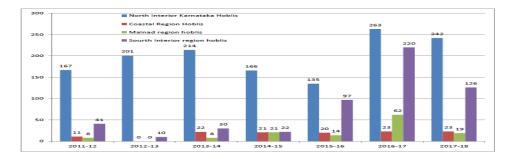
As per India Meteorological Department (IMD) for heat wave to be declared, following criteria to be met:

#### **Heatwave in Koppal District**

The Koppal District comes under North Interior Karnataka Region (NIK). As shown in the bellow map depicted that, the Koppal District is likely affected by Heatwave.



The below given temperature maps clearly depicts North Interior Karnataka are prone to high temperature for a longer duration from 2011 to 2018. As a part of North Interior Karnataka Koppal District is also more prone to high temperature which leads to Heatwave. However, temperature is not the sole criteria for heatwave, relative humidity and other other meteorological factors factors determine the heatwave conditions. Threshold values of temperature and relative humidity is to be determined for each district of Karnataka to take specific action plan.



Graph depicting no of hoblis recorded temperature greater than 40 degrees from 2011-18

#### Need for Heat wave Action Plan

The Heatwave Action plan is intended to protect the population from heat-related harm to health, thus reducing heatwave related morbidity and mortality among population in Koppal district.

It aims to create awareness, prepare, alert, and prevent avoidable impacts of heatwave on health during periods of severe heat in Koppal district. The Heatwave Action Plan brings about coordinated approach by synergies with existing plans and strategies of concerned departments and engages all stakeholders to reduce heatwave related health impact by identifying vulnerable groups and creating awareness in Koppal district.

#### Main components of Heat Wave Action Plan

Main componants of the Koppal District Heatwave Action Plan-2019 are as follows,

- Building Public Awareness about heat wave, do"s and don"ts and management through innovative IEC activities focusing mainly on vulnerable communities. Community Outreach Program at ward level and panchayat level.
- 2. Dissemination heat wave alert to community using Early Warning System
- 3. Capacity Building among Health Care Professionals and community.
- 4. Reducing Heat Exposure and Promoting Adaptive Measures.

#### **Industries:**

Koppal district have fmous for Iron manufacturing and other products. It is one type hazards in the district in future days. Some industries in Koppal district have following below table:

## DETAILS OF WORKING LARGE INDUSTRIES FOR THE QUARTER ENDING ON 31.12.2018 OF KOPPAL DIST.

S No.	Name of the unit	Address	Product manufactured	Investment (In Crores)	Employment
1	Kirloskar Ferrous Industries Ltd	Bevinahalli, Tq & Dist: Koppal	Pig Iron, Grey Iron castings	231.00	803
2	Hospet Steels Ltd (Comprises Kalyani Steels & Mukund Ltd)	GinigeraTq & Dist: Koppal	Pig Iron, Hot Metal, Billets, Blooms, Alloy Steels & 8 MW Electric Power	590.00	936
3	Bhoruka Power Corporation Ltd	Shivapura, Tq.Koppal	Hydro Electric Power	30.48	35
4	Sri Indra power Energies Ltd.	Chikkajanthakal, Tq: Gangavathi,	Bio Mass Electric Power	24.00	49
5	Koppal Green Power Ltd.	Karatagi, Tq: Gangavathi, Dist: Koppal	12.6 MW Biomass Based Thermal Power	25.70	49
6	M/s.Ravikiran Power Projects Ltd.	Kampli Road Gangavathi,	Bio Mass Electric Power	35.00	125

7	Dhruv Desh Metasteels Pvt Ltd	No. 502, Ranka Apartments, Richmond Circle, Bangalore, Hirebaganal Village Tq;Koppal	Sponge Iron 1 Lakh MTPA & 8 MW Power Generation	48.40	72
8	Vanya Steels, & Engineering Pvt. Limited, Changed from,	12/7C, South Tuko Ganj, Nath Mandir, Chouraha, Indora, Madhya Pradesh, Hirebaganal Village Tq;Koppal	Sponge Iron of Capacity 200 TPD	24.50	100
9	Harekrishna Metalics Pvt. Limited	Cresent Towers 229, A.J.C. Bose Road, 6th Floor, Kolkata West Bangal, Hirebaganal Village Tq;Koppal	M.S. Billets 150000 TPA and Rolled Steel Productions	85.00	176
10	Praxiar India Pvt.Limited	Post Box No. 4251, No. Ulsoor Road, Bangalore-560042, Ginigera Village Tq:Koppal	Industral Gases (Expension Programme)	134.00	26
11	Baba Akhila Saijyothi Indstries Pvt. Limited	Chikkabaganal Village, Tq & Dist: Koppal.	Sponge Iron of Capacity 30000TPD	16.60	105
12	Ultra Tech Cements Limited	A.P. Cement Works, Bogasamundra Village, Tadapatri Mandal, Anantpurta District, Andhra Pradesh., Ginigera Village Gangavathi Road, Tq: koppal	Cement Grinding	150.00	42
13	Trivista Steel & Power Pvt. Ltd.	No. 169, Indiranagara, Mohan Nagara (Po) Salem-, Hirebaganal Village, Tq: Koppal	Sponge Iron Plant 2 x 100 TPD & 4 MW Captive Power Plant	46.60	242
14	Bhadrashree Steel & Power Limited	# 4638/21, Upper Ground Floor, Ansari Road, Dary Ganj, New Delhi, Kunikeri Village, Tq:Koppal	Sponge Iron of Capacity 200 TPD	24.13	155
15	M.S.P.L Ltd. / Pellet Plant	BaldotaEnclave Abheraj Baldota Road Hospet. Halwarthi Village Tq:Koppal	Pellet Plant	318.37	306
16	ILC Iron and Steels Private Ltd.,	Kunikera Village Tq/Dt:Koppal	Sponge Iron	67.00	101
17	M S Metals Private Ltd.,	Door No.324, Ward No.31, Nehru Co-Operative Colony Hospet	Sponge Iron	48.86	42
18	Madhava Solar Pvt Ltd	Sy No- 128/A, 128/AA,128/E/N Kolihal Village Tq: Yelburga Koppal District	Solar Power	42.24	10
19	Madhava Solar Pvt Ltd	Sy No- 128/A, 128/AA,128/E/N Kolihal Village Tq: Yelburga Koppal District	Solar Power	42.24	10
	TOTAL			1984.12	3384

	r	51.12.2010	JF KOPPAL DIST		
S.No	Name of the unit	Address	Product manufactured	Investment (In Crores)	Employment
1	M.S.P.L Ltd. (Vijaya Oxygen)	Baldota Mansion, Dam Road, Hospet.	Oxygen & Nitrogen (Liquid & Gas)	8.02	112
2	Tungabhadra Fertilisers & Chemicals Pvt Ltd	Munirabad RS Tq & Dist: Koppal	Powdered & Granual Single Super Phosphate	5.44	54
3	RPG Telecom Ltd.	Hanumasagar Tq. Kushtagi	Wind Power	8.98	40
4	ILC Industries Limited	No. 6/7, Dam Road, Hospet, Marlanhalli, near Kartagi	Rice Mill 50,000 MTPA Capacity	7.10	50
5	K.P.R. Agrochem Ltd., Changed Name from, 21/09/2015	Halavarthi village, near kunikera tanda, koppal	SSP & DCP	25.00	215
6	SNC Foods	Sy. No. 97, Chandanahalli Road Kartagi Tq:Gangavathi Dt: Koppal.	Rice	20.27	32
7	NYS Granites Impex Pvt Ltd	Sy. No. 35/2/5, Bandargall Village Tq:Kushtagi Dt: Koppal.	Granite Cutting & Polishing	13.41	30
8	Dodla Diary Limited	Sy No.163, 164 Indra Nagar Indargi Village Tq:Koppal	Milk & Milk Products	19.61	98
9	Abhay Solvents Pvt Limited	Hospet Road Koppal	Refined Rice Bran Oil, Deoiled Bran Acid Oil, Fatty Acid Wax	15.67	79
10	M/s: Hiranmayi Granites & Mineral Private Limited,	Sy No-52/3, Bhandargal Village, Tq: Kushtagi	Granite Cutting and Polishing	7.72	28
11	M/s: B K Industries, Sy No- 74/1, 75/6 R G Road Karatagi Tq: Karatagi	Sy No- 74/1, 75/6 R G Road Karatagi Tq: Karatagi	Rice	8.59	30
	TOTAL			139.81	768

# DETAILS OF WORKING MEDIUM INDUSTRIES FOR THE QUARTER ENDING ON 31.12.2018 OF KOPPAL DIST

## OCCURRENCE OF DISASTERS IN THE PAST IN KOPPAL DISTRICT

Disasters	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Earthquake	-	-	-	-	-	-	-	-	-	-	-
Floods	-	-	-	-	-	-	Yes	-	Yes	Yes	Yes
Cyclones	-	Yes	-	-	-	-	-	-	-	-	-
Droughts	-	-	Yes	Yes	Yes	Yes	-	Yes	-	Yes	Yes
Industrial	-	-	-	-	-	-	-	-	-	-	-
accidents											
Fire	-	Yes	-	-	-	-	Yes	-	-	-	-
Road/rail	-	-	-	-	-	-	-	-	-	-	-
accidents											
Boat capsize	-	-	-	-	-	-	-	-	-	-	-
Mine	-	-	-	-	-	-	-	-	-	-	-
accidents											
Heat Wave											

## Seasonality of hazards in Koppal district:

Type of	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
hazard												
Flood						$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
Drought			$\checkmark$	$\checkmark$	$\checkmark$					$\checkmark$	$\checkmark$	$\checkmark$
Cyclone				$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
Fire	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Land Slide						$\checkmark$	$\checkmark$					
Accident	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Food	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
poisoning												
Earthquake	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Heat Wave					$\checkmark$							

## Likelihood Occurrence Of Natural Disaster

Hazard Type	Iazard Type Likelihood		Estimated Impact on
	Occurrence	Public Health & Safety	Property
	Likely/Unlikely	Limited/Moderate/Major	Limited/Moderate/Major
Drought	Likely	Limited	Moderate
Earthquake	Unlikely	Limited	Limited
Flash Flooding/Heavy Rains	Likely	Moderate	Moderate
Flooding River/Tidal	Likely	Limited	Limited
Wildfire	Unlikely	Moderate	Moderate
Winter storm	Unlikely	Moderate	Moderate
Heat Wave	Likely	Moderate	Limited

## Likelihood occurrence of Technological Disaster

Hazard Type	Likelihood	Estimated Impact on	Estimated Impact
	Occurrence	Public Health & Safety	on Property
Dam Failure	Unlikely	Limited	Limited
Energy/Fuel Shortage	Occasional	Limited	Limited
Hazmat/Oil Spill (Transport)	Likely	Major	Moderate
Major Structural Fire	Likely	Moderate	Major
Water System Failure	Unlikely	Moderate	Moderate

#### Risk

The probability of harmful consequences, or expected loss (of lives, people injured, property, livelihoods, economic activity disrupted or environmental damaged) result- ing from interactions between natural or human induced hazards, and vulnerable / capable conditions. Conventionally risk is expressed by the equation

Risk = Hazards x Vulnerability / capacity

Beyond expressing a probability of physical harm, it is crucial to appreciate that risks are always created or exist within social systems. It is important to consider the social contexts in which risks occur and that people therefore do not necessarily share the same perceptions of risk and their underlying causes.

#### **Risk Assessment/Analysis**

A process to determine the nature and extent of risk by analyzing potential hazards and evaluating existing conditions of vulnerability / capacity that could pose a potential threat or harm to people, property, livelihoods and the environment on which they depend.

The process of conducting a risk assessment is based on a review of both technical features of hazards such as their location, intensity and probability, and also the analysis of the physical, social and economic dimensions of vulnerability, while taking particular account of the coping capabilities pertinent to the risk scenarios.

Human Lives Lost	22 People
Loss of Livestock	685
House Damaged	75,088
Agriculture Crops loss	1,66,962 Hector
Horticulture Crop Damaged	13,799 Hector
Roods Damaged	646 Kms
Bridge Culvert	348
Tank Damaged	06
Major Irrigation Damaged	92
Minor Irrigation Damaged	17
Water Supply Damaged	530
Power Supply Damaged	6,835
Govt Building Damaged	34
Fishery Damaged	71
Health Hospital Damaged	154

#### Flood Effects on 2009 in Koppal District:

**Sources**: Govt of Karnataka Report on 20<sup>th</sup> October-2009

#### VULNERABILITY AND RISK ASSESSMENT

There are instances of many man-made disasters such as strikes and incidents of fire and burning of buses and vehicles at the time of strikes, Road accidents are common. A few rail accidents have taken places.

#### **Proneness to different Disasters:**

Type of hazard	Time of occurrence	Potential impact	Vulnerable area
Floods	June – August	Loss of crops, damage to infrastructure	Along the river courses,
		such as roads, houses, bridges, etc.	entire district.
Heavy Rainfall	June – August	Loss of crops.	Entire district.
Drought	Aug – Oct	Burning of crops, scarcity of drinking	Partly in Koppal, Kustagi
		water, fodder, etc.	and Yalburga Taluka
Fire accident	Jan - May, any time	Loss of life and property	Entire district especially
			during festivals/jathre, etc.
Earthquake	Any time	Loss of life and damage to dam,	Entire district.
		property, houses, buildings, etc.	
Chemical disasters	Any time	Loss of life and damage to dam,	Chemical industries,
		property, houses, buildings, etc.	petroleum tanks, chlorine.
Cyclonic indirect	June – Aug	Heavy rainfall, loss of crops	Entire district.
effect			
Heat Wave	Mar-May	Burning Crops, Scarecity of drinking	
		water, fodder Health problems with	
		Human and animals, Chance of Fire	
		accidents.	

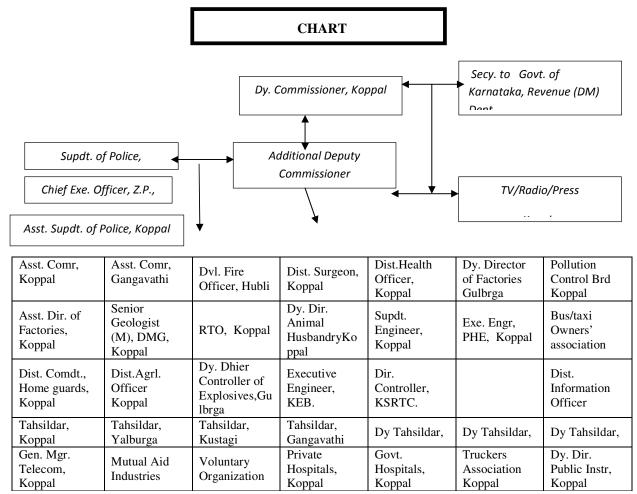
During rainy season, rivers and its tributaries in the district may pose threat of floods. Things get worse as the flood devastates the crops in the affected area and is also a source of epidemics. The district had never experienced any earthquake expect minor tremors from time to time. Since the district falls under seismic zone II and III, i.e., less risk to moderate risk zones, the possibility & can never be ruled out as it can happen any time. Drought may occur due to want of rain at proper time. or sometimes heavy rainfall may damage the crops. Cyclonic effect in the eastern coast and Bay of Bengal may cause excessive rainfall which would result in crop damage and other loss. Fire accidents and incidents such as strikes, burning of vehicles are frequently happening in the district particularly fire accident occurs during the summer season.

#### **Capability Analysis**

The existing capacity in terms of human resource, materials and machines necessary for disaster preparedness before, during and after the disasters are listed.

Human Resource: Authorities & agencies involved in Disaster Management.

#### OFF SITE EMERGENCY PLAN AT A GLANCE



#### Storage of food

All the Gram Panchayat offices are being used as storage points when need arises. Secretaries of Gram Panchayats and Asst. Directors and Deputy Directors are the contact persons. Adequate quantity rice/ragi has been kept for distribution to the victims in the godowns. These locations could also be used as storage points for medicines, blankets etc.

#### **Important Departments and Organsation**

All the departments working under the D.C. such as S.P., A.C., Tahsildar, S.E/E.Es of PWD/Irrigation, Commandant, Home Guards/Fire Force Officer, DHO, Municipal Commissioner/Chief Officers, etc., are connected with telephone (both external and internal), VHFs will be installed. All the line departments are directed to keep themselves ready as per the guidelines mentioned in this plan. NGOs and private sector agencies including private firms and industries are asked prepare them with disaster management plans. The resources available with different agencies are identified.

The resources available in the district with both private and Government have been compiled. The list of vital installations such as Dam, transformers, telecommunication centres, wireless relay stations etc., have been provided with protection and security and the same will be intensified during disaster.

Resource	Capa	bility		Ava	ailability	ability	
	Group of villages	Taluk	District	Group of	Taluk	District	
	level	level	level	villages level	level	level	
Police		Yes	Yes		Yes	Yes	
Fire Brigade		Yes	Yes		Yes	Yes	
Home Guards		Yes	Yes		Yes	Yes	
Power supply		Yes	Yes		Yes	Yes	
Defence			Yes			Yes	
Water supply	Yes	Yes	Yes	Yes	Yes	Yes	
Civil Supply and Food	Yes	Yes	Yes	Yes	Yes	Yes	
Engineering service		Yes	Yes		Yes	Yes	
Health service	Yes	Yes	Yes	Yes	Yes	Yes	
NGOs		Yes	Yes		Yes	Yes	
Private Hospitals	Yes	Yes	Yes	Yes	Yes	Yes	
Railways	Yes	Yes	Yes	Yes	Yes	Yes	
Colleges student/		Yes	Yes		Yes	Yes	
Volunteers							
Airways			Yes			Yes	
Safe shelters	Yes	Yes	Yes	Yes	Yes	Yes	
CBOs	Yes	Yes	Yes	Yes	Yes	Yes	

## **Police Department Koppal District**

## Statement Showing the Station wise Allotted Present Staff Position and Allotted Vehicle Details

Name of the Police Station	Present Available Staff (in number's) Allotted Vehicles						Vehicles		
Station	CPI	PSI	ASI	CHC	CPC	WHC	WPC	JEEP	M' CYCLE
Koppal town	1	1	5	15	29	0	8	3	9
Koppal rural	1	1	4	14	24	0	5	2	3
Koppal Traffic	0	0	4	9	35	0	2	2	
Alwandi	0	1	2	6	15	1	4	1	2
Munirabad	0	1	3	8	22	0	5	1	0
Yelburga	1	1	2	9	21	0	4	2	0
Kukanoor	0	1	3	9	13	0	5	1	2
Bevoor	0	1	3	8	17	0	3	1	2
Gangavati Town	1	1	5	16	35	1	6	2	5
Gangavati Rural	1	1	5	14	26	0	4	2	2
Gangavati Traffic	0	0	4	13	26	0	0	2	4
Kanakagiri	0	1	1	9	17	0	2	1	4
Karatagi	0	1	3	11	15	0	2	1	0
Kushtagi	1	1	4	18	24	0	9	2	4
Hanamasagar	0	1	4	9	17	0	2	1	1
Tawaragera	0	1	2	8	15	0	5	1	0
CEN Police station	1	2	2	8	18	0	8	1	0
Women PS	0	0	2	6	9	1	12	1	1
Total	7	16	58	190	378	3	86	27	27

## **Department of Home Guards**

## CONTACT DETAILS OF THE HOME GUARDS DEPARTMENT.

S.NO	NAME	DISIGNATION	CONTACT DETAIL	S			
5.NU	S.NO NAME	DISIGNATION	OFFICE RESIDENCE				
01	Sri Hanamantrao.A.M	Commandant	08539-225533	9480715589			
02	Shivasharanappa	F.D.A	08539-225533	9632034828			

S.NO	Name of the taluka	Men Home	Women Home	Total Home
5.NO	Name of the taluka	Guards	Guards	Guards
01	Koppal	172	40	212
02	Gangavathi	175	09	184
03	Kushtagi	81	06	87
04	Yalburga	97	-	97
	Total	525	55	580

### The number of Home Guards in the Koppal District is as follows

## HOME-GUARDS PERSONNEL TRAINED IN DIFFERENT ASPECTS OF CIVIL DEFENCE.

ಬೇಸಿಕ್ ಮತ್ತು ಅಡ್ವಾನ್ಸ ಫೈರ್ ಫೈಟಿಂಗ್ ತರಬೇತಿ ಪಡೆದ ಗೃಹರಕ್ಷಕರ ವಿವರ.

ಕ್ರ.ಸಂ	ಗೃಹರಕ್ಷಕರ ಹೆಸರು	ಮೆ.ಸಂ	ದಿನಾಂಕದಿಂದ	ದಿನಾಂಕದವರೆಗೆ	ಘಟಕದ ಹೆಸರು.
01	ವಿಜಯಮಹಾಂತೇಶ	492	02.03.2016	15.03.2016	ಗಂಗಾವತಿ
02	ಬುದ್ದೀವಂತಪ್ಪ.	56	22.11.2016	24.12.2016	ಕೊಪ್ಪಳ
03	ನಾಗರಾಜ ಮಂಜುನಾಥ	103	22.11.2016	24.12.2016.	ಕೊಪ್ಪಳ
04	ಗವಿಸಿದ್ದಪ್ಪ ಕಲಾದಗಿ	1223	03.02.2017	15.02.2017	ಕುಕನೊರು
05	ಈರಪ್ಪ ಶೀಳಗಣ್ಣವರ್	1231	03.02.2017	15.02.2017.	ಕುಕನೂರು
06	ಮೊಹಮ್ಮದ್ ರಫಿ ಕುದರಿ	1234	15.11.2017	21.12.2017.	ಕುಕನೂರು
07	ಈರಪ್ಪ ಶೀಳಗಣ್ಣವರ್	1231	15.11.2017	21.12.2017.	ಕುಕನೂರು

## ಪ್ರಥಮ ಚಿಕಿತ್ಸೆ ತರಬೇತಿ ಪಡೆದ ಗೃಹರಕ್ಷಕರ ವಿವರ

ಕ್ರ.ಸಂ	ಗೃಹರಕ್ಷಕರ ಹೆಸರು	ಮೆ.ಸಂ	ದಿನಾಂಕದಿಂದ	ದಿನಾಂಕದವರೆಗೆ	ಘಟಕದ ಹೆಸರು.
01	ಮೋಹಿನಪಾಷಾ	631	22.06.2016	02.07.2016	ಕನಕಗಿರಿ
02	ಶ್ರೀಧರ ಸೂಡಿ	635	22.06.2016	02.07.2016	ಕನಕಗಿರಿ
03	ಡಿ.ಹೆಚ್.ರೇಣುಕಾ	572	11.07.2016	21.07.2016	ಗಂಗಾವತಿ
04	ಗೌರಮ್ಮ.	559	11.07.2016	21.07.2016	ಗಂಗಾವತಿ
05	ವಿನಾಯಕ ಎಂ ಹೆಚ್	502	05.06.2017	17.06.2017	ಗಂಗಾವತಿ
06	ಕೆ. ಮಲ್ಲಿಕಾರ್ಜುನ.	513	05.06.2017	17.06.2017.	ಗಂಗಾವತಿ
07	ಈರಮ್ಮ.ಎಂ	190	24.10.2017	04.11.2017	ಕೊಪ್ಪಳ

## ಲಘು ರಕ್ಷಣಾ ತರಬೇತಿ ಪಡೆದ ಗೃಹರಕ್ಷಕರ ವಿವರ

ಕ್ರ.ಸಂ	ಗೃಹರಕ್ಷಕರ ಹೆಸರು	ಮೆ.ಸಂ	ದಿನಾಂಕದಿಂದ	ದಿನಾಂಕದವರೆಗೆ	ಘಟಕದ ಹೆಸರು.
01	ಶಾಂತಕುಮಾರ ತಳಕಲ್ಲ	203	02.02.2016	12.02.2016	ಮುನಿರಾಬಾದ
02	ವಿರುಪಾಕ್ಷಪ್ಪ ಕಟಂಬಲಿ	313	02.02.2016	12.02.2016	ಅಳವಂಡಿ
03	ಶಕೀಲಪಾಷಾ	503	20.02.2017	03.03.2017	ಗಂಗಾವತಿ
04	ಮಲ್ಲಿಕಾರ್ಜುನ ಎಂ	513	20.02.2017	03.03.2017	ಗಂಗಾವತಿ
05	ಹನುಮಂತಪ್ಪ ತೋಟದ	849	20.10.2016	16.11.2016	ಕುಷ್ಟಗಿ.

## ಗೃಹರಕ್ಷಕರ ಬೋಧಕರ ತರಬೇತಿ ಪಡೆದ ಗೃಹರಕ್ಷಕರ ವಿವರ

ಕ್ರ.ಸಂ	ಗೃಹರಕ್ಷಕರ ಹೆಸರು	ಮೆ.ಸಂ	ದಿನಾಂಕದಿಂದ	ದಿನಾಂಕದವರೆಗೆ	ಘಟಕದ ಹೆಸರು.
01	ಅಮರೇಶ	22	01.01.2009	28.01.2009	ಕೊಪ್ಪಳ
02	ಎಸ್. ತಿಮ್ಮಣ್ಣ	478	01.01.2009	28.01.2009	ಗಂಗಾವತಿ

## ಯು ಎಕ್ಸ್ ಬಿ ತರಬೇತಿ ಪಡೆದ ಗೃಹರಕ್ಷಕರ ವಿವರ

ಕ್ರ.ಸಂ	ಗೃಹರಕ್ಷಕರ ಹೆಸರು	ಮೆ.ಸಂ	ದಿನಾಂಕದಿಂದ	ದಿನಾಂಕದವರೆಗೆ	ಘಟಕದ ಹೆಸರು.
01	ಹುಲ್ಲಣಸಾ ತುಳಸಿಕಟ್ಟೆ	652	10.12.2008	22.12.2008	ಯಲಬುರ್ಗಾ
03	ಗೋಪಾಲಶಾಸ್ತ್ರಿ	334	28.01.2009	07.02.2009	ಗಂಗಾವತಿ

### The list of Home Guards obtained training in the Koppal District is as follows

S.NO	Name of the taluka	Men Home	Women Home	Total Home
5.10	Name of the taluka	Guards	Guards	Guards
01	Koppal	05	01	06
02	Gangavathi	10	02	12
03	Kushtagi	01	-	01
04	Yalburga	05	-	05
	Total	21	03	24

## Health Facility in Koppal District

## Taluk wise Number of Hospitals, beds and Blood Banks available in District

		Alopa	thy	Indian	System	Pvt	Prim	ary	Comn	nunity	Blood		
		Hospit	tals	of Mee	licine	Hospitals	Heal	th	Health	1	Bank		
S.No	Taluks	(Govt-	+Pvt)	Hospitals		Pvt) Hospit		(including	Cent	res	Center	rs	
						Homes)							
		Nos	Beds	Nos	Beds	No	No	Beds	Nos	Beds			
1	Gangavati	15	250	1	10	11	11	60	3	90	1		
2	Koppal	19	694	4	22	0	15	84	2	60	1		
3	Kushtagi	11	184	0	-	1	9	54	1	30	0		
4	Yelburga	18	278	0	-	26	14	88	3	90	0		
	Total	63	1406	5	32	38	49	286	9	270	2		

Source: District Health and Family Welfare Department and K.A.G-2016-17

# CHAPTER-4 MITIGATION PLAN

#### Mitigation, Definition

Mitigation and Prevention are used as synonyms. Some prefer to drop the term Mitigation and use only Prevention. The term Mitigation can be comprised in the term Prevention. Mitigation means to reduce the severity of the human and material damage caused by the disaster. Prevention is to ensure that human action or natural phenomena do not result in disaster or emergency. Primary prevention is to reduce -avertavoid the risk of the event occurring, by getting rid of the hazard or vulnerability, e.g. to avoid overcrowding, deforestation and to provide services. Healthier people in a healthy environment will be less vulnerable to most hazards. E.g. immunizing people against smallpox made them less vulnerable to the virus, and slowly eradicated the disease. Secondary prevention means to recognize promptly the event and to reduce its effects, e.g. by staying alert to possible displacements of population; by being ready to provide immunization, food, clean water, sanitation and health care to refugees. Healthier people in a healthy environment will also be more capable to overcome the emergency. Mitigation plan involves preventive measures, preparedness and immediate relief eruptions to be carried out when a disaster is struck. The response time is the most crucial element in minimizing of damages. Therefore putting in place of teams and materials at a right place and at a right time is the main objective of a mitigation plan.

#### **Principal Objectives of Mitigation**

- Save lives
- Reduce economic disruption
- Decrease vulnerability/increase capacity

## RISK REDUCTION

• Decrease chance/level of conflict

#### Mitigate measures to be taken in case of natural Disaster.

- Slowing down the spreading of mine, industrial and forest fires and their mitigation
- Damage due to earthquake, landslides and other mass movements can be minimized through early warning systems and timely evacuation of population. Drainage, sub surface drainage, embankments, strengthening of slopes, raising vegetation on sloppy surfaces, constructing of culverts etc. helps mitigating the damage.
- In case of earth quakes emergency evacuation, scratch resume and relief from important action plan in disaster management
- Programs of disaster management/ mitigation encompass a wide range of options ranging from issuance flood warnings to reduction of flooding to actual evacuation.

#### Synopsis of Mitigation plan: -

#### **Phase-Pre-Disaster**

Activities	Officials involved
Identification of disaster prone major accident hazard units and	Dept. of Factories

industries involving hazardous processes periodically and update.	
	Management CDC
Hazard, risk and vulnerability (HRV) analysis has to be identified and	Management, CDC
reviewed periodically.	
All the identified major accident hazard units and industries involving	Management, Dept. of Factories
hazardous process are required to develop a comprehensive on site	and Boilers
emergency plan coordinating the resources available at the site against	
the HRV	
Mock rehearsals shall be schemed to assess the strength and	Management Dept., District
weaknesses in the mitigation procedure.	Crisis Group
Hording showing the Do's and don'ts in the event of emergency shall	Management of Industries
be displayed at all strategic location around the plant to sensitize the	
public around the plant.	
Periodical training on first aid fire fighting and casualty handling	Management Police, Fire
during emergencies shall be programmed.	Services, Dist. Commandant
Identification of resources against the HRV	Management
The vulnerability area shall be periodically checked for its integrity	Management, Directorate Fire
and safe working conditions.	Services, Factories
Preparation of Resource directory showing the resources available in	Directorate of Factories, DCG
and around the industry.	
Community awareness programmed shall be designed by distributing	Management Police, Fire
pamphlets, classes highlighting about the hazards and do's and don'ts	Services, Dist. Commandant
in the event of emergency.	
Duties and responsibilities of 1 <sup>st</sup> responders' viz., Fire Services,	CDC, Police, Fire, Revenue
Police, Health, Home guards, shall be clearly defined and shall be	
informed.	
Periodical evaluation of resources at the control room	CDC, Fire Services
Identification of shelters, temporary shelter camps with accessibility	Revenue department
and infrastructures	
Identification of routes, rallying posts, parking places	Police, Fire Services
Listing and documenting the home guards required for law order,	Dist. Commandant, Home guards
assistance to the police assistance at the temporary shelters	
Preparation of list of experts to seek their opinion during emergency	CDC, Dept. of Factories
mitigation	-
Ensuring proper functioning of warning and communication system.	CDC, Revenue
Updating of telephone numbers at the control room.	
Identification and listing of hospital - infrastructure facilities	DHO
Identification and listing of blood banks, medical shops, stockiest	DHO
Identification and listing of vehicles required for immediate	RTO
requisition	KI0
Identification of listing of earth moving equipment, vehicles for	RTO
transportation and documenting	KIO
Identifying resources for temporary electricity and lighting	KDTCI
	KPTCL
arrangement, identification and listing of personnel and support	
system for immediate action	Demons (DC
Identifying NGOs for deployment to work at the rehabilitation centers	Revenue, CDC
and to derive resources	
Identification of any pollution effects due from the disasters and to	KSPCB
advice CDC on the next course of action	
Identification and supply of availability of potable water sources,	PHE, Commissioner
Identification and supply of availability of potable water sources, water purification tablets, construction of temporary shelters and	PHE, Commissioner
Identification and supply of availability of potable water sources,	PHE, Commissioner Veterinary Dept.

#### Prevention and response strategies:

Officers are responsible to ensure proper preventive and response measures before the disaster (in anticipation), during the disaster (concurrent stage) and after disaster (post disaster stage). These measures are integrated into the preparedness and response plan. The mechanism for co-ordination, monitoring and supervision of prevention, rescue and relief operations are clearly specified.

The respective sugar cane industries and other industries and all the private factories have prepared their on-site disaster management plan as per the Factories Act. Weak points in the river embankments which require constant watch at the time of monsoon. The irrigation Department is ready with the plan to face any eventuality of breaching of reservoirs, embankments, etc., which may result in flood. EE has been instructed to keep the channels/nalas clean for free flow of water before the onset of monsoon.

The Department of Agriculture is ready with contingency plan for crop loss or drought situations. Pests and fertilizers are available during any disaster situation. Field staffs are alert to help the farmers to protect their crop.

The Forest Department has got plan for prevention of forest fire or any kind risks due to vulnerability of any kind to forest in the district.

#### Administrative preparedness

All the Tahsildars Koppal District have been inspired and instructed to form groups of Village Accountants, Revenue Inspectors, Deputy Tahsildars, wherever nodal officers are available and to identify the vulnerable areas and also to plan for the local publicity at the time of such incidents. The taluk level officers like Executive Officer, Asst. Executive Engineers, Block Educational Officers and all other departments are also asked to be in our team to provide necessary help to provide shelter, food, repairs of roads, culverts, etc., wherever required. Karnataka Power Transmission Corporation Ltd., GESCOM, Medical Staff and Municipality or Panchayat Staff has been asked to extend their services, within their limits. Almost all the social workers, NGOs and the likeminded people have been asked to provide their services in times of need.

All the officers were kept in touch with the DDMA Heads, both in taluk and district level. Police, Home guards were kept in red alert especially in project areas and on river banks. And also to identify the places where rehabilitation camps are to be opened, facilities to provide drinking water, food providing facility and areas available resources are to be identified. Medical facilities, NGO assistance, maintenance of cattle, open space for all their activities are also to be kept in mind in identifying the mitigation plan. The slum areas, the people living in low line areas, backwater level areas were kept in mind, and high alert and wide publicity arrangements were also made.

#### **Drought Mitigation Plan**

Drought is a normal, recurrent feature of climate and characterized in terms of its spatial extension, intensity and duration. Conditions of drought appear when rainfall is deficient in relation to the statistical

multi-year average for a region, over an extended period of a season or a year, or even more. Drought is a temporary aberration unlike aridity, which is a

permanent feature of climate. Drought produces wide-ranging impacts that span across many sectors of the economy and are felt far beyond the area experiencing physical drought. Direct or primary impacts of droughts are usually associated with reduced agricultural production; depleted water levels; higher livestock mortality rates and damage to wildlife and fish habitats. When direct impacts have multiplier effect through the economy and society, they are referred to as indirect impacts in terms of reduced income for farmers and agri-business, increased prices for food and timber, unemployment, reduced purchasing capacity and demand for consumption, default on agricultural loans, and reduction in agricultural employment leading to migration etc.

#### **Drought Mitigation**

Mitigation measures are initiatives undertaken to reduce the incidence or minimize impacts of drought. Besides drought proofing, these measures help in adapting to climate change, restoring ecological balance and bringing development benefits to the people. However, drought mitigation programmes are not to be construed stand-alone interventions that are to be implemented only in the wake of a drought; but must form part of developmental planning in the domain of soil conservation, watershed development and forestry. As such, drought mitigation measures are to be mainstreamed in regular development programmes of Central and State Governments.

Government's policy towards drought management has changed considerably over the years and now rests upon early warning & preparedness, crisis management response, medium and long-term drought mitigation measures with greater application of state-of-the art technology and scientific tools. A number of Central Governments Schemes/ Programmes have evolved over time to address the need for medium and long-term drought mitigation requirements. Notable among them are Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS), Integrated Watershed Management Programme (IWMP), subsuming erstwhile Drought Prone Area Programme (DPAP)), National Rural Drinking Water Programme (NRDWP), Swarna-jayanthi Grameen Swarozgar Yojana (SGSY), Rashtriya Krishi Vikas Yojna (RKVY), Fodder & Feed Development Scheme etc. Besides, various area development programmes by State Governments either through their own resources or with Government of India's support like Backward Region Grant Fund (BRGF), Rural Infrastructure Development Fund (RIDF) are contributing significantly to enhance drought resilience. Central and State Governments continue to consider further possibilities of reorienting/synergizing regular development programs for achieving a robust drought resilient regime.

#### **Structural Mitigation for Drought**

a) Artificial recharging of ground water, watershed programmes in privately owned small/marginal farms, laying of pipes/channels for exclusive transportation of water to dry areas;

- b) Programme for reconstruction and preservation of traditional water harvesting structures, construction of canals for transportation of water from surplus to non-surplus areas, establishment of cost-effective drip /sprinkle irrigation practices etc.
- c) Construction of watershed structures at the right place where water recharge can be enhanced/will be used for life saving irrigation at critical stages of crop growth and during drought situations.
- d) Construction of "Community Ponds" through Panchayat Raj Institutions (PRI) and maintenance by levying user charges.
- e) Augmentation of agro-based food processing industries in rural areas for sustenance of employment,
- f) Establishing chain of cold storages to minimise post-harvest losses along with adaptation of appropriate post-harvest management practices like pre cooling, cold storages and refrigerated transport. Pre-harvest losses due to diseases and pests can also be minimized through better management practices;
- g) Construction of shelters for cattle and development of infrastructure for storage and transportation of dry and green fodder etc.;
- h) Ensuring provision of medicines and critical health care in the risk prone areas during drought for humans and animals;
- i) Ensuring efficient functioning of the PDS in drought affected areas;
- j) Provision of adequate infrastructure for dissemination of weather based advisories to the farming community on real-time basis in regional languages through extension machineries;
- k) Providing credit promptly in the drought affected areas and extending marketing and price support to farmers;
- Insurance products need to be developed for different agro-climatic zones providing coverage against drought. The Central/State Governments need to promote, agricultural insurance programmes and ensure that farmers are informed about the availability of insurance products and educate them about the need for managing their yield and income risks through insurance coverage;
- m) Identifying, procuring and keeping in readiness drought proofing materials in required quantities before the onset of monsoon season such as :- Seed & fodder Plan (including alternative varieties, mini kits etc. keeping in view the impending drought);

#### Non-Structural Mitigation Measures for Drought

For creating an enabling environment for the mitigation measures existing laws including the following (illustrative) would need to be considered/reviewed/updated:-

- I. Revisiting Mahatma Gandhi National Rural Employment Guarantee Act/Operational Guidelines of MGNREGS to include/strengthen drought mitigation measures;
- II. Updating of State Scarcity Relief Manuals which replaced the erstwhile famine codes on the lines of Manual for Drought Management at National level;

- III. Establishing a definite procedure and fixing of time frame for attending to drought relief measures;
- IV. Establishing an appropriate water regulatory regime in consultation with the States;
- V. Empowerment of Panchayats, Municipalities, Local bodies and inclusion of drought mitigation measures as part of their role in Eleventh and Twelfth Schedules of Constitution of India.

#### **Mitigation measures for Road Accidents:**

Road Accident is a major killer and takes place without warning. Rate on road accidents, are ported indicate that 70% of road accidents, areas from drivers negligence. Some other reasons are poor road condition, heavy traffic, poor vehicle maintenance possible impacts of accident of individuals are loss of life, Trauma Care & burns.

- 1. The provisions of Motor Vehicles Act and other related legislation's and regulations are strictly enforced.
- 2. Adequate Highway and traffic Aid post will be created.
- 3. Trauma Care Centers shall be established at every 100 kms. On the National and State Highway.
- 4. Speed monitoring equipments and computerization of movement of vehicles with adequate checkpoints on the National Highway will be introduced.
- 5. Fixation of timings to the passenger vehicles to avoid and traffic fan. Identify and designate routes and fixing the time for transportation of hazardous chemicals and other materials.
- 6. Prohibit the parking of vehicles on National Highway and State Highway.
- 7. Excavation on roads will be protected well particularly in the night with barricades fluorescent signs and red lights.
- 8. PWD and National Highway department should concentrate on removal of bottlenecks on National and State Highway.
- 9. Efforts will be made to provide road dividers on National and State Highway on priority basis.
- 10. Arrangements will be made adequate embankments/reflector/proper signs on curves.
- 11. Arrangements will be made information signs boards giving the local of the nearest village Police Station, Hospital, Ghat Traffic Position, Petrol pump, etc. at every traffic aid post.
- 12. All two-wheeler drivers including pillion riders must always wear the right kind of helmet.
- 13. Overtaking in vehicles is regulated.
- 14. Frequently accidents occurring spots will be identified and precautionary measures will be taken.
- 15. Lanes will be marked for pedestrians/Cyclists.

Since accidents general result in injuries, burns or loss of life providing emergency medical facilities is of utmost importance. Relief teams comprising medical personnel and transport authorities have to be rushed to the spot provide first aid and shifting the injured to the nearest hospital. Upon arrival at the accident spot the team should immediately provide first aid to the victims and look for persons trapped inside the vehicle. Assistance of the local police should be sought to disperse any crowds that may hinder effective relief measures. If the magnitude of the accident is high help of

local NGOs and volunteers may be taken.

In case of major building collapse the major role is to be played by the Fire Department with the assistance of the Police and Health Authorities. Shifting victims to the nearby hospital should be done after providing necessary first aid. Necessary equipment to remove debris should be kept readily available to save victims who may be buried inside. Volunteers and NGOs must be trained properly to handle such so that emergency relief is carried on smoothly. Fire disasters occur mainly due to carelessness or mischief by miscreants. Preventive measures such as avoiding storage of large quantities of combustible materials in one place, firefighting equipment in petrol filling stations, textile, plastic, paper and wood industries should be insisted upon during inspection by the concerned authorities. Personnel of the fire brigade are well equipped to handle any fire hazards and regular drills and training sessions are held.

#### **Earthquake Mitigation Plan:**

The recent devastation in Gujarat has been an eye-opener as regards the magnitude of loss to human life and property. Hence, the District Administration has geared up the various Departments to effectively meet the challenge of an earthquake.

Since, earthquakes strike without forewarning and generally any measurement on the Rector scale is usually a post operative measure, prevention in respect of earthquakes is imperative.

The main hurdles as regards planning are as follows:

- Structural planning of individual buildings.
- Communication lines.
- Electricity and water supply.
- Health hazards.
- Loss of life, property and employment.

Preventive steps are required in the following areas:

- Public structures.
- Dams.
- Roads.

• Maintenance of health and prevention of epidemic diseases. Since, earthquakes are natural calamities dissemination of proper information, awareness, stocking of proper machinery and equipment are the prerequisites to tackle such a situation.

#### **Earthquake Mitigation**

#### General steps to be taken for maintaining calm in case of earthquake

- 1. Public to be educated to remain calm and not to panic.
- 2. Not to enter or exit from buildings when tremors are felt.
- If indoors, take protection/shelter under a heavy object, which can sustain weight Of heavy objects.
   Ex. A heavy desk, a study table, a strong cot etc.
- 4. Protect the head with covering such as books, pillows, blankets etc.

5. If outdoors to stay away from buildings, walls, tress, etc, as they are likely to collapse or get uprooted.

EARTHQUAKE MITIGATION				
Before the Disaster	During the Disaster	After the Disaster		
<ul> <li>Check for hazards in the home</li> <li>Identify safe places in each room</li> <li>Locate safe places outdoors</li> <li>Ensure all family members know how to respond after an earthquake</li> <li>Teach children when and how to call Emergency</li> <li>Have disaster supplies on</li> <li>Develop an emergency communications plan in case of separation during the earthquake</li> </ul>	<ul> <li>If indoors: Take cover under a piece of heavy furniture or against an inside wall and stay inside</li> <li>If outdoors: Move into the open, away from buildings, street lights, and utility wires and remain there until shaking stops</li> <li>If outdoors: Move into the open, away from buildings, street lights, and utility wires and remain there until shaking stops</li> <li>If outdoors: Move into the open, away from buildings, street lights, and utility wires and remain there until shaking stops</li> <li>If in a moving vehicle: Stop quickly, stay in vehicle, move to a clear area away from buildings, trees, overpasses, or utility wires</li> </ul>	<ul> <li>Be prepared for after shocks</li> <li>Help injured or trapped persons and give first aid where appropriate</li> <li>Listen to a battery operated radio for emergency information</li> <li>Stay out of damaged buildings and return home only when authorities say it is safe</li> </ul>		

6. If driving, it is safe to stay inside the vehicle, as it is likely to provide protection from falling objects.

#### Mitigation Plan for the forest fire

Fire plays a very critical role in the habitat management. Forests are very valuable in this district and form a major portion of the area .One of the main factors that have accelerated the degradation of forest cover is the occurrence of fire which has almost become an annual feature. The glaziers, firewood and MFP collectors and tourists tend to set fire deliberately or by accident. Smugglers and poachers also set fire to the forest to divert the attention of field staff. Due to the forest fire the natural regeneration is lost and the forests are deprived of rich humus. Wild animals particularly herbivores and reptiles are the worst sufferers for want of green foliages while innumerable soil fauna will be destroyed , which play a very important role in maintaining the ecological balance by decomposing and releasing energy from dead plant and animals. Hence preventive and fire control measures have been given much importance in the habitat development.

#### **Probable causes for forest fires**

The forest areas are susceptible for fire in the months of January to end of June i.e. the summer season. Considerable damage takes place every year due to the ground fire that occurs in the forests. The leaves which fall on the ground is the fuel for fire. Also the grass dries because of sunlight & becomes fuel to the fire. Also dried bamboos in the forests act as fuel to the fire. Plantation which are raised are also susceptible to the fire and at the initial stages if there is fire then the plantation itself fail and causes heavy loss. In the high forests the regeneration is severely affected. The humus is also burns & causes losses of Carbon & fertility of soil, there is also resultant compaction of soil and consequent poor porosity. Further forest regeneration is also affected. The fire also affects the former and the young regeneration of the forest and destroys. Medicinalplants & rare herbs. Normally the fire occurs

intentionally by the villagers for the purpose of getting fresh grass for the purpose of grazing. There are accidental fires due to negligence of the nearby villagers & Poachers. The fires are controlled immediately by fire watchers & staff with the assistance of villagers.

#### Existing practice to tackle the forest fires are as follows

Prior to the fire season the fire lines of 3.2 m. width are created to stop the fire from entering from one block to another, these fire lines are created near roads, around plantations, along forest boundaries, D'lines and strips within forest areas. Forest camps are established at sensitive points and forest staffs stay round the clock & rush to the spot in groups as soon as they get the fire occurrence information over wireless and extinguish the fire.

#### Mitigation in case of Floods:

Floods caused extensive damage to human, animal and plant life. Flood result in rendering many people homeless leading to devastation and total chaos to lack of communication and means of transportation. Koppal district is vulnerable to floods due to breach of dams. There is a major dam of **Thunga Bhadra Project** and **Herehalla** situated in the district.

These dam and Herehalla sites are thoroughly studied by the scientist and Engineers and ensured the safety of the construction at the time of foundation. Still precautionary measures have to be taken to mitigate the disaster.

#### **Existing facilities**

Facilities available in the villages in the flood plain zone and also villages on higher elevations nearby have been identified. These facilities are in the form of school buildings, panchayat buildings land temples. In case of emergency such buildings will be mobilized to serve as shelters temporarily. In addition requirement of tents has also been assessed. Sources who can supply tents at a very short notice have been identified. Depending upon the need of the hour external relief will be mobilized.

Time of travel of flood wave from the time of occurrence of disaster is assessed in the Study of Dam breaks analysis. The minimum time available at the nearest habilitation is about <sup>1</sup>/<sub>2</sub> an hour. Transport requirement for emergency evacuation has been assessed. Keeping in view, the time available at respective locations, required transport facilities can be mobilized through transport department.

Number of boats and coracles available and their locations have been identified and are enlisted in chapter-logistics. These can be put to service at short notice. In case of extreme emergency, machine boat services will also be mobilized. Such facilities are available and can reach the spots within about 3 hours. During such situations maintenance of law and order is very important. Help of police and home guards will be taken. There are number of police stations and police out posts in the nearby areas. District administration will be informed to keep some additional force during the monsoon season. If need be help will be taken of the reserve police force, stationed at district head quarters. As evacuation during emergency has to be carried out immediately, the flood reaches a particular village such operation may be required to be done round the clock. For operation during night, illumination in the villages is very important. These are n surety of uninterrupted power supply. Therefore, alternate lighting arrangements are necessary. It is proposed to mobilize, LPG lanterns, petro maxes, etc., in addition, advantage will be taken of the head lights of transport vehicles.

In the nearby taluk head quarters, there are fair price shops. The Revenue Department will be requested to keep extra stock of food grains and kerosene, so as to mobilize the same for the affected villages in case of emergency. From the taluk headquarters transportation can be done within a period of 2 hours.

At the taluk headquarters there are primary health centers and so also in big villages. During the monsoon season and in case of emergency medical facility and help can be mobilized. The distances are such that within two hours site can be reached. In addition there are private medical practitioners in almost all the villages. These can be mobilized for providing first aid in case of an emergency.

#### Action before flood: Pre-Flood arrangement

- DDMA to meet at regular intervals
- To keep the Control Rooms functional
- Repair of river and canal embankments and guarding of weak points.
- Keep rainfall reports.
- To publish rain gauge-readings and preparation of maps and charts.
- Assigning charge of flood circles.
- Dissemination of weather reports and flood bulletins issued by the metrological centers, Central Water Commission. Flood Forecasting Organization.
- Deployment of boats at strategic points.
- Use of power boats.
- Installation of temporary Police Wireless Stations and temporary telephones
- In flood-prone areas.
- Arrangement for keeping telephone and telegraph lines in order.
- Storage of flood in interior, vulnerable, strategic and key area.
- Keep the drainage system de-silted and properly maintained.
- Agricultural measures.
- Health services.
- Veterinary services.
- Identify flood shelters.
- Training in flood relief work.

#### **Emergency Measures to be taken.**

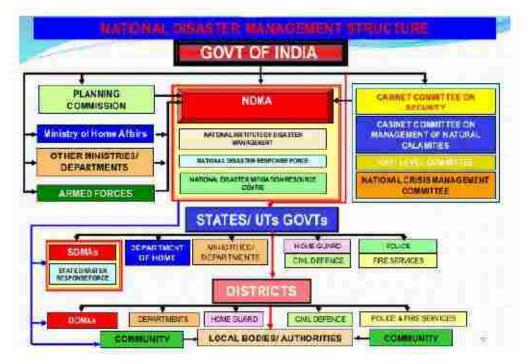
It is imperative that rescue and evaluation operations are taken up by the district administration without any loss of time. People living in low-lying areas are forewarned to evacuate the place and are shifted to a safe environment. Relief centers are to be set up to provide adequate food, clothing, shelter and water to the persons shifted. For shifting people and animals rafts and boats are to be kept ready and services of ex-service men and sports persons who are good swimmers are employed for relief measures.

Members of the flood relief committee will work in accordance with the action plan and press into service the NGO's and other youth who are trained to meet the exigency. At the village level, the panchayat members and the volunteers are requested to identify members of the families especially children and ensure that evacuation is done in-groups, which will make the task re-location easier. Adequate stock of food grains, rafts, boats and other equipment for shifting affected persons and animals. Alternate shelters for communities headed by coordinator, to ensure that proper medical facilities are provided to the affected families. In case of deaths, proper documentation to be done after identifying the deceased and necessary steps taken to dispose the corpse to prevent health hazards. NGO's and other volunteers to set up kitchens in the shelters for providing food to the evacuees.

Before the DisasterDuring the Disaster• Learn warning signs and communityDuring a flood watch: If indoors:	• Be cautious when
• Learn warning signs and community During a flood watch: If indoors:	• Be cautious when
<ul> <li>alert systems</li> <li>Stockpile emergency building materials</li> <li>Install check valves in sewer traps to</li> <li>Get pre-assembled emergency supplies</li> <li>Ut the later transmission</li> </ul>	and sparks throughout the home for several hours afterward

Necessary food grains to be provided by the district administration.

# CHAPTER-5 INSTITUTIONAL MECHANISM



#### A. National Disaster Management Authority (NDMA)

National Disaster Management Authority has been constituted with the Prime Minister of India as its Chairman, a Vice Chairman with the status of Cabinet Minister, and eight members with the status of Ministers of State. Each of the members has a well defined functional domain covering various states as also disaster specific areas of focus and concern to carry out the mandated functions, NDMA has evolved a lean and professional organization which is IT-enabled and knowledge based. Skills and expertise of the specialists are extensively used to address all the disaster related issues. A functional and operational infrastructure has been built which is appropriate for disaster management involving uncertainties coupled with desired plans of action. The concept of the organization is based on a disaster divisions-cumsecretariat system. Each member of the Authority heads disaster-specific divisions for specific disaster and functional domains. Each member has also been given the responsibility of specified states and UTs for close interaction and coordination. The NDMA Secretariat, headed by a Secretary is responsible to provide secretarial support and continuity. It is proposed to have two Disaster Management Wings under the Secretariat. They are:-

- DM I wing dealing with mitigation, preparedness, plans, reconstruction, community awareness and dealing with financial/administrative aspects.
- DM II wing is proposed to be composed of the National Disaster Management Operations Centre with the state-of-the-art multi-redundant communication systems, to carry out the tasks of capacity development, training and knowledge management.

#### B. Karnataka State Disaster Management Authority

THE DISASTER MANAGEMENT ACT, 2005 (NO53 / 2005) DATED 23rd Dec 2005 received the ascent of the President, Government of India.

- Based on the provisions contained in the Disaster Management Act 2005, the Karnataka State has adopted the DM Act 2005 and as per the section 14(1) the state has established State Disaster Management Authority. The Chief Minister of Karnataka is the Ex-officio Chairperson of the Karnataka State Disaster Management Authority and 8 Cabinet Ministers are members to the Authority.
- As per the DM Act 2005, the State Government has constituted the District Disaster Authority in each of the district with Deputy Commissioner's of the district as the chair person of the authority and concern department as its members (including ZP).
- The State Executive Committee (SEC) is chaired by the Chief Secretary, Government of Karnataka and Principal Secretaries of Agriculture, Home, Rural Development and Panchayat Raj and Director General of Fire & Emergency Services (permanent invitee) are members of the SEC. SEC meets every quarter or whenever there is emergency situation to take stock of the situation and give necessary instructions to all stakeholders to address the situation. The Chief Secretary and SEC Chairperson is the Commander (Incident Command System) at the State level.
- Government has constituted the State Crisis Management Committee under the Chairmanship of Chief Secretary of Government of Karnataka and other stake holders as its members, vide G.O number RD 61 ETC 2007(P-1) dated 27-04-2010.
- The Administrative structure in the Government for Disaster Management is under the Revenue Department and is being headed by the Secretary to Government, Revenue Department (Disaster Management), the Deputy Secretary, Under Secretary and DM section with supporting staff.
- The KSDMA co-ordinates with all departments of the state to effectively implement the DM Act 2005. It has got responsibility to address Disaster Management issues and Disaster Risk Reduction programs.
- KSDMA has prepared Disaster Management Guidelines, Policies, Standard Operating Procedures for 11 key departments, State Disaster Management Plan and District Disaster

Management Plan.

State Disaster Management Authority (SDMA) has been constituted by the State Govt. under the chairmanship of Hon'ble Chief Minister and Hon'ble Revenue Minister as Vice chairperson. Composition of Karnataka SDMA is as follows.

S.No	SDMA Members	Designation
1.	Chief Minister of Karnataka	Chairman, Ex-officio
2.	Minister for Revenue	Vice-Chairman
3.	Minister for Home	Member
4.	Minister for Agriculture	Member
5.	Minister for Health and Family Welfare	Member
6.	Minister for Rural Development and Panchayat Raj	Member

7.	Minister for Public Works	Member
8.	Minister for Animal Husbandry	Member
9.	Minister for Housing	Member
10.	Minister for Energy	Member
11.	Chief Secretary (Chairman of SEC)	Chief Executive Officer
12	Secretary, Dept. of Revenue(D M)	Member Secretary

#### **Cabinet Sub-Committee On Disaster Management**

Cabinet Sub-committee on Disaster Management is formed under the Chairmanship of Revenue Minister. The Cabinet Sub-Committee meets regularly to take stock of situation especially drought situation gives necessary guidance and directions. The composition of SEC is as follows:

Sl. No	Cab. Sub-Committee Members	Destination
1.	Minister for Revenue	Chairman
2.	Minister for Law and Parliamentary affairs	Member
3.	Minister for Rural Development and Panchayat Raj	Member
4.	Minister for Horticulture and Agriculture Marketing	Member
5.	Minister for Co-operation and Sugar	Member
6.	Minister for Agriculture	Member
7.	Minister for Food and Civil Supplies and Consumer Affairs	Member
8.	Minister for Minor Irrigation	Member

#### **State Executive Committee**

State Executive Committee (SEC): has been constituted under the chairmanship of Chief Secretary. SEC has the responsibility for coordinating and monitoring the implementation of the National Policy, the National Plan and the State Plan as provided under section 22 of the Act. The composition of SEC is as follows:

Sl. No	SEC Members	Designation
1	Chief Secretary to Government of Karnataka	Chairperson, Ex- officio
2	Addl. Chief Secretary/Principal Secretary to the Government, Home Department	Member
3	Principal Secretary/Secretary to the Government, Rural Development and Panchayat Raj Department	Member
4	Principal Secretary/Secretary to the Government, Agriculture Department	Member
5	Director General of ATI	Member
6	Director KSNDMC	Member
7	Secretary to the Government, Revenue Department (Disaster Management)	Member Secretary
8	Director General of Police and Director General of Fire and Emergency Services, Home Guards, and Civil Defence	Permanent Invitee

State Disaster Response Force (SDRF): Karnataka is raising 4 companies of SDRF. SDRF is a hybrid force which consists of personnel from state police, reserve police, and fire and emergency personnel. This force is raised exclusively for rescue and relief operations in times of disasters.

The Disaster Management function at district level is assigned to the district disaster management authority (DDMA), headed by the deputy commissioner.

The Koppal district comprises of members from various govt. Department, major industries & institutions in the district.

#### The District Disaster Management Authority

1.	Deputy Commissioner, Koppal.	Chairperson
2.	President Zilla Panchayath, Koppal	Co-Chairman
3.	Chief Executive Officer, Zp, Koppal	Member
4.	Superintendent Of Police, Koppal	Member
5.	District Health Officer, Koppal	Member
6.	Executive Engineer, ZP, Koppal	Member
7.	Joint Director, Agriculture Dept Koppal	Member
8.	Addl. Deputy Commissioner, Koppal	Chief Executive Officer

#### The District Crisis Management Committee Koppal

1. Deputy Commissioner, Koppal.	Chairperson
2. Additional Deputy Commissioner, Koppal	Emergency Officer
3. Superintendent Of Police, Koppal	Member
4. Chief Executive Officer, Zp, Koppal	Member
5. District Forest Officer, Koppal.	Member
6. Assistant Commissioner Koppal Sub-Divisions.	Member
7. District Commondant, Home Guards, Koppal	Member
8. District Fire Officer, Koppal	Member
9. District Health Officer, Koppal	Member
10. Deputy Chief Controller Of Explosives, Koppal	Member
11. Regional Environmental Officer, Koppal	Member
12. Commissioner, CMC, Koppal	Member
13. Regional Transport Officer, Koppal	Member
14. Information & Publicity Officer, Koppal	Member
15. Joint Director Of Agriculture, Koppal	Member
16. Trade Union Leader, Koppal	Member
17. DD Animal Husbandry & Veterinary Services	Member
18. Senior Inspector Of Factories, Koppal	Member
19. Station Director, All India Radio, Koppal.	Member

#### Incident Response System (IRS) at District level

Effective response planning requires realistic likely identification of response functions, assigning specific taska to individual agencies and supply of goods commodities and services to given agencies this crisis response plan requires incident command system in place. The RS is an on scene management system to deal with wide variety of disasters the IRS management function includes following 4 functions,

- Command
- Operations
- Logistics
- Planning

Incident Response System teams forms an important component of IRS.

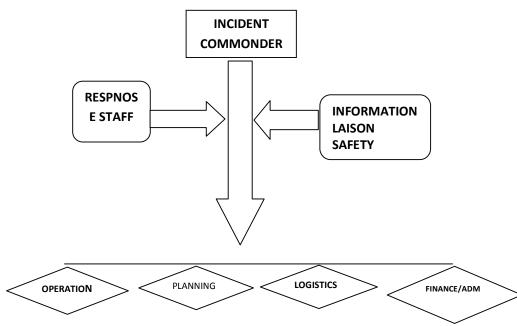


Chart showing command flow in IRS

# The Deputy Commissioner as a district incident commander does the following;

- 1. Assessment of situation
- 2. Determine objectives and formulate strategy
- 3. Establish immediate priorities
- 4. Establish incident command post
- 5. Set up organizational structure & response
- 6. Overall planning
- 7. Approve & authorize implementation of actions by defferent agencies
- 8. Ensure public safety measures
- 9. Co-ordinate between incident command post & general staff
- 10. Co-ordinate between people & officers.
- 11. Approve request for additional resources
- 12. Approve the use of students NGO's etc
- 13. Authorize the release of information to the media
- 14. Order the demobilization of teams at appropriate times.

# The following officers act as Deputy to the district incident Response.

- 1. Information officer (district information officer) Keep a close watch & organize media briefings.
- 2. Liaison officer- (ADC)
- 3. Safety officer (sub-division/ taluka police officer)

# **Functions of IRS**

1. Operation functions – to mobilize

- a. Ground or surface based tactical resources
- b. Aviation resources
- c. Staging areas (temporary location)

2. Planning function – collects evaluate processes and disseminates information to manage an incident. Involves the activation of following

- a. Resources unit
- b. Situation unit
- c. Documentation unit
- d. De-mobilization unit

3. Logistic function.- responsible for facilities transportation, communication, supplies, equipment maintenance food services, medical services & ordering services. This involves following 6 units

- 1. Supply unit
- 2. Facilities unit
- 3. Ground support unit
- 4. Communication unit
- 5. Food unit
- 6. Medical unit

4. Finance/ administrative functions- to manage all financial aspects of an incident. Comprises following units

- 1. Time unit
- 2. Procurement unit
- 3. Compensation/claim unit
- 4. Cost unit

# Duties and responsibilities of key functionaries in the district

• The emergency responsibilities of key persons in the district are listed below. These duties and responsibilities are common to all types of major emergencies or disasters, (i.e., Natural or Manmade). The Emergency Organization Members will prepare, maintain and be guided by

these during any major disaster in the district. Individuals assigned to these functions are expected to co-ordinate their actions with the Deputy Commissioner, who is the District Disaster Manager, will co-ordinate the overall action with all other agencies involved including the District Administration.

- It may be noted that depending on the type of emergency and also availability of staff and resources, functions of various agencies may vary. At times, each person may be required to assume additional responsibilities in addition to their normal duties. This would be the prerogative of Deputy Commissioner to assign the additional responsibilities to the members of the emergency organization.
- It may be necessary to develop agreements with neighboring districts or other organizations if resources are not available within the district for some of these functions
- Following are the duties and responsibilities of the members of the Emergency Organization. These are general in nature and applicable to all types of emergencies.

#### District Disaster Manager (Deputy Commissioner)

#### **Deputy: Additional Deputy Commissioner**

The Deputy Commissioner prepares, maintains and keeps updated the District Disaster Management Plan for prevention and minimization of injury and damage caused by a major emergency or disaster. Prompt and effective response to a major emergency or disaster, relief and recovery, is in consonance with the District Disaster Management Plan. The responsibility includes initiating and maintaining co-ordination and co-operation with various agencies involved , provide prompt information, take decisions and providing infrastructure facilities as requested, to mobilize, direct, and co-ordinate the emergency management staffs during emergency.

#### Following are the main functions of the Dy.Cmmissioner during any emergency

- Declaration of emergency after confirming the magnitude of the disaster.
- Activate the Emergency Control Room at Deputy Commissioner's office and make it functional.
- Co-ordinate and establish contact with all agency involved in the emergency actions.
- Ensure setting up of Local Emergency Control Room close to the scene of accident or at Taluk headquarters where the disaster has struck.
- Ensure actions have been initiated to contain the emergency.
- Have overall supervision of all the emergency relief operations.
- Initiate evacuation of people from affected area with the assistance of police, fire and other agencies.

- Depending on type of emergency, mobilize additional resources like heavy lifting gears line cranes, bulldozers for rescue and mitigation operation.
- Set-up safe shelters for evacuated people and ensure they are provided with food and medical attention as the need be.
- Monitor progress or disaster especially in case of natural disasters like cyclone or floods by getting information from various agencies involved and mobilize additional support to mitigate the effects of disaster.
- Keep the State Administration informed regarding the disaster and the steps taken to contain the same.
- Issue statement to the press (both print and electronic media) on the prevailing conditions and the steps being taken by the District Administration to mitigate effects of the disaster.
- Get mutual aid from neighboring districts the Major Hazard Industries or seek the assistance of voluntary organization.
- If required, set-up mobile first aid centre or temporary health centres in the affected area or in the safe shelters.
- Visit the scene of the disaster to have first hand information about the rescue or mitigative operations that are being carried out.
- In case of floods, carry out aerial survey of the affected area to have preliminary estimates of the extent of damage caused.

# District Disaster Manager (Deputy Commissioner)

# **Deputy: Additional Deputy Commissioner**

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- If required, set-up mobile first aid centre or temporary health centres in the affected area or in the safe shelters.
- Visit the scene of the disaster to have first hand information about the rescue or mitigative operations that are being carried out.
- In case of floods, carry out aerial survey of the affected area to have preliminary estimates of the extent of damage caused.
- To co-ordinate with the state government through Principal Secretary, Dept. of Labor, Govt. of Karnataka and mobilize the help of Army/Navy/Air force or other agencies are requires.
- Call off emergency after confirming that all the actions have been taken to normalize the conditions and it is safe for people to re-enter the affected areas.

# Disaster Manager (Assistant commissioner)

# Alternate: - Tahsildar

The concerned Assistant Commissioner is Disaster Manager and he would rush to the Local Emergency Control Room (LECR) which is set up at the taluk headquarter of the affected taluk. He would function as the link between the affected area and the District Disaster Manager based at the main ECR located in the Deputy Commissioner office at Koppal.

# Following are the main functions during any emergency

- Set up the LECR at the concerned Taluk headquarters or at a safe place close to the scene of the disaster.
- Depending on the nature of emergency, co-ordinate with the various agencies at local level.
- Initiate the rescue operation with the help of local police, fire or other voluntary organizations and mutual aid members.
- Have close interaction with the Site Controller to ensure proper actions have been taken.
- Visit the affected area to gain first hand information of various steps being taken to mitigate the effects of the disaster.
- Keep the main Emergency Control Room at district head quarters informed about the developments on a regular basis and request for additional help by way of resources or specialized manpower or equipment

# TASK FORCE FOR DISASTER MANAGEMENT DURING EMERGENCIES

Assistant Commissioner: To communicate with core committee, supervise and co-ordinate between Depts)

AEE, PWD	Dy. SP/CPI	Tahasildar	Taluk Medical	AEE, ZP	Animal Husbandry
			Officer		& Veterinary Services
To provide	To maintain	To provide	To co-ordinate	To provide clean	To provide
transport to	law and order	food,	with PHCs and	drinking water,	fodder and
evacuees and	and provide	drinking	provide	temporary	veterinary
Undertake repairs	free passage	water and	Medical relief.	shelters (school	services
to roads And	to evacuees	milk		buildings etc.,)	
buildings.					

# SITE CONTROLLER (Tahsildar of affected Taluk)

# Alternate: - Deputy Tahsildar

The Site Controller would be at the scene of the disaster or accident and would be reporting to the Disaster Manager located in the Local Emergency Control Room. He is the person who is dealing with the disaster directly in association with the various other emergency services. He would be in direct contact with the Disaster Manager based at the Local Emergency Control Room (LECR).

His responsibilities vary widely depending on the type of emergency. It could be a natural disaster like flood the effects are wide spread where rescue work would be of main concern. It

could be a road accident involving a tanker carrying hazardous chemical where quick action has to be taken to arrest the leakage, if any, followed by evacuation of people if required.

#### Following are the main functions any emergency: -

- Take measures to mitigate the emergency in association with various emergencies services like fire and police.
- Keep in constant touch with the Local Emergency Control Room at taluk head quarters with available means of communication and keep Disaster Manager informed about the developments on regular basis.
- Request for additional help like specialized manpower or equipment to effectively handle the emergency.
- Rescue and evacuate the people from affected area and shift them to safe shelters.
- Ensure setting up of safe shelters with basic amenities for food sanitation.
- Mobilize medical professional with the help of ECR or LECR and ensure the affected persons are given medical attentions.
- Arrange to shift the injured or sick to specialized hospitals if need be.

# Law and order function: Superintendent of Police

#### Alternate: - Sub-divisional Police Officer (SDPO)

It is observed that the police are the first agency to reach the site during any emergency. The local police initiate the emergency action even before the declaration of emergency and setting up of the ECR at Deputy Commissioner Office, Hassan. Even though the main function of the Police is to maintain law and order, it is observed that most of the rescue and relief operation is initiated by the police before arrival of full-fledged rescue teams.

# Following are the main functions of Police (at various) levels during any emergency Superintendent of Police (SP)

After receiving instructions from Deputy Commissioner, the Superintendent of Police will rush to the ECR and establish contact with the local police station. He would then direct implementation of the action plan through the police station nearest to the scene of disaster. Depending on the type of disaster, ensure cordoning off the affected area by the local police.

- Mobilize additional police force from various sources depending on the requirement.
- Ensure co-ordination with various police and other agencies involved in handling the disaster.
- If necessary mobilize the home guards.

#### SDPO of the concerned Sub Division:

The SDPO of the sub-division where the disaster has struck would get in touch with the nearest police station and ensure the police team is rushed to the scene of the emergency. His

main function would be to act as link between scene of the accident and the Emergency Control Room at Koppal.

- On receiving information from the Emergency Control Room, he would rush to the site, assess the situation, obtain first hand information, take control of the overall situation.
- Alert district administration to mobilize Reserve Police personnel for deployment for traffic regulations, supervision of evacuation and security duties.
- Alert area District Commandant of Home guards to mobilize home guards, as necessary (and keep the SP informed).
- Arrange for necessary transportation vehicles for rescue operation in consultation with RTO.
- Arrange for necessary ambulances and other medical facilities for the affected persons in coordination with various government and non-governmental agencies.
- Arrange for removal of the dead bodies, identifications and proper preservation.
- Prepare list of missing persons and take immediate steps to trace them.
- Communicate the information to other agencies through police control room.
- Keep in constant touch with ECR to ascertain latest status and intimate police personnel with up to date information regarding response actions and further instructions.
- Arrange for relief to policemen handling the emergency situation.

#### **Circle Inspector:**

The Circle Inspector of the concerned area would also rush to the scene of the accident and direct the various operations like maintaining law and order, barricading and diversion of traffic away from the scene of accident. His main functions would include:

- Maintain direct contact with the local police station through the police mobile van.
- Keep monitoring the progress of various mitigative and rescue measures being undertaken.
- Ensure police personnel are given updated information for announcement during the emergency.
- Mobilize government and private buses through RTO for evacuation.
- Ensure that the bus/vehicle drivers are properly instructed regarding areas to be visited and routes to be taken during evacuation.
- Ensure security duty personnel are at their posts and that only authorized personnel/vehicles are allowed to enter the emergency/affected area with proper identity cards.

#### **Police Sub Inspector of nearest Police Station**

The local police station plays an important role during any Industrial disaster in the industrial area around concerned area as well as during any road accident in the district involving a tanker carrying hazardous chemicals.

- Divert traffic away from the scene of accident on major roads. Set up barricades and regulate crowd in affected area.
- Warn and advice people about emergency using vehicle mounted with Public Address system in the affected area.
- Evacuate people and livestock in affected areas using rescue routes identified in advance (depending on wind direction in case of gas leak),
- Provide relief to victims till arrival of rescue team.
- Maintenance of law and order at the scene of emergency and prevention of anti social elements from taking advantage of the situation.
- Ensure law and order and maintain security in evacuated areas.
- Assist in rendering first aid medical help to those in need,
- Ensure police personnel on emergency duty receive proper briefing about possible hazardous effects and are provided with personal protective equipment.

# **Traffic Police:**

Depending on the type of disaster, the traffic police would take control of the traffic movement in the district. During a natural disaster like cyclone or floods the roads may be cut off for a longer period and hence traffic police play a very important role in handling any such emergencies. Their duties would include

- Stop traffic approaching the affected area and advise the crew regarding the impending danger.
- Ensure tankers containing hazardous chemicals are parked in safe places.
- Check for alternate routes and divert the traffic in a controlled manner to prevent congestion in diversions.
- Keep close liaison with other police agencies and assist in crowd control around the affected area.
- Make way for emergency and relief vehicles on priority basis.
- Monitor the condition of the blocked road and resume normal traffic only when the affected area is declared safe.

# Rehabilitation function: Chief executive officer & Project Director(DUDC)

#### Alternate; Executive Officer, Tq. Panchayath & Chief Officer of affected town

The first and the foremost challenge after a relief operation is rehabilitation of victims. The CEO & PD sits in DCR and co-ordinates with officers of line departments and local bodies. Main functions:

• Takes position in DCR and ensure the presence of their officers at sites of operation

- Receives directions of the dy.commissioner and provides him the required feedback about rehabilitation arrangements
- Prepare the list of govt. /pvt. Buildings which may be used as temporary shelters in advance.
- Put up temporary sheds if buildings are not available
- To ensure sanitary operations through local bodies
- To ensure repair and reconstruction of infrastructure in case of damage
- To mobilize local men and materials if required.

#### Factory Inspectorate: Dy. Chief Inspector of Factories

#### Alternate: - Senior Inspector of Factories.

Factory Inspectorate plays an important role during any industrial and transportation disaster in which there is large-scale release of hazardous chemicals. In case of such disaster, the Dy. Chief Inspector of Factories or Sr. Inspector of Factories would position themselves in the ECR and help the District Administration by providing expert advice for minimizing the effect of such a disaster.

#### Main functions:

- Ensure the on-site emergency management plan of the affected industry (in case of an industrial disaster) has been activated and the mitigate measures are taken to safeguard the people present in the premises.
- Visit the site of accident to ensure proper measures are taken to control the situation.
- Speed up help from mutual aid members, if required to contain the emergency.
- Mobilize the technical experts for advice if required.
- Inspect the area along with the tech. Co-coordinators and report to Deputy Commissioner for giving all clear signals.

# **Fire fighting function: District Fire Officer**

#### **Alternate: - Station Fire Officer**

The Divisional fire Officer/Station Officer will place himself in the main Emergency Control entre and maintain continuous contact on VHF with the Station Officer at the site. Depending on the need, the Divisional Fire Officer will place himself at the site and maintain contact with the Deputy Commissioner in the Main Emergency Control Centre. The Station Officer/ Sub-Officer/Asst. Sub-Officer of the fire station closest to the scene of disaster will direct fire-fighting operations at the site and keep the Divisional fire officer/station officer informed of the developments at the site.

# Main functions:

- Initiate rescue and fire fighting operation with available means. Ensure that all fire fighters use proper personnel protective equipment while fighting a fire or controlling gas leak.
- Help the District Administration in evacuation of people from affected zones using escape routes decided in advance depending on the wind direction.
- Continuously evaluate the situation and decide the necessity to call in additional Fire Engines from neighboring taluks/district.
- Mobilize the services of the home guards for firefighting through the police.
- He wills advice the Deputy Commissioner on the extent of evacuation necessary.
- Preserve valuable evidences, which may be useful for investigation later on.
- Ensure availability of water and make arrangement for private water tanker carriers.
- When the emergency is over, carry out joint inspection of affected areas along with site controller and Technical experts to ensure the emergency is under control.
- Send the message of "SAFE" to DC/SP etc to enable him to officially call off the emergency.

# **Civil defence function: District Commandant, (Home Guards)**

# Alternate: - Dy. District Commandant

District Commandant/Dy. Commandant will position themselves in the Emergency Control Room and assist the District Administration in mitigating the emergency. They would be continuous in contact with the field officer/units.

# **Main functions:**

- Assist the Police or Fire personnel in carrying out their duties.
- Carry out rescue and evacuation operation in close association with other emergency agencies.
- Evacuated areas would need to be guarded against looting.

# Public works/highway function: Superintendent Engineer

#### **Alternate: - Executive Engineer**

Depending on type and location of the disaster, the in-charge of the PWD/Highway or Irrigation department representatives would make them available at the ECR and maintain close contact with their engineers who would be at the scene of the disaster.

# Main functions: -

- Help the police to divert traffic away from the scene of accident along the entire major roads.
- Ensure diversion routes are in good condition and traffic does not get jammed.
- Exhibit proper diversion signs conspicuously at suitable places.

Provide the mobile crane/heavy earthmoving equipment for the purpose of salvage operation.

• Provide necessary assistance as required and directed by Deputy Commissioner/Superintendent of Police.

# **Transportation function: Road transport officer (RTO)**

# Alternate: Asst.RTO

The transportation department plays an important role during any type of disaster as it would involve large-scale evacuation of people in the affected area. RTO/ARTO would be based at ECR and assist the District Administration in mitigating the emergency.

# Main functions:

- Deploy required number of buses with drivers to evacuate people to safe shelters.
- Mobilize various earth moving equipment and other heavy machinery from different sources required for rescue operation.
- Provide mobile workshop if required for urgent repairs/breakdown.
- Provide assistance as required and directed by Superintendent of Police/Deputy Commissioner.

# Health function: District Health Officer (DHO)

#### Alternate: Taluk Health Officer.

The DHO/THO would be based in the ECR and assist District Administration in ensuring prompt health care to all affected people through their network in affected areas.

# Main functions:

- On receiving the information about the emergency DHO will mobilize all the available medical & paramedical Staff for handling emergency.
- Rush medical teams from the nearby hospitals to the scene of the disaster or safe shelters nearby.
- Set up first aid centre at the affected area and rescue shelters.
- Mobilize all the available ambulances and assist in shifting the injured/affected persons requiring the additional attention to hospitals.
- Alert all government & private hospitals to meet any emergency and line of treatment to be followed.
- Alert blood banks to maximize their stock.
- Set up temporary emergency wards with medical facilities to receive the affected victims.
- Inform all the doctors/para medicals regarding the nature of emergency as per the message received from the ECR and also inform about the line of treatment to be followed.
- Ensure sufficient stock of drugs and other medical facilities are available.

• Keep in touch with the district Emergency Control Room and Deputy Commissioner and appraise him of the situation and advice him on additional help required from outside agencies.

# Welfare function: Dy. Director, Food and Civil Supply

# Alternate: - Assistant Director, Food and civil Supply

The DD/AD, F&CS, would be based in the Emergency Control Room and assist the

District Administration in running the safe shelters and relief centres set up during the disaster.

# Main functions:

- Will be overall in-charge or Relief and Rehabilitation activities.
- Identify the rehabilitation centre in advance and establish them in shortest possible time.
- Arrange for orderly transportation of population from the emergency zone and adjacent villages in case evacuation has been ordered by Deputy Commissioner.
- Co-ordinate with the other departments connected with relief measures.
- Provide basic amenities such as food, drinking water and sanitation at the rehabilitation centers.
- Distribute food packets at the affected areas to the people, emergency services agencies such as police, fire fighting personnel and others.
- Exercise any other powers to seek any assistance from the local authorities' in achieving this objective.
- Establish contact with the voluntary organizations for assistance.
- To ensure that necessary arrangements are made for the orderly return of all villagers to their respective places once the Deputy Commissioner informs about the termination of the emergency.

# Information function: District Information Officer

# Alternate: - Assistant Information Officer.

The District Information Officer would be based in the Emergency Control Room during

any disaster and assist the district authorities in smooth operation.

# Main functions: -

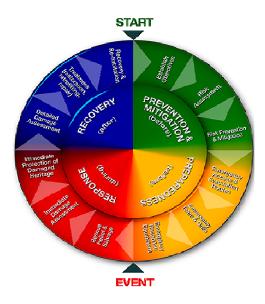
- Upon receiving the information from District Administration, the information officer should co-ordinate with media for giving information regarding emergency.
- Co-ordinate with the affected victims' families for giving information of their dear ones if missing/dead/injured.

# Pollution control function: Dy. Environment Officer

# **Alternate: - Assistant Environment Officer**

The representative of the Pollution Control Board would be based in the Emergency Control Room during any disaster and ensure the environmental damage is kept minimum. Main functions: -

- Mobilize all possible resources at his disposal and keep the laboratory functioning for analysis of pollutants and emissions.
- Rush the team to the affected area for collection of samples and analyze the same.
- Keep the Emergency Control Room informed about the possible effect on human life as well as environment and corrective actions taken to minimize the same.



# **CHAPTER-6**

# **RESPONSE PLAN**

The response plan has been prepared with an aim of reducing to a great extent the response time to any disaster. This in turn will minimize the extent of damage and sufferings to human/animal life and infrastructure considerably. The plan enables all those involved in rescue and relief to know exactly their roles, about available resources, structure etc. and with whom they have to co-ordinate.

Inter departmental co-ordination weekly meetings are planned to reduce field level problems and to impart knowledge on standard operating procedures. Local engineers of PWD PRED, irrigation dept. have been asked to be in red alert to assess the damage and to immediately repair/ make alternate arrangements in their area without waiting for procedural aspects. Logistics arrangements for rescue operation has been put in place, including animal care and management of the deceased.

#### **Relief and Rescue Operation**

Rescue work will be taken up by the local police, home-guards, fire force along with local villagers and volunteers.

In case severe distress due to natural calamities like high flood or earthquake, emergent relief such as temporary shelter, rice, dal, potato, salt, kerosene, matchboxes, toothpaste soap, milk, clothing, blanket, etc., will be arranged from the identified traders and sources.

#### **Immediate response acts**

- Inform the core committee members to swing into action.
- Summon the fire brigade.
- Inform Road Transport Authorities to stop movement of vehicle.
- Mobilize volunteers, youth, sportsmen, social service workers, Ex-servicemen, Medical personal.
- Make shift arrangements for temporary shelters to displaced persons
- Providing water and food to the affected.

#### Synopsis of Response Plan: -

Phase	Activities	Officials involved
During disaster	During disaster Disseminating information 1 <sup>st</sup> Responders.	
	Keeping the control room active round the clock.	CDC
	Arrangement of vehicle and public address system for information dissemination.	Police
	Distributing of duties to the district level officials, field functionaries on need basis.	CDC
	Asking the people in the vulnerable areas to move to the shelters and to move their domesticated animals to shelter places and to co-operate with the volunteers and other officials engaged in similar activities.	Fire services, Police, Revenue, Veterinary Dept.
	Informing the hospitals to be ready to receive the injured persons for immediate medical aid, and	Health Dept.

arrangement of special medical need if required.	
Constituting of mobile health teams to visit shelters.	Health Dept.
Arrangement and deployment of Fire Services, emergency response vehicles, first aid fire fighting personnel.	Fire services
Arrangement and deployment vehicles for evacuation of persons.	RTO
Arrangement and deployment of Home guards for law and order to work in association with Fire services and police.	Commandant Home guards
Arrangement of specialized equipment for mitigation .	RTO Management
Arrangement and deployment of Police for maintaining law and order.	Police
Traffic management and patrolling to the disaster site.	Police
Provision of security at the shelter.	Police
Arrangement for evaluation of water and air pollution due to the disaster.	KSPCB
Management of deceased.	Revenue, Health

#### **Response Plan for different Disasters.**

#### **DROUGHT:**

AEE, PWD	AEE, ZP	Tahasildar	Taluk Medical Officer	AEE, MI	Animal Husbandry & Veterinary Services
To generate employment to the needy victims	To provide drinking water to affected areas	To provide food, drinking water and milk	To co-ordinate with PHCs and provide medical relief and set up medical camps if necessary	To generate employment to the needy victims	To provide fodder and veterinary services for live stock.

#### Task force for Disaster management during Drought.

Koppla, Gangavathi, Kustagi and Yalburga taluk face drinking water problem in case of rainfall deficit. panchayat and municipalities in the district are advised to repair the bore wells and pipelines which are not in good condition. New bore wells are drilled in such areas under Auxillirated drinking water supply scheme through ZP engineering dept. Awareness should be created in the public not to waste the water and bore wells points to dig the new borewells have been identified . Places to open the ghoshalas in holbi head quarters have been identified. If need be the fodder will be procured from Bellary district. Food grains are stored in the KSFC and FCI gowdons. The list of such gowdons in the district and storage capacity has been worked out already by the district administration. Usually the people from Kustagi, Yalaburga Koppal taluk will leave the villages in search of employment at the time of drought. Hence the list of tanks which are to

be desalted, the amount required, number of labors to be employed has been prepared. The Grama Panchayats are advised to get the list of the laborers that usually will go in search of employment.

#### **Drought Monitoring**

Since the District is prone to frequent droughts, emphasis is laid on monitoring the situation during droughts. Identification of drought-prone villages and taluks has been done and contingent plans have been worked out.

The following steps have been taken on a regular basis by the District Administration through Panchayat Offices to combat the menace of drought:

- Digging of bore wells.
- Providing hand pumps and motor pumps wherever required.
- Repair of existing hand pumps and motor pumps.
- Digging of wells.
- De-silting of wells, tank beds.
- Providing pipelines for supply of water.
- Providing water to problems areas through water tankers and other means.
- Providing water storage facilities at all block levels.

Since water contamination and water borne diseases can cause health hazards precautions are taken to ensure that drinking water is properly purified before consumption. The District Health officials and the ZP Department monitor supply of drinking water and ensure that there is no scope for water contamination.

# **PROVIDING FOOD AND FODDER DURING DROUGHT**

Since drought has a cyclic effect there is a drain on resources such as food, water, employment,

etc., as there is inadequate soil moisture there is shortage of food and fodder.

#### The focus during drought would be on the following vital areas:

- Water conservation.
- Supply of essential commodities.
- Employment generation.
- Early warning systems.
- Health care.
- Water supply to remote areas by tankers etc.
- Emphasis on the poorer classes of society.
- Priority to drinking water over irrigation.
- Training to NGO's Volunteers and youth.

The following Action Plan has been formulated by the District Administration to deal with the situation of drought.

Contingency plan prepared in co-ordination with the Water Supply Department, ZP, TP, Municipal Corporations, Irrigation Department and Health Department to ensure availability of adequate quantity of drinking water.

Food: Department of Food and Civil Supplies is in readiness to face any situation of drought and has maintained stock register of availability of food grains.

Health: Department of Health has trained personnel on its rolls to deal with situation of drought and forms an important organ of the Core Committee.

Fodder: An adequate step taken to ensure that fodder for cattle is stored in case of impending drought.

Veterinary Facilities: Veterinary Department has been instructed to store adequate stock of medicines to save lives of cattle and live stock.

#### Supply of Drinking Water During Drought 2018

Government of Karnataka by Order four talukas of Koppal district declared as a drought affected talukas namely Koppal, Gangavati, Kushtagi and Yelburga. Among these Gangavati and Yelburga are declared as severe drought affected talukas of Koppal District and remaining talukas are classified as a partially drought affected those are Koppal and Khustagi.

#### **Rural Water Supply during drought 2018**

in Koppal District among 737 villages 282 villages are identified as drinking water problematic villages. By Preoaring Action Plan of Rs.3.21 crores providing drinking water through tanker to drinking water problematic villages by reoairing and flushing bore wells.

in Koppal district from November 2018 to May 2019 drilled 2472 bore wells among these 1408 are successful and remaining 1064 are failure.

S.No	Taluk	No of Villages	No of Private Bore Wells Hired	Expenditure (In Lakhs)
1	Koppal	17	17	3.31
2	Gangavati	8	10	2.15
3	Karatagi	4	7	1.60
4	Kanakagiri	16	16	4.13
5	Yelburga	21	25	9.81
6	Kukanur	4	4	0.70
7	Kushtagi	63	92	30.98
	Total	133	171	52.68

Details of Private Bore Wells Hired for supply of Rural Drinking Water (As on 27.06.2019)

#### Details of Taluk/Village wise Supply of Drinking Water through Tanker (As on 27.06.2019

S.No	Taluk	Villages water	Name of the Village	Expenditure (In Lakhs)
		supply through		
		Tankers		
1	Koppal	0		0.00
2	Kanakagiri	4	Neeraluti	3.81
3	Gangavati	0		0.00
4	Karatagi	0		0.00

5	Kushtagi	8	Guddada Devlpur,Hanumanal, Ryavanaki, Chandragiri,Kumbalavati, Madikeri,Huliyapur , Chikkamurkatihal	12.42
6	Yelburga	4	Guntamadu,Hunasihal Tanda, N. Jarakunti, Muradi	14.51
7	Kukanur	1	Mangalur	19.77
	Total	17		50.51

# Drought Emergency Supply of Rural Drinking Water During 2018-19, Under Deputy Commissioners P D Account (1<sup>st</sup> Phase Expenditure)

					Expenditure	No of	Works	
S.No	Name of Assembly	Sanctioned Works	Sanctioned Amount	Amount Released		Flushing /Redrilling	Pipe Line/Motor Repair	Completed Works
1	Koppal	116	28.60	21.45	21.79	112	4	116
2	Gangavati	56	29.00	21.75	21.75	41	15	56
3	Kanakagiri	16	29.00	27.56	21.75	0	16	16
4	Khustagi	24	29.00	24.41	24.41	16	8	24
5	Yelburga	18	29.00	25.54	19.97	0	18	18
Total		230	144.60	120.71	107.01	169	61	230

# Drought Emergency Supply of Rural Drinking Water During 2018-19, Under Deputy Commissioners P D Account (2<sup>nd</sup> Phase Expenditure)

					Expenditure	No of	Works		Works
S.No	Name of Assembly	Sanctioned Works	Sanctioned Amount	Amount Released		Flushing /Redrilling	Pipe Line/Motor Repair	Completed Works	under Progress
1	Koppal	52	40.00	30.00	26.10	99	8	46	6
2	Gangavati	66	39.80	29.85	29.56	193	2	66	0
3	Kanakagiri	57	40.00	30.00	29.86	100	9	57	0
4	Khustagi	13	40.00	30.00	29.87	0	13	13	0
5	Yelburga	23	40.00	30.00	17.11	4	19	13	10
	Total	211	199.80	149.85	132.50	396	51	195	16

Drought Emergency Supply of Rural Drinking Water During 2018-19, Under Deputy Commissioners P D Account (3<sup>rd</sup> Phase Expenditure)

					Expenditure	No of	Works		Works
S.No	Name of	Sanctioned	Sanctioned	Amount		Flushing	Pipe	Completed	under
	Assembly	Works	Amount	Released		/Redrilling	Line/Motor	Works	Progress
						, iteating	Repair		
1	Koppal	6	29.00	21.75	0.00	0	6	0	6
2	Yelburga	8	21.70	6.45	0.00	0	8	0	8
3	Kanakagiri	120	40.00	0.00	0.00	100	20	0	120
4	Kushtagi	115	40.00	0.00	0.00	200	0	0	200
	Total	249	130.70	28.20	0.00	300	34	0	334

S.No	Name of Taluk	Sanctioned Works	Sanctioned Amount	Expenditure	Completed Works	Works under Progress
1	Koppal	111	50.00	49.83	111	0
2	Gangavati	73	50.00	49.87	73	0
3	Kushtagi	52	50.00	29.92	52	0
4	Yelburga	28	50.00	29.34	28	0
	Total	264	200.00	158.96	264	0

Drought Emergency Supply of Rural Drinking Water During 2018-19, Under ZP Taskforce (1<sup>st</sup> Phase Expenditure)

# Drought Emergency Supply of Rural Drinking Water During 2018-19, Under ZP Taskforce (2<sup>nd</sup> Phase Expenditure)

S.No	Name of Taluk	Sanctioned Works	Sanctioned Amount	Expenditure	Completed Works	
1	Koppal	56	50.00	24.46	56	
2	Gangavati	71	50.00	49.58	71	
3	Kushtagi	59	50.00	40.12	59	
4	Yelburga	23	50.00	0.00	23	
	Total	209	200.00	114.16	209	

# Drought Emergency Supply of Rural Drinking Water During 2018-19, Under ZP Taskforce (3<sup>rd</sup> Phase Expenditure)

S.No	Name of Taluk	Sanctioned Works	Sanctioned Amount	Expenditure	Completed Works	Works under Progress
1	Koppal	121	55.00	0.00	0	121
2	Gangavati	78	45.00	0.00	0	78
3	Kushtagi	46	50.00	0.00	0	46
4	Yelburga	91	50.00	0.00	0	91
	Total	336	200.00	0.00	0	336

Drought Emergency Supply of Rural Drinking Water During 2018-19,

# Expenditure Under ZP SDRF for Bore well drilling, Pipe line and repair works

S.No	Name of Taluk	Sanctioned Works	Sanctioned Amount	Expenditure	Completed Works	Works under Progress
1	Koppal	68	30.00	29.90	68	0
2	Gangavati	67	29.90	29.81	67	0
3	Kushtagi	67	40.00	39.90	67	0
4	Yelburga	60	30.00	29.84	60	0
	Total	262	129.90	129.45	262	0

# **Urban Water Supply**

S.No	Name of ULB	Grant Released	Sanctioned Works	Sanctioned Amount	Expenditure	Completed Works	Works under Progress
1	Karatagi	35.14	3	35.14	0.00	0	3
2	Yelburga	18.08	4	18.08	13.08	0	4
3	Kukanur	58.86	14	58.86	18.52	9	5
4	Tawaragera	40.72	23	40.72	7.50	0	11
5	Kanakagiri	57.54	7	57.54	11.00	0	6
6	Bhagyanagar	18.38	3	18.38	18.38	3	0
Total		228.72	54	228.72	68.48	12	29

# Expenditure Under SFC for Urban Drnking Water in Koppal District During 2018 up to April

# Expenditure Under SFC for Urban Drnking Water in Koppal District During 2019 up to January

S.No	Name of ULB	Grant Released	Sanctioned Works	Sanctioned Amount	Expenditure	Completed Works	Works under Progress
1	Karatagi	20.00	4	20.00	0.00	0	3
2	Yelburga	15.00	6	15.00	5.00	1	5
3	Kukanur	15.00	4	15.00	0.00	0	4
4	Tawaragera	15.00	1	15.00	0.00	0	1
5	Kanakagiri	15.00	3	15.00	0.00	0	3
6	Bhagyanagar	15.00	6	15.00	11.00	6	0
7	Kushtagi	20.00	5	20.00	1.89	1	4
8	Koppal	25.00	11	25.00	8.75	2	9
9	Gangavati	25.00	17	25.00	0.00	0	17
MlÄÖ	)	165.00	57	165.00	26.64	10	46

# Expenditure Under SFC for Urban Drnking Water in Koppal District During 2019 up to May

S.N o	Name of ULB	Grant Released	Sanctioned Works	Sanction ed Amount	Expendit ure	Completed Works	Works under Progress
1	Karatagi	16.00	3	16.00	0.00	0	0
2	Yelburga	12.00	3	12.00	0.00	0	0
3	Kukanur	12.00	3	12.00	0.00	0	0
4	Tawaragera	12.00	3	12.00	0.00	0	0
5	Kanakagiri	12.00	2	12.00	0.00	0	0
6	Bhagyanagar	12.00	1	12.00	0.00	0	0
7	Kushtagi	16.00	10	16.00	0.00	0	0
8	Koppal	20.00	13	20.00	0.00	0	0
9	Gangavati	20.00	0	0.00	0.00	0	0
Total		132.00	38.00	112.00	0.00	0	0

# Expenditure Under Deputy Commissioner PD Account for Urban Drinking Water in Koppal District During 2018-19

S.No	Name of ULB	No of Total Wards	No of Wards Water Supply through Tanker	Released Amount (In Lakhs)	Expenditure(In Lakhs)
1	Karatagi	23	0	0.00	0.00
2	Yelburga	15	4	0.00	0.00
3	Kukanur	19	4	3.00	0.00
4	Tawaragera	18	8	10.00	8.00
5	Kanakagiri	17	0	2.00	0.78
6	Bhagyanagar	19	4	0.00	0.00

7	Kushtagi	23	12	2.00	2.00
8	Koppal	31	0	0.00	0.00
9	Gangavati	35	0	0.00	0.00
Total		200	32	17.00	10.78

#### **Employment Generation during drought 2019**

# Mahatma Gandhi National Rural Employment Guarenty Act Progress from 01.04.2019 to 12.10.2019 (MGNREGA)

	Name of the	Generation of Man-days				
S.No	Taluka	Annual Target	Cummulative	Percent of		
			Achievement	Achievement		
1	Gangavati	15.14	14.21	94%		
2	Koppal	12.25	5.36	44%		
3	Kushtagi	15.37	14.12	92%		
4	Yelburga	8.24	3.08	37%		
Т	otal	51.00	36.76	72\$		

#### Maintenance of Cattles and Fodder During Drought-2018

Agriculture Department is entrusted with a task of developing drought resistant verities, alternate cropping pattern, fodder reserves (dry) and information dissemination mechanism. Urban local bodies and Gram panchayaths are equipped with assured drinking water supply systems. Food go-downs have been identified at reachable distances. Medical and Veterinary officers are included in mitigation teams to deal with issues related to health and nutrition. List of vehicles to be used for supply of food, fodder and medicines is kept prepared. Auxiliary nursing matrons are entrusted with a task of preparing a list of vulnerable groups like women, children, senior citizen, infants and nursing mothers.

		K	oppal	Taluka	wise Fodde	er Availabil	ity as on 12–0	07-2019 ( ಮೆಟನ್ ಗಳಲ್ಲಿ)				
ಕ್ರ.ಸಂ	ತಾಲ್ಲೂಕು	ಜಾನ	<b>ಬವಾರುಗ</b> ಳ	ಸಂಖ್ಯೆ	ಮೇವಿನ ಲಭ್ಯತೆ	ವಾರದ ಮೇವಿನ ಬೇಡಿಕೆ @ 8	ಲಭ್ಯತೆ ಇರುವ ಮೇವು ಎಷ್ಟು ವಾರಗಳವರೆಗೆ	ಷರಾ				
		ದನ	ಎಮ್ಮೆ	ಒಟ್ಟು		ಕೆಜಿ/ದಿನ/ರಾಸು	ಸಾಕಾಗುತ್ತದೆ.					
1	ಕೊಪ್ಪಳ	59231	13413	72644	53247.79	4068.064	14	ಲಬ್ಯವಿರುವ ಮೇವು ಒಟ್ಟು 12 ವಾರಗಳಿಗೆ ಮಾತ್ರ ಸಾಕಾಗುತ್ತ ಜಿಲ್ಲೆಯಲ್ಲಿ 2018–19 ನೇ ಸಾಲಿನ ಹಿಗಾರು ಹಂಗಾಮಿನಲ್ಲಿ				
2	ಗಂಗಾವತಿ	60032	29232	89264	121912.7	4998.784	24	ಉಳಿದ ಮತ್ತು ಬೇಸಿಗೆ ಹಂಗಾಮಿನಲ್ಲಿ ಬಿತ್ತನೆಯಾದ ನೀರಾಣ ಪ್ರದೇಶದ ಭತ್ತ ಮತ್ತಿತರೆ ಬೆಳೆಗಳಿಂದ NIANP ಮಾರ್ಗಸ. ಹಾಗೂ ಸೂತ್ರಗಳನ್ನಯ ಮತ್ತು ಜಿಲ್ಲೆಯಲ್ಲಿ ಕಳೆದ 15 ದಿನಗಳ				
3	ಕುಷ್ಠಗಿ	51778	9515	61293	14872.812	3432.408	5	ಬಂದ ಮಳೆಯಿಂದ ಜಿಲ್ಲೆಯ ಗೋಮಾಳ/ಖಾಲಿ,ಖರಾಬು/ಅಂ ಭೂಮಿಯಲ್ಲಿ ಲಭ್ಯವಾಗ§ರಿದಾದ ಅಂದಾಜು ಮೇವನ್ನು ಗಣ				
4	ಯಲಬುರ್ಗ	50902	8987	59889	12605.566	3353.784	4	ತೆಗೆದುಕೊಂಡಿದೆ				
	ಒಟ್ಟು	221943	61147	283090	202638.87	15853.04	12					

ಷರಾ : ಜಿಲ್ಲೆಯಲ್ಲಿ ಒಟ್ಟು 7 ಗೋಶಾಲೆಗಳು ಮತ್ತು 7 ಮೇವು ನಿಧಿಗಳನ್ನು ನಿರ್ವಹಿಸಲಾಗುತ್ತಿದೆ.

#### **Parihara: (Input Subsidy)**

Drought declaration signifies the beginning of Government response to conditions representing a drought conditions. The drought is declared using Taluk as a unit guided by objective parameters

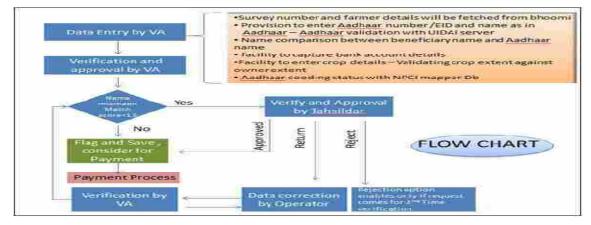
prescribed by the Drought Manual of Government of India that is in vogue during that period. The relief operation such as supple of drinking water, supply and transportation of fodder and employment generation, etc, are mounted in drought declared taluks using funds available in State Disaster Response Fund (SDRF) and State Fund. In most of the cases the drought is wide spread and is beyond the coping capacity of the State and memorandum is submitted to the Government of India seeking financial assistance from National Disaster Response Fund (NDRF). The Department of Agriculture, Cooperation and Farmers Welfare, Government of India will constitute and dispatch inter-ministerial central team (IMCT) to the drought affected area. The IMCT will visit drought affected areas in the State and interact with district and local officers, farmers and other concerned stakeholders. The IMCT will submit a report to subcommittee of National Executive Committee (NEC) after studying the report will place its recommendation before High Level Committee (HLC) chaired by Union Home Minister. HLC approves

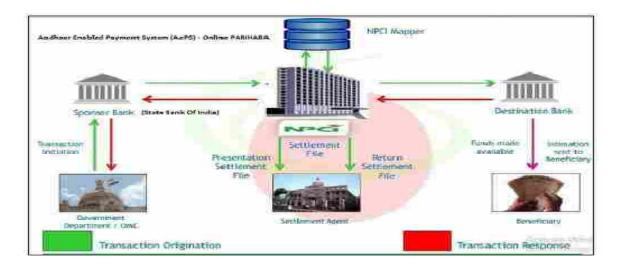


the quantum of financial assistance (as per the NDRF norms) to be released to the State.

#### **Parihara Work flow**

The work flow is depicted in the below given flowchart. Data entry of land details, extent of damage, Aadhar number, bank details, etc, is made by the data entry operator. This is verified by Village Accountant and approved. In case there is mismatch between name in RTC and Name in Aadhar database, the record is escalated to Tashildar to verify and approve. Once approved, XML file is created and digitally singed by respective Deputy Commissioners and uploaded for payment.





#### Salient features of Parihara Application

- The Parihara application fetches land details (survey no, extent, etc,), owner details from Bhoomi database. Bhoomi Database forms the backbone of this application.
- Crop details and extent of damage is validated using Bhoomi database, which ensures payment to intent beneficiaries, i.e., to farmers who really owns the land. This feature ill eliminate unintended beneficiaries.
- Aadhaar number /Enrolment ID and name as in Aadhaar of the affected farmers after taking due consent from the farmers. Yes or no Aadhaar validation with UIDAI server to ensure Aadhaar no entered is a valid Aadhaar no. Aadhaar seeding status is checked with NPCI mapped Database, which enables intimating the beneficiaries about the linking status and taking remedial measures. This shall facilitate Adhaar Enabled Payment System (AEPS), most secured, transparent financial instrument for disbursing input subsidy.
- Beneficiary can check the payment status by keying his/her Aadhaar No or user ID (unique ID assigned to farmers during data entry). Details such as input subsidy amount paid, to which bank, account no, extent of crop loss and name of the crop will be displayed on keying in above numbers. This enables eligible small and marginal farmers to approach the designated authorities with a sense of entitlement in case of non-receipt of input subsidy.

#### Input Subsidy Disbursement before the advent of DBT

The input subsidy amount released from NDRF to the State isreleased to the PD account of respective Deputy Commissioners as per the demand in the Memorandum. The Deputy Commissioners in-turn release the amount to drought affected taluk based as per the joint survey report. Tashildar in coordination with Revenue Inspector and Village account identifiesbeneficiaries and issues cheque or transfers money through RTGS/NEFT. This system was a protracted delivery process which invariably led to in ordinate in providing timely input subsidy. There were instances in the past where input subsidy disbursement process took almost a year and a half. The major drawback of the systems is as follows:

- The process used to consume significant time and administrative resources as entire Revenue machinery in the taluk and district level are engaged in damage assessment and identification of beneficiaries, which used to impair other development works in the districts
- Process was riddled with high amount of discretion at every stage leading to inequitably and inefficiently distribution, invariably leading to input subsidy amount given to unintended beneficiaries.
- Rent seeking from beneficiaries, illegitimate commission seeking by cutting edge level officers who had power to stop, deny or delay the benefit to be passed.
- Pressure on local banks leading disrupting the day to day operations particularly rural cooperative bank which lacked wherewithal in terms of technology and manpower to scale up the operations during disbursement.

#### **Evolution of Parihara Application**

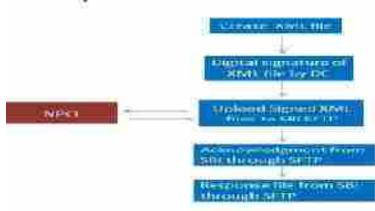
The above stated drawbacks were deliberated extensively with all stakeholders and decision was taken to direct transfer of input subsidy to beneficiaries' account which will eliminate intermediaries, weed out fictitious beneficiaries and discretion of government officials to stop, deny or delay the benefit to be passed.

What started as excel sheet format for data collection for crop damage evolved into a most sophisticated web application "Parihara" to ensure a better and timely delivery of financial assistance in terms of input subsidy directly into the accounts of beneficiaries thereby plugging leakages and enhancing financial inclusion.

Parihara is an innovative web based application was developed in-house by Revenue Department (Bhoomi Monitoring Cell and Disaster Management), Govt. of Karnataka to enable direct benefit transfer (DBT) through Aadhaar Enabled Payment Service, i.e., transferring of input subsidy amount directly into the Aadhaar seeded bank accounts of intended beneficiaries.

#### **Payment Process in Parihara**

Robust mechanism has been developed to ensure transparency and integrity in payment process and flow chart is as follows:





#### **Payment Sample Report**

					414.17	anad 3donv.#	Advance Party				
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http://landrecords.karnataka.gov.in/PariharaPayment/

#### Advantages of Aadhar enabled payment through Parihara

- Electronic transfer of fund directly to farmers account from the State which minimizes intermediaries and will ensure timely payment.
- Accurate targeting and curbing pilferage by validating entries at multiple levels. Thus Parihara prevents malfeasance with input subsidy, which has been an biggest challenge for the governments.
- Robust MIS to monitor the progress and to provide quick and convenient method for grievance redressal.
- This is a onetime data entry, hence burden on district administration will reduce considerably for future disbursement of input subsidy. Thus there will not be disruption on developmental works.
- Pressure on banks, especially cooperative banks will reduce.

#### The Parihara has had positive spin-offs as well and these are as follows:

- Robust farmer-level data generated can be useful for planning purposes by all concerned agencies.
- Updation of crop details in the RTCs, which will facilitate accurate yield estimation.
- Success of Parihara has had cascading effect on other State Government schemes which involves disbursement of subsides.

#### Bhoomi Parihara

### Input subsidy provided to formers diring drought through Parihara

#### 1. Khariff Drought 2018-19

During Khariff 2018-19 Gangavati (Included with new talukas namely Karatagi and Kanakagiri) and Yelburga (Included Kukanoor Taluka) talukas declared as drought affected talukas in Koppal District and input-subsidy provided to formers due to croploss. The data entered in Parihara is as follows

		Partial	VA Pending	VA Verified And	Operator Deleted	Total
SlNo	Taluk Name	Entries	Entries	Approved Entries	Entries	Entries
1	Yelburga	6	9	27461	1	30886
2	Gangavathi	2338	1519	14403	32	20733
3	Karatagi	3	0	57	0	63
	koppal TOTAL	2347	1528	41921	33	51682

Khriff Drought 2018-19 Data Entry Progress Report as on 20.11.2019

#### Khriff Drought 2018-19 Total Entry and Payment Details as on 04.07.2019

Total entries	Total Beneficiaries	Total payment
37601	27890	24.34 Crores

#### 2. Rabi Drought 2018-19

During Rabi 2018-19 Koppal, Kushtagi, Gangavati and Yelburga declared as drought affected talukas in Koppal District and input-subsidy provided to formers due to croploss. The data entered in Parihara is as follows

SINo	Taluk Name	Partial Entries	VA Pending Entries	VA Verified And Approved Entries	Operator Deleted Entries	Total Entries
1	Kanakagiri	686	1	5756	247	6690
2	Kushtagi	33	2	21007	5112	26154
3	Kukanoor	242	10	22518	1260	24030
4	Karatagi	0	0	269	23	292
5	Koppal	60	6	22228	6061	28355
6	Yelburga	2	8	16338	1318	17666
	Koppal	1023	27	88116	14021	103187

Rabi Drought 2018-19 Rabi Data Entry Progress report as on 20.11.2019

## Rabi Drought 2018-19 Crop loss Extent Covered Progress report as on 18.11.2019

S.No	Taluk	Memorandum	Parihara	Parihara	Parihara	Memorandum	Parihara	Percentage
	Name	Rainfed	Rainfed	Irrigated	Perrinial	Total Crop	Total	of
		Area(Ha)	Area(Ha)	Area(Ha)	Area(Ha)	Loss	Crop	Completion
						Area(Ha)	Loss	
							Area(Ha)	
1	Koppal	22460	21822	228	113	22460	22164	98.68
2	Kushtagi	31104	22474	94	13	31104	22582	72.6
3	Yelburga	54944	17694	115	14	54944	17824	75.87
4	Kukanoor	0	23813	46	4	0	23863	13.01
5	Kanakagiri	0	6451	461	4	0	6917	
6	Karatagi	0	298	0	0	13100	298	55.08
7	Gangavati	13100	0	0	0	0	0	
	Total	121608	92552	944	148	121608	93648	77.01

Phase	Total Beneficiaries	Payment in 75%	Date as on
Phase-I	30198	214471345	09.10.2019
Phase-II	4139	56515906	16.10.2019
Phase-III	9528	26035486	23.10.2019
Phase-IV	2726	*122782186	05.11.2019
Total	46591	419804923	-

Rabi Drought 2018-19 Total Payment Details as on 05.11.2019

#### FLOOD:

Floods caused extensive damage to human, animal and plant life. Flood result in rendering many people homeless leading to devastation and total chaos to lack of communication and means of transportation.

#### **Preventive steps:**

Certain advance measures are taken to prevent extensive damages caused by floods.

- Embankments
- Flood ways and diversions of rivers.
- Protection of river banks.
- Community-cum-shelter buildings.

#### Emergency measures to be taken

It is imperative that rescue and evaluation operations are taken up by the district administration without any loss of time. People living in low-lying areas are forewarned to evacuate the place and are shifted to a safe environment. Relief centers are to be set up to provide adequate food, clothing, shelter and water to the persons shifted. For shifting people and animals rafts and boats are to be kept ready and services of ex-service men and sports persons who are good swimmers are employed for relief measures.

#### Facilities available in case of floods

- 1. Wireless communication with revenue authorities.
- 2. Motorized Boat of 12 members' capacity available at Munirabad
- 3. Police Wireless system, Fax, Telephone Facilities.
- 4. Tipper and Lorries are available in the office of the Executive Engineers located at Munirabad, Gangavathik, Kustagi and Koppal.
- 5. Inspection Bunglows, School and College Buildings are mainly available for shifting the affected peoples at Munirabad, Gangavathi, Kampli, and Kustagi.

#### Arrangements during and after floods:

• Organizing rescue operations.

- Relief measures by non-official and voluntary organization may be enlisted as for as possible.
- Organize relief camps.
- Provision of basic amenities like drinking water, sanitation and public health care and arrangements of cooked food in the relief camps.
- Organizing enough relief parties to the rescue of the marooned people within a reasonable time limit.
- Establish alternate communication links to have effective communication with marooned areas.
- Organizing controlled kitchens to supply foods initially at least for 3 days.
- Organizing cattle camps, if necessary and provide veterinary care, fodder and cattle feed to the affected animals.
- Grant of emergency relief to all the affected people.
- Submission of daily reports and dissemination correct information through mass media to avoid rumors.
- Rehabilitation of homeless.
- Commencement of agricultural activities desolation, resowing.
- Repairs and reconstructions of infrastructural facilities such as roads, embankments, resettlement of flood prone areas.
- Health measures.
- Relief for economic reconstruction.

#### Functions of chief emergency coordinator (CEC) in case of floods

The following functions are delineated for the Chief Emergency Coordinator. He will take various emergency decisions by convening the immediate meeting/conferencing of Emergency Planning, Group together they are responsible for the following.

- 1) Formulation and implementation of the plan.
- 2) Guidance/decision on matters of basic policy.
- 3) Activation of the emergency control center and convening the emergency meeting.
- 4) Declaring the emergency zones with the help of technical personnel and experts.
- 5) Control on emergency operations.
- 6) Review of operational preparedness of emergency machinery.
- 7) Holding periodic mock/training exercises to ensure optimum preparedness at operational level.
- 8) Development and updating hazard scenarios and cascading effects from time to time.
- 9) Mobilizing organizations, financial and human resources for the plan.
- 10) Liaison with external/Govt. agencies and assessment of whether any public assistance is required.
- **11**) Furnishing information on the incident to District, State and National Level authorities and if needed competent bodies may be called for assistance.
- 12) Liaison with press/media, to report the emergency.
- 13) Declaring rehabilitation centers in case of evacuation if called for

- 14) Monitoring post emergency situation in terms of health care, first aid, habilitation etc.,
- **15**) Declare all clear, once everything is normal.

#### The emergency control centre consists of the following;

- 1) At least two external telephones (one incoming and the others one out going fitted with simultaneous/selective boards casting systems) with a PABX.
- 2) Wireless/Radio equipment (VHF/mobile).
- **3)** Inundation/vulnerability maps indicating risk zones, assembly points, alternate evacuation routes, safe areas, rehabilitation centers etc.,
- 4) Telephone directory of emergency response system.
- 5) List of all emergency equipment and personnel for evacuation, personnel protection, medical aid etc., under the plan as well as with Government agencies in the district.
- 6) List of ambulances, base medical facilities, hospitals, rehabilitation centers etc.,
- 7) Reference books/chemical dossiers.
- 8) Copies of Disaster Management Plan.

#### Input subsidy provided to formers during Flood through Parihara

During August 2019 kopapal and Gangavati declared as flood affected talukas in Koppal District and provided input subsidy to formers for croploss due to flood

#### 1. Khariff Flood August 2019-20

#### Khariff Flood 2019-20 Croploss Data Entry Progress Report as on 20.11.2019

	Koppal Khariff Flood 2019-20 Parihara Data Entry as on 18.11.2019							
S.No	Taluk Name	Partial Entries	VA Pending Entries	VA Verified And Approved Entries	Operator Deleted Entries	Total Entries		
1	Gangavati	0	0	95	33	128		
2	Karatagi	9	0	77	14	100		
3	Koppal	0	0	26	11	37		
	Koppal Total	9	0	198	58	265		

Khariff Flood August 2019-20 Croploss Extent Covered as on 20.11.2019

S.No	Taluk Name	Memorandum Total Crop Loss Area(Ha)	Parihara Total Crop Loss Area(Ha)	Percentage of Completion
1	Koppal	17.29	10	57.84
2	Karatagi	119.8	75	
3	Gangavti	119.0	15	62.60
	Total	137.09	85	62.00

#### Khriff August Flood 2019-20 Payment Details Total as on 18.11.2019

Total Beneficiaries	Total Payment	Date as on
177	1774648	18.11.2019

S.No	Taluka	Fully damaged houses (75 above)	Severely damaged houses (75% to 26%)	Partially damaged houses (25%-15%)	Total
		"A" Category	"B" Category	"C" Category	
Gangavati	1	0	0	0	0
Koppal		0	0	3	3
Total		0	0	3	3

#### **Details of House Damaged during August-2019 Flood**

### Payment details of House Damage and drinking water during August-2019 Flood

Paid Amount by PD Account	Amount	Total Paid
"C" Category Houses	25,000	1,00,000
Total 150 Houses for Utensils	10000	1500000
Amount release by RGRHCL (2Houses)	25,000	50,000
20 Lakhs for drinking water works action plan approved	2000000	00.00
Grand Total		1650000

#### Flood September & October 2019

During September and October 2019 Flood Gangavati declared as flood affected talukas in the month of September. The losses occoured in Gangavati taluka is as follows

**Croploss during Flood September and October 20119** 

S.No	Nsme of Taluka	Agriculture croploss	Horticulture croploss
1	Koppal	27.04	280
2	Gangavati		0.00
3	Karatagi	32.05	0.00
4	Kanakagiri		17.00
32.055	Kushtagi	20.76	18.90
6	Yelburga	0.00	56.80
7	Kukanoor	0.00	215
	Total	79.85	587.70

#### House damage during Flood September and October 20119

S.No	Name of Taluka Total Houses damaged		Payment
1	Koppal	192	
2	Gangavati	81	
3	Khustagi	477	All Houses paid as per SDRF
4	Kanakagiri	101	and NDRF norms as on
5	Karatagi	22	21.11.2019
6	Kukanoor	169	
7	Yelburga	336	
	Total	1378	

#### Human Loss during Flood September and October 20119

S.No	Duration	Taluka	No of Human	Payment in	Note
			Death	Lakhs	
1	September	Koppal	3	15.00	House damage
2	October	Kushtagi	1	5.00	River
3	October	Karatagi	1	5.00	House damage
Total			5	25.00	

#### Animal loss during Flood September and October 20119

S.No	Duration	Taluka	Animal Death	Payment in Lakhs
2	October	Kukanoor	6 (Goats)	0.18

#### Infrastructure damage

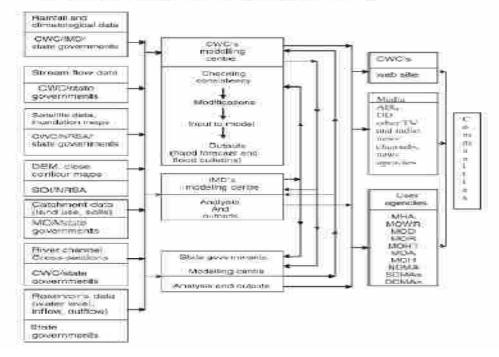
#### Roads and Culverts damages during Flood September and October 2019

S,No	Name of Taluka	CD Repair	Road Repair	Kilometer	Amount
1	Gangavati	-	2	2.20	8.00
2	Yelburga	-	-	3.50	7.50
3	Kushtagi	6	11	32.2	178.00
4	Koppal	1	8	20.0	48.00
Total		7	21	57.9	241.50

#### Koppal Electrical Infrastructure damage due to Flood Setember and October 2019

S.No	Name of	Poles Transformers			Lines	Total		
	Taluka	No of	As per	No of	As per	Lines	As per	Estimated
		Poles	SDRF	Transformers	SDRF	KMS	SDRF	Cost
1	Gangavati	19	0.76	20	20.00	0.00	0.00	20.76
2	Kanakagiri	0	0.00	5	5.00	0.00	0.00	5.00
3	Karatagi	20	0.80	26	26.00	0.00	0.00	26.80
4	Kushtagi	51	2.04	36	36.00	1.00	0.50	38.54
	Total	90	3.60	87	87.00	1.00	0.50	91.10

#### Flowchart for Flood Forecasting and Early Warning



#### **Fire Accidents:**

The major portion of Koppal district is covered with forest which is susceptible to a fire hazard during summer and has a potential to inflict effects which are devastating. In addition, there are mines and two major hazardous industries in the district which are prone to fire accidents.

# CHAPTER-7

# **RECOVERY AND RECONSTRUCTION PLAN**

The biggest challenge thrown to the district administration after any disaster is recovery and rehabilitation. This has an array of activities like assessment of damage, construction of houses, provision for food, clothe, fodder, medical care, preventing the spread of contagious diseases, repair of damaged roads, bridges, culverts, dams, schools, hospitals, restoration of communication links, psycho-social counseling of survivors and economic support from the govt. , NGO'<sub>S</sub> etc. District level functionaries have been identified to carry out these tasks in a rapid manner and their exact roles are defined.

Synopsis of recovery and rehabilitation: -

Post Disaster Activities	Officials involved
Assessment of damages and preparation of	CDC, Revenue, Management, KSPCB
e i i	CDC, Revenue, Management, KSI CD
comprehensive damage report.	
FIRE the disaster, the damages and the death cases.	Police
Maintenance of Law and Order.	Police
Emergency cleaning of debris to enable	Management, Fire Service, Police
reconnaissance.	
Deployment of earth moving vehicles, cranes.	RTO
Temporary supply of food and drinking water and	Corporation, Health, Revenue
medicines to the shelter.	
Arrangement of shelter for animals and other	Veterinary
requirements.	
Providing of temporary lighting facilities to the shelters	KPTCL
and the disaster area.	
Deployment of Home guards and constables to	Police, Dy. Commandant, Home guards
maintain law and order.	
Encouraging NGOs to carry restoration and	Revenue
reconstruction works.	
Supervising all the activities	CDC
Collection of progress reports and furnishing report to	CDC
the Government.	
	•

#### **Damage Evaluation:**

Damage to public, Private properties, crops and other vital infrastructures /installations are assessed by the respective department officials at taluka level, is compiled by the tahsildar, scrutinized by the assistant commissioner of the area. DDMA priorities the relief and rehabilitation works to be taken up immediately by keeping in view of availability of resources.

Damage	Evaluating Authority
Human Lives and Injuries	THO/MO
	Asst.director, animal husbandry &
	Veterinary services
	Tahsildar & AEE, PWD.
Loss of Animals and Livestock	THO/MO
	Asst.director, animal husbandry &
	Veterinary services
	Tahsildar & AEE, PWD.
Damages to dwelling houses, public	AEE-PWD, ZP, DUDC&irrigation dept.

buildings	
Crops	ADA, SADH, AD sericulture
Power lines	AEE-KPTCL, CHESCOM
Communication lines	BSNL
Railway lines	Railway engg. Dept.

#### Assessment of crop damage:

District Agriculture Officer such as Joint Director or Deputy Director or Assistant Director will have to undertake immediate survey of the damages as outlined below;

- a. Area covered under different crops.
- b. Approximate extent of crop damage
- c. Soil reclamation requirements.
- d. Cropping pattern, Rabi or Khariff.
- e. Requirements of seeds, seedlings, fertilizers, pesticides, etc., to be assessed.

f. It is to be examined if seeds/seedlings can be supplied to the affected cultivators at subsidized rates.

g. Availability of seeds/seedlings etc. to be assessed and requirement of of pump sets to be evaluated.

h. Assessment of need, availability and additional requirement of funds.

Municipal authorities, Gram Panchayath, Town Panchayath Officials were asked to keep an eye view of buildings and to take precaution care of such weak buildings, to keep up the bad drainage works repaired and to identify the risk oriented infrastructure. All the PWD, PRED officers were asked to be in the red alert.

#### **Rehabilitation of earthquake victims**

The first and foremost requirement consequent upon the earthquake would be an alternate shelter that is capable of withstanding the next tremor. District Administration has taken steps along with the public works department to ensure that any new constructions that are taken up are capable of withstanding quakes according to requirement. Wherever possible old and dilapidated buildings are subjected to inspection by the Public Works Department and necessary reinforcements provided. Road and Rail network to be kept watch to ensure that people do not panic and desert their dwellings.

Control rooms with wireless, transportation and adequate food supplies to be set up at places affected by tremors to keep in constant touch with the District Administration.

First Aid and Medical facilities to be provided on war footing. Services of Jawans, NCC cadets, Scouts and Guides and other voluntary organization like Lions club, Rotarians to be sought.

#### Storage of food

All the Gram Panchayat offices are being used as storage points when need arises. Secretaries of Gram Panchayats and Asst. Directors and Deputy Directors are the contact persons. Adequate quantity rice/Johor has been kept for distribution to the victims in the god owns. These locations could also be used as storage points for medicines, blankets etc.

#### Supply of Fodder

Fodder of at least 1 kg/animal per day up to maximum of 3 days will be stocked and provided. The Revenue and Veterinary officers will be in charge

#### **Post Disaster Measures**

- 1) Damage assessment by the respective officers.
- 2) Immediate restoration of infrastructure facilities.
- 3) It is to be examined if labor intensive works are required be undertaken to provide
- labor in the affected pockets.
- 4) Disposal of carcasses to be immediately taken up to prevent epidemics by the
- Deputy Director/AD of Veterinary Department.
- 5) DHO will take immediate steps for disinfections of drinking water sources.
- 6) Supplying potable water will be taken up by the Local Bodies.

#### Rehabilitation.

House damage in the wake of major disaster in the rural areas presents a serious problem. As these houses are generally mud built with thatched roof, the worst sufferers are

the economically backward people who normally reside in vulnerable prone areas of these villages. Rehabilitations schemes are undertaken to provide housing to as many people as possible after a devastating disasters. Such houses are either to be located on the land allotted by the government or in their own safe land.

• Taluk Panchayat Officer and Engineers could visit the sites suitable for housing purposes in a village during normal times and if the people living in vulnerable prone areas are willing to shift to new sites. They can obtain their willingness in writing and furnish such lists to the AC/DC.

• The house shall be built according to the requirement of beneficiaries and their pattern of living subject to financial limitation. The people must involve themselves in the housing programme.

• For this purpose, facilities available under Ashraya, Indira Awaas Yojana schemes etc., should be availed of.

#### STANDARD OPERATING PROCEDURES AND CHECKLISTS: -

Information team is kept on high alert in Deputy Commissioner's office to assist all around 24 hours. Search and rescue teams, Emergency Health Management Team, Relief Team (food, feed, fodder and civil supplies), transportation management Team, etc., have been formed and headed by the efficient officers as per the evaluation of situation. Nodal Officers have been authorized to release the funds to the victims at their level only, to save time, assess the needy and to overcome the situation. This process has given courage and leadership to the officers to face the situation at their work spot only. Periodical meetings to be held to assess the situation and to keep on high alert. This has also been clarified to the nodal officers to bring it to the knowledge of DDMA, the planned rescue operations they have conducted and to mitigate effectively.Media and information officers were in touch with the DDMA to highlight the various information from public to DDMA and from national and international organizations, plans were also sought to assess the situation.

# CHAPTER-8 STANDARD OPERATING PROCERES (SOPs)

In order to effectively respond to a disaster, it is imperative to have a clear definition of roles & responsibilities as well as well defined operating procedures for all the organizations & officers involved. Such Standard Operating Procedures (SOPs) should be well understood and promptly followed to ensure effective execution of disaster management activities.

## **Functions of Assistant Commissioner**

- 1. The Assistant Commissioner (AC) will be the overall in charge of Rescue shelter/Rallying post and parking yards.
- **2.** The AC will ensure adequate food and clothing in co-ordination with Dy. Di- rector, Food and Civil Supplies, Voluntary Organizations, Individual Persons as deemed necessary in his option.
- **3.** The AC will also ensure proper medical aid (first aid as well as shifting of affected persons to hospitals, etc) in co-ordination with District Health Officer and District Drug Controller.
- The AC will ensure adequate security and safety in co-ordination with SP (Law & Order), Koppal and Dy. SP, Koppal as the case may be.

In addition t o these responsibilities, t h e AC will assist the CEC in all other matters as the case may be.

#### **Functions of Revenue Authorities**

- 1. Activating of various NGOs/Voluntary Organizations for necessary materials.
- 2. Providing adequate compensation to loss of life and property.
- **3.** Declaration of all clear signals.

## **Functions of Tahsildars**

- 1. He will look after all the facilities required at rescue shelter/rallying post like food, clothing, medical aid, water, electricity, sanitation and other basic necessities in co-ordination with respective Government Agencies, as well as voluntary organizations.
- 2. He will manage and arrange for any other requirements on need basic at that point of time in co-ordination with respective government authorities.
- 3. He will alert all his sub ordinates and utilize their services to manage the rescue shelter/rallying post.
- 4. His actions will be in concurrence from AC/DC.

#### **Functions of Police Services**

The main function of police authorities are,

- To maintain law and order
- Regular patrolling of affected areas

- Establishes rescue/safe routes in advance for timely response
- Cordoning off the area
- Control of traffic
- Shifting of all vehicles to the parking yards
- To render assistance in controlling and fighting disasters, salvage operations, rendering first aid and medical help
- Shifting of the affected to rallying posts/rescue shelters
- Another important function would be identification of the deceased, informing their relative, removal and disposal of dead bodies
- Finally, preparing the list of missing persons and take steps to trace them

The police authorities will also work with NGOs and other service organizations when needed.

# Functions of Circle Inspector (Law and Order) For city limits

- 1. The office will be overall in charge of the functions of Police Department in case of offsite emergency. He will receive the communication and instructions from CEC from time to time.
- 2. On receiving the information about the emergency from CEC, the officer will rush to the incident spot and oversee law and order, organize for additional requirement of men and Home Guards if required.
- 3. Receive information from the site in charge and divisional fire officer or his deputy available at site for appropriate and necessary rescue operation.
- 4. Arrange for necessary transportation of vehicles in co-ordination with RTO and in charge of parking yard for evacuation of people as well as critical cases.
- 5. Ensure that adequate numbers of vehicle are provided, fitted with public ad- dress system and wireless to the convoy team.
- 6. Arrange for necessary ambulance/medical facilities in co-ordination with District Health Officer/Deputy Director, Animal Husbandry for evacuation of people and livestock respectively.
- 7. In confirmation with CEC, arrange for removal of dead bodies (if any) and will pass on the information to the relatives of the decease and will ensure disposal of dead bodies after conducting postmortem in coordination with DHO.
- 8. Arrange for maintaining law and order at the site of emergency, rescue shelter parking yards, main roads leading to emergency site, etc., pass on the information to the CEC about actions on various fields.

# **Functions of Industry Inspector**

- 1. The officer will receive information from the SP or in charge of factory and immediately rush to the site along with maximum possible personnel. He shall help fire-fighting personnel in rescue operations.
- 2. In view of close proximity of police station to the industrial area, take immediate control of the site and rescue operation in co-ordination with site in charge.

- 3. Alert all the subordinate officers coming under his jurisdiction and ensure their availability at the site of emergency to maintain Law & Order, traffic, rescue, salvaging etc., till such time the full emergency operation comes into action.
- 4. Ensure that the information is passed on to the superior officers and necessary instructions are received and adhered to.
- 5. Ensure that all the anti social elements are identified and rounded off if required.

### **Functions of Police Inspector**

- 1. The officer will receive information from SP, Koppal.
- 2. He will immediately rush to the site of incident and conduct on the spot inspection. Obtain first hand information.
- 3. Ensure that information is passed on to the superior officers and necessary instruction are received and adhered to.
- 4. Convey the message on the extent of leakage, extent of area affected, the ground situation, the scenario prevailing in and around the water works.
- 5. Ensure that, he himself and his personnel are equipped with necessary personal protective equipment. The recommended PPE are cartridge type respirators for short team exposure and the pressurized airline respirators for long term exposure.
- 6. Take immediate steps to inform the traffic police.
- 7. Alert all the sub ordinate officers and ensure their availability at the site of emergency to maintain law and order, traffic, rescue, salvaging, etc. Till such time, the full emergency operation comes into action.
- 8. Ensure that all the anti-social elements are identified and rounded up, if required

#### **Function of Inspector (Traffic)**

- 1. The SP, Traffic will be the overall in charge of traffic management who is assisted by Dy. SP, Traffic in case of offsite emergency.
- 2. Receive the communication of offsite emergency from CEC and disseminate the information to all the functionaries and mobilize required force and put them into action for managing various traffic points, routes, etc.
- 3. For each industry, separate routes are identified as normal route and emergency route.
- 4. Mobilize necessary police personnel/vehicles to man and control traffic on various roads identified as safe routes and also take measures to divert normal traffic away from the emergency routes identified.
- 5. Ensure available of adequate number of vehicles fitted with public address system/wireless etc. and directly supervise manning of routes and parking yards...3
- 6. Initiate action to ensure adequate number of skilled drivers in consultation with RTO, KSRTC, Home guards and Truckers Association etc.

- 7. The SP will initiate action on his own only under exceptional circumstances; however, his action shall be communicated to his superiors and should be confirmed with CEC.
- 8. Any other action as deemed necessary base on the circumstances.

## **Functions of Fire Services**

- 1. The Regional Fire Office is located at Koppal.
- 2. The Regional Fire Officer and the Divisional Fire Officer are responsible to fight and control the fire, leakage, spillage, etc., with proper instructions and guidance.
- 3. Rush to the site of emergency immediate after the receipt of information from the site Controller or on emergency call.
- 4. Establish safe routes in advance for rushing to site and ensure best response time to minimize damage.
- 5. Workout advance plan for requirement of resources like fire tenders, trained personnel, protective equipment and the ways to meet extra requirements if any.
- 6. Assist the onsite emergency personnel in fighting emergency, rescuing injured/ affected people trapped in dangerous zones and participate in salvage operation.
- 7. Assist medical/police personnel in imparting first aid.
- 8. Ensure availability of adequate water supply through KIADB authorities.
- 9. Maintain constant contact and communicate the message to the CEC with regard to the control measures undertaken, salvage operation, rescue methods, etc. And any other information required by the CEC on continuous basic.
- 10. Take any other appropriate actions as deemed necessary in control of emergency.

## Functions of Police Inspector/Sub Inspector

They will receive orders from the DSP and act accordingly the Police Inspector will assume the charge of DSP in the absence of the DSP till such time the superior officer arrives at the place of accident and takes control then onwards, he will continue to receive the orders from the superior officers and act accordingly.

#### **Functions of Police (Traffic)**

- 1. The officer will be overall in charge of parking yard and for managing, controlling and arranging sufficient number of vehicles.
- 2. Ensure that adequate number of trucks, buses and other mode of transport vehicles are arranged for rescue operation in co-ordination with RTO.
- 3. Ensure that adequate communication vehicles are arranged in coordination with various police authorities.
- 4. Motor Vehicle Inspector from RTO department will be assisting Inspector of Police (Traffic) in managing parking yards.
- 5. Assist the DSP, Police Inspector Traffic in mobilizing adequate number of skilled drivers in consultation with RTO, KSRTC, Truckers Associations and Home guards etc., as the case may be.

#### **Functions of Fire Station Officer**

The Fire Station can cater to the immediate need of the plant, but certainly not adequate to manage the emergency assumed in this document. Therefore,

- 1. On receipt of fire call, rush to the site of incident with all crewmembers and equipment and start fighting the fire.
- 2. Immediately send distress call to all other fire stations for additional reinforcement. Contacts the Divisional Fire Officer and informs him about the severity of the fire, the kind of assistance required, etc.
- 3. Continue to receive the necessary information from his superior officers and the DSP and adhere to the instructions.
- 4. Assist the police, Home guards and other Rescue Team the rescue evacuation of persons, salvage, etc.
- 5. Continue to be in action till such times the divisional fire officer or his deputy arrives at the place of incident and takes charge. From there onwards, he will continue to assist the officials.

#### **Function of Health and Medical Services**

- 1. District Health Officer (DHO) will be overall in charge of health and medical services to be rendered at the site of emergency or at various rescue shelters, affected places, hospitals, pathology laboratories, etc.
- On receiving the information from CED, he will contact all Hospital Superintendents, Drug Controller, Blood Banks for mobilization of required ambulances, Doctors, Nurses, Medicines, life saving drugs, blood,\* etc.
- 3. Rush to the site, assess the extent of severity and establish adequate (Temporary Medical Centre). Ensure hygienic conditions at the rescue shelters cum rallying posts, temporary medical centers. Take appropriate action in shifting affected persons to proper hospitals in Koppal and provide appropriate treatment.
- 4. Arrange for removal of dead bodies, if any, after post-mortem and disposal of the same, in consultation with CEC and DCP.
- 5. Render advice to CEC on precautionary measures to be taken by public in affected sites/villages, rescue shelter cum rallying posts to prevent the outbreak of epidemic diseases.
- 6. If necessary, he should undergo training to handle the wireless apparatus for effective communications.

#### **Functions of Veterinary Service:**

- 1. Deputy Director of Animal Husbandry will be the overall in charge for treatment of affected animals at site/hospital in co-ordination with police/voluntary organizations and revenue authorities.
- 2. On receiving information from CEC, he will rush to the site and activate the Temporary Medical Centre (TMC) at appropriate places in consultation with CEC.
- 3. Dy. Director will also co-ordinate with Assistant Commissioner, RTO, DCP, Inspector of Police (Traffic), for arranging necessary vehicles for shifting of animals, if required.
- 4. The officer will be provided with one Police Officer with adequate number of Police Personnel and Home guards to ensure the orderly treatment and management of the Temporary Medical Center.

5. The officer will identify the drug stores and ensure the supply of adequate and necessary drugs through the Drug Control Authorities.

## **Functions of RTO**

- 1. The RTO will be the overall in charge for providing number of rescue vehicles like trucks, buses, cars or any other type of transportation vehicles to emergency site, rescue shelter cum rallying post etc., for transportation of human beings as well as animals.
- 2. Receive information from CEC and act accordingly.
- 3. Mobilize all possible resources is arranging transportation vehicles in coordination with KSRTC, Truckers Association, Travel Agencies, etc, also ensure availability of adequate number of skilled drivers and advise the Inspector (Traffic).
- 4. Workout the requirement of heavy earth moving equipment like cranes etc., and mobilizes the same in coordination with such agencies/parties.
- 5. Depute adequate numbers of Motor Vehicle Inspectors for assisting Inspector of Police, Traffic (in charge of parking yard), and Rescue Shelter cum rallying post, at the site of emergency.

#### Functions of Karnataka State Pollution Control Board

- 1. On receiving information from CEC, the Environmental Officer will mobilize all possible resources at his disposal and keep the laboratory functioning for analysis of pollutants, emissions, etc.
- 2. Rush to the site, collect the samples, analyze the pollutants and the likely effect on human life/environment and inform the CEC about the same and the corrective actions to be taken to prevent further damage.
- 3. Act as an expert and advice the CEC about the kind of message to be disseminated to the public and press, etc, on pollution matters.

#### Function of Experts of District Crisis Group (DCG)

- 1. All the member of the DCG will be communicated about the emergency.
- 2. On receipt of emergency communication, they will immediately inform the control room about the place of their availability and simultaneously report to the CEC.
- 3. They will receive necessary instructions from the CEC and act accordingly.
- 4. They will render adequate and timely technical guidance and assist CEC and other agencies involved in the control of emergency.

# CHAPTER-9 EQUIPMENTS AND RESOURCE AVAILABLE IN KOPPAL DISTRICT

<b>Resource Function</b>	Source	Motor to	Capacity	Collection	Nearest Village
		Pump Water		point	
				Motor able	
Fire Fighting	Boozer Tank	Electricity	16000	Motor able	Fire Station Koppal
Drinking Water	Tank	Electricity	30000	Motor able	CMC Water Supply
Fire & Emergency	Tank	Electricity	20000	Motor able	Fire Station Gangavati
Fire & Emergency	Water Tanker	Electricity	9000	Motor able	Fire Station Karatagi
Fire & Emergency	Water Tanker	Electricity	9000	Motor able	Fire Station Kushtagi
Fire & Emergency	Water Tanker	Electricity	9000	Motor able	Fire Station Kukanoor
Fire & Emergency	Water Tanker	Electricity	4500	Motor able	Fire Station Yelburga

# Details of water Sources in Fire and Emergency Services

## **Details of Equipments in Fire and Emergency Services**

S.No	Item Name	Item	Unit/Quantity	Location	Mode of
		Description			transport
1	Bolt Cutter	Cutting	03	Fire Station	Road
2	Axe	Cutting	12	Fire Station	Road
3	Inflatable Light	Lighting	08	Fire Station	Road
4	Generator	Power	04	Fire Station	Road
5	Lifebuoy	Water Rescue	55	Fire Station	Road
6	Life Jacket	Water Rescue	52	Fire Station	Road
7	BA Sets	Rescue	15	Fire Station	Road
8	BA Compressor	BA Cylinder	01	Fire Station	Road
9	Pump (pp)	Water	08	Fire Station	Road
10	Ladder	Rescue	15	Fire Station	Road
11	CoZ fire Extinguisher	First Aid	20	Fire Station	Road
12	Foam fire Extinguisher	First Aid	05	Fire Station	Road
13	DCP ire Extinguisher	First aid	10	Fire Station	Road
14	Fire Tenders	Fire Fight	15	Fire Station	Road

<b>Details of Equipments in</b>	<b>Department of Police</b>
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S.No	Item Name	Item Description	Unit/Quantity	Location	Mode of
					transport
1	Life Jacket	Water Rescue	06	Police	Road
2	Ropes	Any Disaster	01	Police	Road
3	Zeep	Any Disaster	03	Police	Road
4	Van	Any Disaster	03	Police	Road

S.No	Item Name	Item Description	Unit/Quantity	Location	Mode of transport
1	Mahindra Marshal Zeep	Diesel	01	Home Guard	Road
2	Swaraz Mazda Mini Bus	Diesel	01	Home Guard	Road
3	Alluminium Lader		06	Home Guard	Road
4	Life Jackets		10	Home Guard	Road
5	Life Boye (Rings)		04	Home Guard	Road
6	Structure		01	Home Guard	Road
7	PP ROPS 01 220 MTRS		01 BDL	Home Guard	Road
8	ROPS 1/2 220 MTRS		01 BDL	Home Guard	Road

# **Details of Equipments in Home Guard Department Koppal**

# Number of Veterinary Hospitals in Koppal District

S. No	Taluka	District Polyclinic	Veterinary Hospital	Veterinary Dispens	Primary Wet.Cet	Mobile Dispens	Total
1	Koppal	01	03	13	01	01	19
2	Gangavati	00	07	12	02	01	22
3	Yelburga	00	04	16	01	01	22
4	Kushtagi	00	04	07	06	01	18
		01	18	48	10	04	81

## Number of Industries in Koppal District

S.No	Taluka	No of Small Scale	No of Medium	No of Large Scale	
		Industries	Scale Industries	Industries	
1	Koppal	1160	05	22	
2	Gangavati	2726	03	02	
3	Kushtagi	1760	03	02	
4	Yelburga	2287	00	00	
Koppal I	District Total	7933	7933 11		

Source: District industrial Centre koppal

## Taluka Wise No of Petrol Bunks in Koppal District

S.No	Taluka	No of Petrol Bunks
1	Gangavati	26
2	Koppal	25
3	Kushtagi	10
4	Yelburga	11
	Koppal District Total	72

# Details of JCB, Maxi Cabs and Tippers Available in Koppal District

Name of Vehicle	Registration Number	Owner Name	Current and Permanent Address	Fuel
Tipper	KA37B0663	MAHEBOOB SAB	<u>Current Address</u> D NO538 SHIVAPURA ROAD 3RD WARD,MUNIRABAD RS HULGI VILL,KOPPAL,Koppal,Karnataka,583234	DIESEL

			D (A11	
			Permanent Address	
			D NO538 SHIVAPURA ROAD 3RD	
			WARD, MUNIRABAD RS HULGI	
			VILL,KOPPAL,Koppal,Karnataka,583234	
		SHANKRAPPA S/O	Current Address HIREBOGANHAL,KOPPAL,,Koppal,Karnataka,583228	
Tipper	KA37B0670	HUNUMAPPA GUGINAMARI	Permanent Address HIREBOGANHAL,KOPPAL,,Koppal,Karnataka,583228	DIESEL
			Current Address	DIEGEE
1			WARD NO 22 4-11-170/4-11-169,GUNDAMMA	
		GAVI CRANE AND	CAMP,TQ GANGAVATHI,Koppal,Karnataka,583227	
		JCB SERVICES	Permanent address	
			WARD NO 22 4-11-170/4-11-169,GUNDAMMA	
Tipper	KA37B0679		CAMP,TQ GANGAVATHI,Koppal,Karnataka,583227	DIESEL
ripper	IN IST BOOTS		Current Address	DIEGEE
		KALLAYYA S/O	MANNAPUR, MALEKOP, ,Koppal, Karnataka, 583232	
		VEERUPAKSHAYYA	Permanent Address	
Tipper	KA37B0755	HIREMATHA	MANNAPUR, MALEKOP, ,Koppal, Karnataka, 583232	DIESEL
ripper	<b>KA37D0733</b>		Current Address	DILSEL
1			16/37 BEHIND SSV COLLEGE	
			NAGAR,TAVARAGERE,TQ-	
		SANTHOSH S/O	KUSHTAGI,Koppal,Karnataka,583231	
		SHYAMANNA	Permanent Address	
		UPPAL	16/37 BEHIND SSV COLLEGE	
Mari				DIECEL /
Maxi Cab	KA27D0762		NAGAR, TAVARAGERE, TQ-	DIESEL/
Cab	KA37B0762		KUSHTAGI,Koppal,Karnataka,583231	HYBRID
			Current Address	
			WARD NO 02, RAMPUR, MALLAPUR	
		KRISHNA S/O	GANGAVATHI,Koppal,Karnataka,583227	
		LAXMAPPA	Permanent Address	
Maxi			WARD NO 02, RAMPUR, MALLAPUR	DIEGEI
Cab	KA37B0808		GANGAVATHI,Koppal,Karnataka,583227	DIESEL
			PWD CLASS 1 CONTRACTOR WARD NO	
		HANUMESH M	12, SAJJIHOLA STREET KOPPAL, TQ AND	
		KADEMANI S/O	DIST KOPPAL,Koppal,Karnataka,583231	
		MARIYAPPA	Permanent Address	
		KADEMANI	PWD CLASS 1 CONTRACTOR WARD NO	
		KADLWAN	12,SAJJIHOLA STREET KOPPAL,TQ AND DIST	
Tipper	KA37B0840		KOPPAL,Koppal,Karnataka,583231	DIESEL
			Current Address	
			GADDI UDAMKAL,GANGAVATHI	
		LINCADDA C/O	TALUK,KOPPAL	
		LINGAPPA S/O	DISTRICT,,Koppal,Karnataka,583235	
		DURAGAPPA	Permanent address	
		PUJARI	GADDI UDAMKAL,GANGAVATHI	
Maxi			TALUK,KOPPAL	
Cab	KA37B0881		DISTRICT,,Koppal,Karnataka,583235	DIESEL
			Current address	
		M/S SAMARTH	SY NO 60/3, CHANNAPANAHALLI,	
		STONE CRUSHER	YELBURGA,Koppal,Karnataka,583232	
Tipper	KA37B0915		Permanent address	DIESEL
- 17901	10,00010			

			SY NO-60/3, CHANNAPANAHALLI,	
			YELBURGA,Koppal,Karnataka,583232	
		THIRUPATEPPA S/O RAMANNA	<u>Current Address</u> WARD-6, MALLIKARJUNA NAGARA,SIDDAPURA (VI),GANGAVATHI (TQ),Koppal,Karnataka,583282 <u>Permanent Address</u>	
Maxi Cab	KA37B0960		WARD-6, MALLIKARJUNA NAGARA, SIDDAPURA (VI), GANGAVATHI (TQ), Koppal, Karnataka, 583282	DIESEL
Tipper	KA37B1001	SHARANAGOUDA MALIPATIL S/O GURUPADA GOUDA	Current AddressNO 73 , WARD NO 01 NEAR GUDDA, MAILAPURGANGAVATHI, TQ GANGAVATHI DISTKOPPAL, Koppal, Karnataka, 583227Permanent AddressNO 73 , WARD NO 01 NEAR GUDDA, MAILAPURGANGAVATHI, TQ GANGAVATHI DISTKOPPAL, Koppal, Karnataka, 583227	DIESEL
Tipper	KA37B1009	PRASHANTH S/O KUSHAL RAO SAVADAGAR	<u>Current Address</u> SANJAY NAGAR KUKANOOR,TQ YELBURGA,DIST KOPPAL,Koppal,Karnataka,583232 <u>Permanent Address</u> SANJAY NAGAR KUKANOOR,TQ YELBURGA,DIST KOPPAL,Koppal,Karnataka,583232	DIESEL
Tipper	KA37B1051	HANUMANTHAPPA L S/O LINGAPPA	<u>Current Address</u> WARD 03, SC ONI AT NAGANAKAL,BEVINAL TQ GANGAVATHI KOPPAL,,Koppal,Karnataka,583229 <u>Permanent Address</u> WARD 03, SC ONI AT NAGANAKAL,BEVINAL TQ GANGAVATHI KOPPAL,,Koppal,Karnataka,583229	DIESEL
Tipper	KA37B1088	KANAKAPPA	<u>Current Address</u> KANAKAPURA,KANAKAGIRI,TQ GANGAVATHI,Koppal,Karnataka,583227 <u>Permanent Address</u> KANAKAPURA,KANAKAGIRI,TQ GANGAVATHI,Koppal,Karnataka,583227	DIESEL
Tipper	KA37B1106	MANJAPPA S MUDDABALLI S/O SHANKRAPPA MUDDABALLI	Current Address HANWAL TQ & DIST,KOPPALA, Koppal, Karnataka,583238 Permanent Address HANWAL TQ & DIST,KOPPALA,,Koppal,Karnataka,583238	DIESEL
Tipper	KA37B1247	SANGAPPA TIPPANNA PAWAR S/O TIPPANNA PAWAR	Current AddressWARD NO 06 NEAR SEVALALTEMPLE,HOOLAGERI,HANAMASAGAR TQKUSHTAGI,Koppal,Karnataka,584121Permanent AddressWARD NO 06 NEAR SEVALALTEMPLE,HOOLAGERI,HANAMASAGAR TQKUSHTAGI,Koppal,Karnataka,584121	DIESEL
Tipper	KA37B1254	TUKARAMA LOKAPPA S/O LOKAPPA	<u>Current Address</u> H.NO.100/2, W.NO.1,,VENKATAPUR,,TALUK- KUSHTAGI,Koppal,Karnataka,583281	DIESEL

			Dormonant Address	1
			Permanent Address H.NO.100/2, W.NO.1, VENKATAPUR, TALUK-	
			KUSHTAGI,Koppal,Karnataka,583281	
			Current Address	
			PROP:RAGHAVENDRA MANSALI,NO.1-6-75/,1-4-	
			23, WARD NO.03, DAILY MARKET RD,, VALMIKI	
		AADHYA	CIRCLE, BENDRA ONI,,Koppal,Karnataka,583227	
		ENGINEERINGS	Permanent Address	
		LINOINLEININOS	PROP:RAGHAVENDRA MANSALI,NO.1-6-75/,1-4-	
			23, WARD NO.03, DAILY MARKET RD,, VALMIKI	
JCB	KA37N2735		CIRCLE, BENDRA ONI,,Koppal,Karnataka,583227	DIESEL
JCD	101371(2733		Current Address	DILGLL
			WARD NO4 SIDDAPURA	
			GANGAVATHI,KOPPAL,,Koppal,Karnataka,584130	
		BASAVARAJ R	Permanent Address	
			WARD NO4 SIDDAPURA	
JCB	KA37N2919		GANGAVATHI,KOPPAL,,Koppal,Karnataka,584130	DIESEL
			Current Address	
			NO37 RAGHAVENDRA COLONY	
		SHIVAPUTRAPPA	YELBURGA,KOPPAL,,Koppal,Karnataka,583236	
		DEVAR S/O	Permanent Address	
		SANGAPPA	NO37 RAGHAVENDRA COLONY	
JCB	KA37N2956		YELBURGA,KOPPAL,,Koppal,Karnataka,583236	DIESEL
			Current Address	
			118N 2ND WARD NAGANAKAL	
			BEVINHAL,GANGAVATHI	
		<b>GURAPPA S/O</b>	KOPPAL,,Koppal,Karnataka,583229	
		GURAPPA	Permanent Address	
			118N 2ND WARD NAGANAKAL	
			BEVINHAL, GANGAVATHI	
JCB	KA37N3041		KOPPAL,,Koppal,Karnataka,583229	DIESEL
			Current Address	
			HIREWANKALKUNTA	
		ISHAPPA S/O	VANKALKUNTA,YALBURGA	
		PARAMESHAPPA	KOPPAL,,Koppal,Karnataka,583237	
		HUNASIHAL	Permanent Address	
			HIREWANKALKUNTA	
			VANKALKUNTA, YALBURGA	
JCB	KA37N3046		KOPPAL,,Koppal,Karnataka,583237	DIESEL
			Current Address	
			TENGUNTI GUMGERA	
		PARASAPPA G	KUSTAGI,KOPPAL,,Koppal,Karnataka,583277	
			Permanent Address	
ICD	Z A 27N 2001		TENGUNTI GUMGERA	DIEGEI
JCB	KA37N3081		KUSTAGI,KOPPAL,,Koppal,Karnataka,583277	DIESEL
			Current Address # 121 DANGADUD CROSS HANAMANAL	
		SHRI	# 121, RANGAPUR CROSS, HANAMANAL	
		MALLIKARJUN	POST,KUSHTAGI TALUK,Koppal,Karnataka,583280	
Tinnar		KAIGARUKE	Permanent Address # 121, RANGAPUR CROSS, HANAMANAL	
Tipper (NT)	KA37N3173		POST,KUSHTAGI TALUK,Koppal,Karnataka,583280	DIESEL
(111)	MAJ/1131/3		TOST, RUSHTAUT TALUK, Ruppat, Kalilataka, 305200	DIESEL

	Lower Primary				er Primary	High School			
Taluka	Teacher	Student	Ratio	Teacher	Student	Ratio	Teacher	Student	Ratio
Gangavathi	337	8819	26.17	900	35880	39.87	315	13575	43.1
Koppal	187	4373	23.39	1129	35478	31.42	326	10260	31.5
Kustagi	198	5354	27.04	876	34323	39.18	277	10678	38.5
Yelburga	168	5041	30.01	819	29104	35.54	315	11276	35.8
District Total	890	23587	26.50	3724	134785	36.19	1233	45789	37.1

# Teacher and Students Ratio in Schools in Koppal district

# Block wise – Management wise Number of Lower Primary Schools (LPS)

			Government Schools				Un-	Other			
SI.			Social	Local		Aided	Aided	Management	Central	Total	
No.	Block Name	DoE	Welfare	Body	TOTAL	Schools	Schools	Schools	Schools	Schools	
1	GANGAVATHI	158	2	0	160	0	57	0	0	217	
2	KOPPAL	78	0	0	78	1	39	0	0	118	
3	KUSTAGI	85	1	0	86	0	28	0	0	114	
4	YELBURGA	68	1	0	69	1	25	0	0	95	
	TOTAL	389	4	0	393	2	149	0	0	544	

Source: STS 2016-17

# Block/Management Wise No of Upper Primary Schools

	<b>Government Schools</b>								Í
		Social Welfar	Loca l Bod	ТОТА	Aided School	Un- Aided School	Other Manageme	Centr al School	Total School
Block Name	DoE	e	У	L	S	S	nt Schools	S	S
GANGAVAT									
HI	156	7	0	163	13	62	0	0	238
KOPPAL	154	5	0	159	5	49	0	0	213
KUSTAGI	136	3	0	139	5	15	0	0	159
YELBURGA	127	9	0	136	3	29	0	1	169
TOTAL	573	24	0	597	26	155	0	1	779
	GANGAVAT HI KOPPAL KUSTAGI YELBURGA	GANGAVAT HI 156 KOPPAL 154 KUSTAGI 136 YELBURGA 127	Block NameDoEWelfarGANGAVATHI1567KOPPAL1545KUSTAGI1363YELBURGA1279	Block NameSocial WelfarI BodBlock NameDoEeyGANGAVATHI15670KOPPAL15450KUSTAGI13630YELBURGA12790	Block NameDoESocialIBlock NameDoEeyLGANGAVATHI15670163KOPPAL15450159KUSTAGI13630139YELBURGA12790136	Block NameDoESocial WelfarI BodTOTAAided SchoolBlock NameDoEeyLsGANGAVATHI1567016313KOPPAL154501595KUSTAGI136301395YELBURGA127901363	Block NameDoESocial WelfarI Bod yTOTAAided SchoolAided SchoolBlock NameDoEeyLssGANGAVATeyLssHI156701631362KOPPAL15450159549KUSTAGI13630139515YELBURGA12790136329TOTAL57324059726155	Block NameDoESocial WelfarI BodTOTA TOTAAided SchoolAided Manageme nt SchoolsBlock NameDoEeyLSchoolSchoolManageme nt SchoolsGANGAVATH1567016313620KOPPAL154501595490KUSTAGI136301395150YELBURGA127901363290TOTAL573240597261550	Block NameDoESocial WelfarI BodTOTA TOTAAided 

Source: STS 2016-17

## Block/Management Wise No of Elementary (LPS+HPS) Schools

			Governme	ent School	S		Un-	Other		
SI.			Social	Local		Aided	Aided	Management	Central	Total
No.	Block Name	DoE	Welfare	Body	TOTAL	Schools	Schools	Schools	Schools	Schools
1	GANGAVATHI	314	9	0	323	13	119	0	0	455
2	KOPPAL	232	5	0	237	6	88	0	0	331
3	KUSTAGI	221	4	0	225	5	43	0	0	273
4	YELBURGA	195	10	0	205	4	54	0	1	264
	TOTAL	962	28	0	990	28	304	0	1	1323

Source: STS 2016-17

			Governme	ent Schoo	ols		Un-	Other		
S1.			Social	Local		Aided	Aided	Management	Central	Total
No.	Block Name	DoE	Welfare	Body	TOTAL	Schools	Schools	Schools	Schools	Schools
1	GANGAVATHI	45	7	0	52	9	46	0	0	107
2	KOPPAL	34	7	0	41	9	30	0	0	80
3	KUSTAGI	34	3	0	37	5	13	0	0	55
4	YELBURGA	42	10	0	52	8	11	0	1	72
	TOTAL	155	27	0	182	31	100	0	1	314

2 - Block wise / Management wise High Schools in the District

Source: STS 2016-17

# CHAPTER-10 CONTACT NUMBERS

	Important Departments and Officers Involved in Disaste	r Management	
S.NO	Designation of the Officer	Landline	Mobile
1	Sunil, Commissioner City Municipal Council, Koppal	230192	9900910701
		230280	
	Raghunandan Murthy CEO ZP Kopal	220002	9480871000
	Sangeeta G SP Koppal	230111, 230800	9480803701
2	Yashpal Sing, DFO Koppal	220021	9482640527
			9482063713
	MP Maruti ADC Koppal		9632370680
	C D Geeta AC Koppal	220247	9886660847
3	Shabana M Shek Joint Director Dept of agriculture Koppal	221633	8277932100
	Siddarameshwar PD DUDC Koppal	221895	9606729144
4	Basavaraj M S DDPI Koppal	221303	9448999346
5	B. Dhananjayappa Dist Info Officer (NEWS) Koppal	220607	8151047949
			9480841217
6	M S Pattar Executive Engineer GESCOM Koppal Executive Engineer	224510	
	GESCOM Koppal		9448359020
7	Thirumala Rao EE PWD Koppal	222318-222317	9380344693
			9844509084
8	Rangayya Badiger EE PRED i/c	220845	9449447283
9	Krishnamurthi Statistical Officer KPL	221869	8762302963
10	D. Dayanand Dist Youth Coordinatior NYK Koppal		9902781815
			7349031958
11	Basayya Sali DD Vetaranary KPL i/c	221408	7892285129
			9449641224
12	Noor mohad RTO KPL	225023	9449864035
			9739838199
13	K.M.Siddeshwar Faire Officer KPL	221300	7760671603
15		221660	9449843056
	Dr. Rajakumar Yargal DHO Koppal		9480399463
16	Rajesh Nadiger AD Youth Service Koppal	201400	8197058425
17	B. Kallesh DSWO	220138	9480843039
			9481099256
18	Baburao Lead Bank Manager	220976	9449460244
19	Rangayya Badiger EE RWSS		9449447283
20	Vinodkumar GuptaMainor Erigation EE i/C		9448577577
21	Erappa Ashapur BCM	221606	9731042063
			9480200591
	N.K Turvi DS ZP KPL	220237-220217	9448710077
	Ombudsman ZP Office KPL	225048	9480871007
	Ravi Basarihalli PD ZP	221207	9480871002
	Krishna Ukkund.	231530	9448999237
	Korabu DD Land Army KPL		9449863091
	Shivashankar AEE KHB KPL	234565	9880191070
	Mohad Faiz DC NEKRTC KPL	222340	7760992400

Rawal Mines & Geology KPL	221285	9448763756
Manjunatha K Pollution Control Officer	222234	9845116169
Dr. Danareddy Dist. Surgeon	225066	9449843173
Ratimani DDPU	222246	8904862775
Eranna Panchal, DDW&C i/c	222703	9591061005
Baurao Lead Bank Manager	220976	9449460244
Eranna DIO, NIC	222352	9448888114
Fax Number(DC office) KOPPAL	-	221235
Rajendrakumar DD, Sericulture KPL I/C	230170	9880664510
S.H Manjappa Supt,Eng,Munirabad	270026270012	9964696492

# 1. Taskforce Committee, Kanakagiri

S.No	Name	Designation	Contact No
1	Shri. Basavaraj Dadesugur	Chairman Taskforce Committee MLA,	9482411666
		Kanakagiri.	
2	Shri. Ravi.S Angadi	Member Secretary	9449294410
		& Tahasildar, Kanakagiri	
3	Shri. Mohan	Member, Executive Officer TP, Gangavati	
			9538373948
4	Shri Chidanada	Member, Ececutive Engineer, RWSS Sub-	9902335960
		Division, Gangavati	

## 2. Taskforce Committee, Karatagi

S.No	Name	Designation	Contact No
1	Shri. Basavaraj Dadesugur	Chairman Taskforce Committee MLA,	9482411666
		Kanakagiri	
2	Smt. Kavita.R	Member Secretary & Tahasildar, Karatagi.	8904242184
3	Shri. Mohan	Member, Executive Officer TP, Gangavati	
			9538373948
4	Shri Chidananda	Member, Ececutive Engineer, RWSS Sub-	9902335960
		Division, Gangavati	

## 3. Taskforce Committee, Kustagi

S.No	Name	Designation	Contact No
1	Shri. Amaregowda.L Patil	Chairman Taskforce Committee MLA,	9448147099
	Bayyapur	Kustagi	
2	Shri. Siddesh M	Member Secretary & Tahasildar, Kustagi	9741185772
3	Shri. K.Thimmappa	Member, Executive Officer TP, Kustagi	9480871110
4	Shri. S.D.Nagoda	Member, Assistant Ececutive Engineer,	7022196546
		RWSS Sub-Division, Kustagi	

# 4. Taskforce Committee, Gangavati

S.No	Name	Designation	Contact No
1	Shri. Paranna Manavalli	Chairman Taskforce Committee MLA,	9448131282
		Gangavati	
2	Shri. Chandrakant	Member Secretary & Tahasildar, Gangavati	9900595503
3	Shri. Mohan	Member, Executive Officer TP, Gangavati	
			9538373948
4	Shri Chidananda	Member, Ececutive Engineer, RWSS Sub-	9902335960
		Division, Gangavati	

S.No	Name	Designation	Contact No
1	Shri. Halappa Bassappa	Chairman Taskforce Committee MLA,	9901633996
	Achar	Yelburga.	
2	Shrishaila Talwar	Member Secretary & Tahasildar, Kukanur.	9482831330
3	Shri.Linganagowda	Member, Executive Officer TP,	
		Yelburga.	9945644338
4	Shri Tirukanagowda	Member, Assistant Ececutive Engineer, RWSS	9538167267
		Sub-Division, Yelburga.	

## 5. Taskforce Committee, Kukanur

# 6. Taskforce Committee, Yelburga

S.No	Name	Designation	Contact No
1	Shri. Halappa Bassappa	Chairman Taskforce Committee MLA, Yelburga.	9901633996
	Achar		
2	Shri. Shrishaila Talwar	Member Secretary & Tahasildar, Yelburga	9482831330
3	Shri Linganagowda	Member, Executive Officer TP,	
		Yelburga.	9945644338
4	Shri Tirukanagowda	Member, Assistant Ececutive Engineer, RWSS	9538167267
		Sub-Division, Yelburga.	

# 7. Taskforce Committee, Koppal

S.No	Name	Designation	Contact No
1	Shri. K.Raghavendra Itnal	Chairman Taskforce Committee MLA,	9901633996
		Koppal	
2	G B Majjigi	Member Secretary & Tahasildar, Koppal	9538242567
3	Shri T Venkobappa	Member, Executive Officer TP,	
		Koppal.	9480871115
4	Shri N Bharat Kumar	Member, Assistant Ececutive Engineer,	8105118050
		RWSS Sub-Division, Koppal.	

# **Contact Details of Fire and Emergency Department Koppal**

S.No	Dist/Taluka	Name of the Officer	Designation	Contact Det	Contact Details	
				Landline	Mobile	
1	Koppal	KM Siddeshwar	Dist Fire Officer	221300	9480823648	
					9886948237	
2	Koppal	G Krishnoji	Fire Station Officer	221300	9480823892	
					7619433179	
3	Gangavati	Khajamoinuddin	Fire Station Officer	271444	9480823893	
	-				9243994260	
5	Kushtagi	Raju	ASFO	268101	9480823895	
	_	-			8197646258	
6	Yelburga	K Janardhan Rao	AFSO	220101	9480823897	
	-				9742875484	
7	Karatagi	Urakundappa	AFSO	274600	9480823896	
	-				6361773779	
	Kukanoor	Sangappa	AFSO	230570	9480823894	
					7979847723	

	FF		
J.B Majjige	Tahsildar Koppal	220381	9620972112
Chandrakant	Tahsildar Gangavathi	08533-230929	9900595503
Siddesh M	Tahsildar Kustagi	08536-267031	9741185772
Shrishail Talwar	Tahsildar Yelburga	08534-220130	9482831330
Ravi S Angadi	Tahsildar Kanakagiri		9731493636
Kavita R	Tahsildar kartagi		8904242184
Shrishail Talwar i/C	Tahsildar Kukanoor		9482831330

## **Koppal District Tahasildars Numbers**

### Contact Details of City Municipal Commissioners and Municipalities Chief Officers

Manjunath	CMC Koppal	230192-230280	9742138927
Shanmukappa	CMC Gangavathi	08533-230243	9035802328
Ashok Patil	Chief officer Kushtagi	08536-267041	9945429875
Mahesh Nidasheshi	Chief officer Yelburga	08534-220138	9741377297
Shivalingappa	Chief officer Kartagi		9880342411
Smt M Thirumala	Chief officer Kanakagiri	08533-240224	9741377297
Sankanagouda	Chief officer Kukanoor		9606298948
Babu	Chief officer Bhagyanagar		9980208771
Shankar Kale	Chief officer Tavaragera		9341241838

#### Contact Details of Executive Officers of Taluka Panchayats in Koppal District

T Venkobappa	EO TP Koppal	220399	9480871115
Mohan	EO TP Gangavathi	08533-230230	9538373948
Linganagowda	EO Yelburga	08534-220136	9945644338
K Thimmappa	EO Kustagi	08536-267028	9480871110

### Contact Details of Koppal District MLA's and MP's

Raghavendra Hitnal	MLA Koppal	9448366711	9620425101
Halappa Achar	MLA Yalburga		9901633996
Amregouda Bayyapur	MLA Kustagi		9448147099
Basavaraj Dadesur	MLA Kanakgiri		9482411666
Paranna Mnolli	MLA Gangavathi		9448131282
Karadi Sanganna	MP Koppal		9964246099

## **Contact Details of Government Hospitals in Koppal District**

S.NO	Name of the Talika	Name of the Institution	Contact No
1	Koppal	CHC Hiresindhogi	9482594174
2	Koppal	CHC Munirabad	8095758840
3	Koppal	PHC Kavalur	
4	Koppal	PHC Alawandi	9902119776
5	Koppal	PHC Kinnal	9686385285
6	Koppal	PHC Irakallgada	7220454426
7	Koppal	PHC Hitnal	8095758840
8	Koppal	PHC Betageri	9164135799
9	Koppal	PHC Indaragi	9964574076

10	Koppal	PHC Hirebommanal	9972569767
11	Koppal	PHC Kukanapalli	
12	Koppal	PHC Ginnigera	9741119787
13	Koppal	PHC Bhagyanagar	9739428666
14	Koppal	PHC Gondabal	8105566825
15	Koppal	PHC Hulagi	9972432169
16	Koppal	PHC	
-		Hosabandiharlapura	
17	Gangavati	GH Gangavati	9448022756
18	Gangavati	CHC Karatagi	9845639883
19	Gangavati	CHC Kanakagiri	7829254408
20	Gangavati	CHC Shreeramnagar	9845507936
21	Gangavati	PHC Navali	9019554350
22	Gangavati	PHC Budagumpa	8277498539
23	Gangavati	PHC Bennur	9591869498
24	Gangavati	PHC Siddapur	8893093002
25	Gangavati	PHC Hosakera	9845339610
26	Gangavati	PHC Mustur	8105485851
27	Gangavati	PHC Musalapur	9591869498
28	Gangavati	PHC Venkatagiri	9448776999
29	Gangavati	PHC Anegundi	
30	Gangavati	PHC Sangapur	9886468630
31	Yelburga	GH Yelburga	9731414564
32	Yelburga	CHC Kukanur	9916129677
33	Yelburga	CHC Hirewankalakunta	9845349230
34	Yelburga	CHC Mangalore	
35	Yelburga	PHC Sanganal	884651181
36	Yelburga	PHC Balutagi	8951619189
37	Yelburga	PHC Mudol	9972314639
38	Yelburga	PHC Bandihal	8197745809
39	Yelburga	PHC Itagi	7892793746
40	Yelburga	PHC Chikenkoppa	9901881483
41	Yelburga	PHC Bannikoppa	9591547488
42	Yelburga	PHC Vajrabandi	8317380587
43	Yelburga	PHC Bevoor	8660469759
44	Yelburga	PHC Gunnal	9741717172
45	Yelburga	PHC Gandal	8105733157
46	Yelburga	PHC Benkal	9742566939
47	Yelburga	PHC Shriru	8495903713
48	Yelburga	MCH Talakal	
49	Kushtagi	GH Kushtagi	9535900956
50	Kushtagi	CHC Tawaragera	9113046265
51	Kushtagi	PHC Hanumanal	7795558893
52	Kushtagi	PHC Hanumasagar	8277498458
53	Kushtagi	PHC Hoolagera	8277498551
54	Kushtagi	PHC Dotihal	8277498546
55	Kushtagi	PHC Mudenoor	8277498552
56	Kushtagi	PHC Hiremannapur	9916863428
57	Kushtagi	PHC Chalagera	9986096991
58	Kushtagi	PHC Hiregonnager	8970750453

59 Kushtagi PHC Malagitti 8971745999		59	Kushtagi	PHC Malagitti	8971745999
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# Contact Details of Private Hospital /Nursing Homes Available in Koppal District

S.N	Contact Details of Private Hospital /Nursing Homes Av           Name of Hospital/Nursing Home	Contact Details	
0		Land No	Mobile No
1	Shri Nursing Home Koppal		9449006741
2	Dr.K.G.Kulkarni Hospital Koppal		9448380464
3	Bhagavati Children Hospital Koppal		7051018463
4	Kambliyal Orthropedic and General Hospital Koppal		9448323930
5	Yashoda Maternity and General hospital Koppal	08539-325314	9448434923
6	Lion eye Hospital Koppal	08539-230485	
7	Tara Hospital Koppal		8618410275
8	Shri Sai Hospital Koppal		9448954173
9	Shri Mangala Hospital Koppal		9916109497
10	Shrishaila Eye Clinic Koppal		9845790627
11	Koppal Scan Centre Koppal		9740097416
12	Chimmalgi Hospital Kopal		9008211811
13	Pritam Health Care Centre Koppal		9916075365
14	Vivikatha Orthropedic and Maternity Hospital Koppal		8105821815
15	Shri Sai Childrens Hospital Koppal		9686992222
16	Vivekananda Hospital Gangavati		9449019985
17	Annapurna Multispeciality Hospital gangavati		9242882287
18	Mariti Eye and Dental Hospital Gangavati		9445605974
19	Bhagirati Childrens Hospital Gangavati		9886332969
20	Shri Lakshmi Nursing home Gangavati		944814003
21	Om Sai Orthropedi and Trauma Centre Gangavati		9448361473
22	Swamy Eye Hospital Gangavati		9480687916
23	Padmaja Childrens Hospital Karatagi (GVT)		9886343410
24	Bhavikatti Nursing Home Gangavati		9448371292
25	KML Hospital Gangavati		9731977269
26	S.R.Yashoda Hospital Gangavati		9480089042
27	Sanjeevini Nursing Home Gangavati		9742127452
28	Mallikarjun Nursing Home Gangavati		9886391889
29	City Hospitsl Kampli Road Gangavati		9986217027
30	Channabasavaswamy Hospital Gangavati		9986027505
31	Netra Jyothi Superspeciality Eye Hospital Laser Centre		9348872108
	Gangavati		
32	Suraksha Child Care Karatagi GVT		9663451747
33	Gangavaati City Scanning Cenre Karatagi GVT		9448465814
34	Varasiddi Hospital and MRC Gangavati		9739288148
35	Vicvekashrinivasa Eye Hospital Hanumsagar Kushtagi		9900400614
36	Dr. Subash Kakhandaki Eye Hospital Kushtagi		9844665894
37	Shri Basaveshwara Maternity Hospital Kushtagi		9632111212
38	Rampur Nursing Home Koppal		
39	City Hospital Koppal		9986848824
40	G.S.R Multi speciality Hospital Koppal		9060896550
41	Khushi Multi speciality Hospital and trauma Centre Koppal		9886529620
42	Shrusha Nursing HomeGangavati	08533-270978	
43	Patil Nursing Home Gangavati		9448140808
44	Ananda Nursing Home Gangavti		9845942608

45	Vasavi Nurisng Home Gangavati		9845470451
46	Tejaswini Childrens and Maternity Home Gangavati		9448023967
47	Dr.G Chandrapa Multispeciality Hospital Gangavati	08533-231206	9900339996
48	Vinayaka Nursing Home Gangavati		9448133730
49	Amar Hospital/Nursing Home Gangavati		9482567648
50	Amareshwar ENT and Dental Hospital Gangavati		9448120433
51	Mahamaya Clini Kukanoor, yelburga		9986575465
52	Chiniwal Multi Speciality Poly Clinic Karatagi, GVT		9448122257

# Contact Details of Ambulances Available in Govt Hospitals of Koppal District

S.No	Vehicle Reg No	Address/Location	Contact No
1	KA-36 G-399	CHC Hiresindhogi	9900437542
2	KA-37 G-420	CHC Hiresindhogi	8310908087
3	KA-37-G-407	CHC Kukanoor	9901995893
4	KA-37 G-432	CHC Kukanoor	8050240028
5	KA-37 G-464	CHC Mangalore	9945879454
6	KA-37 G-421	SDH Gangavati	9164895752
7	KA-37 G-463	CHC Kanakagiri	9741434822
8	KA-37 G-391	PHC Siddapura	9740994240
9	KA-37 G-428	GH Kushtagi	8310899833
10	KA-37 G-460	GH Kushtagi	9945218049
11	KA-37 G-476	CHC Tawaragera	9535552574
12	KA-37 G-379	PHC Kavaloor	8105156205
13	KA-37 G-390	PHC Hitnal	7795386163
14	KA-37 G-419	GH Yelburga	9036812492
15	KA-37 G-465	GH Yelburga	7406963612
16	KA-37 G-438	CHC Hirewankalakunta	9916544140
17	KA-37 G-378	CHC Karatagi	8105522340
18	KA-37 G-422	CHC Karatagi	9591601334
19	KA-37 G-435	CHC Shreeramnagar	8310708541
20	KA-37 G-543	PHC Mudenur	7676649371
21	KA-37 G-547	PHC Bennur	9743067184
22	KA-37 G-418	CHC Munirabad	886750203
23	KA-37 G-528	SDH Gangavati	9036155192

# Contact Details of 108 Ambulances Available in Koppal District

0.4	KA 51 0 5412		0140425077	ALC
24	KA-51 G-5413	TLHGangavati	9148435877	ALS
25	KA-51 G-5406	PHC Kanakagiri	9148435878	BLS
26	KA-51 G-5408	CHC Karatagi	9148435789	BLS
27	KA-51 G-5405	PHC Navali	9148435876	ALS
28	KA-51 G-5411	PHC Hiresindogi	9148435880	BLS
29	KA-40 G-462	DH Koppal	9449861555	BLS
30	KA-42 G-883	PHC Kukumpalli	9148435881	BLS
31	KA-51 G-5412	PHC Munirabad	9148435882	BLS
32	KA-40 G-461	PHC Hanamanal	9148435886	BLS
33	KA-51 G-5407	PHC Hanumasagar	9148435884	BLS
34	KA-51 G-5409	TLH Kushtagi	9148435883	ALS
35	KA-51 G-5410	PHC Tawaragera	9148435885	BLS
36	KA-42 G-885	PHC Bannikoppa	9148435889	BLS
37	KA-37 G-462	PHC Bevoor	9148435890	BLS

38	KA-51 G-5404	CHC Hirewankalkunta	9148435892	BLS
39	KA-42 G-824	CHC Kukanoor	9148435891	ALS
40	KA-37 G-461	TLH Yelburga	9148435887	BLS

S.No	Unit/Station	Contact No
1	Superintendent of Police	9480803701
2	PSI Wireless Centre	9480803700
3	PI Wireless Centre	9480800957
4	DAR	9480803706
5	DSB	9480803707
6	DCIB	9480803708
7	DCRB	9480803709
8	FPB	9480803710
9	DSP Koppal	9480803020
10	DSP Gangavati	9480803721
12	CPI Gangavati (Rural)	9480803730
13	CPI Koppal (Rural)	9480803731
14	CPI Kushtagi	9480803732
15	CPP Yelburga	9480803733
16	PI Koppal (Urban)	9480803745
17	PSI Koppal (Rural)	9480803746
18	PSI Alawandi	9480803747
19	PSI Munirabad	9480803748
20	PSI Yelburga	9480803749
21	PSI Kuknoor	9480803750
22	PSI Bevoor	9480803751
23	PI Gangavati (Urban)	9480803752
24	PSI Gangavati (Rural)	9480803753
25	PSI Karatagi	9480803754
26	PSI Kanakagiri	9480803755
27	PSI Gangavati (Traffic)	9480803756
28	PSI Kushtagi	9480803757
29	PSI Tawaragere	9480803758
30	PSI Hanumasagar	9480803759
31	DCRB Computer Section	9480806043

# **Contact Details of Police Officials in Koppal District**

<b>Contact Details of Contractors in</b>	n Koppal District (PWD)
--	-------------------------

S.No	Name of the Contractor	Taluk	Mobile
	(Sriyuths)		
1	Suresh Bhoomaraddi	Koppal	9448130453
2	B M Purad	Koppal	9845230303
3	Suresh Thatti	Koppal	9448381559
4	Gurappa Kallur	Koppal	9448183654
5	S Prasad	Gangavathi	9448140647
6	R Rajashekar	Gangavathi	9448020966
7	G Nagamallesh	Gangavathi	9448334789
8	G Haribabu	Gangavathi	9448486119
9	Basavaraj Hallur	Kushtagi	9901392565
10	D S Kandakur	Kushtagi	9880532227
11	Rahmansab Doddamani	Kushtagi	9482768043

12	Ramesh Kapse	Kushtagi	9448120244
13	Mudakappa Bandare	Kushtagi	845347694
14	V B Bisnahall	Yelburga	9448649040
15	Mallappa Neelappagouda	Yelburga	9448764837
16	S V Naregal	Yelburga	9900484292
17	A K Hosangadi	Yelburga	9481282744
18	Shivaputrappa Hatti	Yelburga	9448267274
19	Veeresh Myagalmath	Yelburga	9480898911
20	Yamanurappa Nadvalmani	Yelburga	9448262984

# Contact Details of Information and Public Relation Officer Koppal District

Name of	Name of the Paper/Office	Contact No	E-mail
Officer/Reporter	_		
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<b>District Information</b>	Relation Officers of	9480841245	koppalnews@gmail.com
Officer	Koppal District		

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Sripad Ayachit	Indian Express	9448001135	expresskpl@gmail.com
Basavaraj Karkihalli	Vishwavani	8747984999	Basavarajpk85@gmail.com

## **Contact Details of Agriculture Department Officers Koppal District**

S.No	Name of the Officer	Designation	Mobile	Dist/Taluk
	Shabana M Shaik	Joint Director	8277932100	Koppal
	Siddesh	Deputy Director	8277932101	Koppal
	Yenkappa	Assistant Director	8277932119	Koppal
	Mahadev	Assistant Director	8277932109	Kustsgi
	Sharanappa	Assistant Director	9845769845	Yelburga
	Chandrakant	Assistant dDirector	8277932106	Gangavati

## Contact Details of Officers of Deputy Director Food Civil Supplies and Consumer Affairs Koppal District

S.No	Name of the Officer	Designation	Contact No
1	Smt. C.D Geeta	Deputy Director	9886660847
2	Shri Ravikumar Vastrad	Manager	9972705502
3	Shri Mallappa G Doddamani	Account Superintendent	8618355595
4	Shri M D Rafi	Account assistant	7892821450
5	Kumari Savita Unki	FDC (Deputation)	9611233623
6	Yelisha	Peon-1	9986278819
7	Shri M D Taher	Peon-2	9986078645

# Contact Details of Taluka Level Food Officers( Tahasil Office) in Koppal District

S.No	Taluka		Name of the Officer	Contact No
1		Food Shirastedar		
2	Koppal	Food Inspector	Shri. Channabassappa	9449464125
3	корра	Food Inspector		
4		SDC		
5		Food Shirastedar		
6	Congoveti	Food Inspector	Shri. H I Bagali	9743425038
7	Gangavati	Food Inspector	Smt. Nanda Palled	8762297130
8		SDC	Shri Pavankumar Nilogal	9036780356
9		Food Shirastedar	Shri Raju Firangi	9008669249
10	Kushtagi	Food Inspector		
11	Kushtagi	Food Inspector		
12		SDC	Shri Manjula Sirwar	9741161549
13		Food Shirastedar	Shri Mallikarjunayya	9844960399
14	Yelburga	Food Inspector		
15	Terourga	Food Inspector		
16		SDC	Raheeman	9945420539

	Contact Details of District Go-Downs					
S.No	Taluka	Details of Godown	Name of the	Contact No		
			Manager			
1	Koppal	KFCSC APMC Gunj Circle, Koppal	Shri Kantesh	9448541195		
2	Kushtagi	KFCSC Kushtagi	Shift Kantesh	9448341193		
3		KFCSC APMC Islampur Circle Gangavati	Shri Dagayarai	0448440274		
4		KFCSC Yelburga	Shri Basavaraj	9448440274		

# **Contact Details of District Go-Downs**

# Contact Details of LPG Distributers in Koppal District

S.No	Taluka	Name of Agency	Gas Company	Contact No
1		Shri Guruprasad Bharat Gas Agency Koppal	BPC	9945131388
2		KFCSC Bharat Gas Agency Koppal	BPC	9902269204
3		Shri Nandi Bharat Gas Agency Koppal	BPC	9008901290
4	Koppal	Shri Panchamuki HP Gas Agency Ginigeri	HPC	9448632670
5		Shri C V Kurgod HP Gas Agency Alawandi	HPC	9901748072
6		Shri Ram HP Gas Agency Kinnal	HPC	9663768266
7		Shri Adishakti IOC Gas Agency Munirabad	IOC	9845457979
8		Shri Manoj Bharat Gas Agency Karatagi	BPC	9448183653
9	Gangavati	Shri Balaji HP Gas Agency Gangavati	HPC	9739007757
10	Gangavan	Shri Lakshmi HP Gas Agency Gangavati	HPC	9481984659
11		Shri Basavashree IOC Gas Agency Gangavati	IOC	9008313584
12		Shri Saimaharaj Bharat Gas Agency Kushtagi	BPC	9902299302
13	Kushtagi	Shri Amaresheara IOC Gas Agency Tawaragera	IOC	9620870744
14		Shri Annadaneshwara IOC Gas Agency Hanumasagar	IOC	9901301936
15		Shri Basavalingeshwara IOC Gas Agency Yelburga	IOC	9901435551
16	Yelburga	Shri Hosmani Bharat Gas Agency Yelburga	BPC	9742537705
17		Shri Apoorva Bharat Gas Agency Yelburga	BPC	7795766456

# Contact Details of Veterinary Department Officials in Koppal District

S1 No	Name of the Dist/Taluka/Village	Name of the Officer	Designation	Mobile Number	Land Line
1	DD OFFICE	Dr.Basayya Sali	Deputy Director (i/c)	9449641224	08539- 221408
2	DD, Policlinic	Dr.Yamanappa B.H	Deputy Director (i/c)	9845892056	08539- 222669
3	AD Sheep Board Koppal	Dr.Yamanappa B.H	Assistant Director	9845892056	08539- 222669
4	V.H. KOPPAL	Dr.Shivaraj Shetter	Assistant Director	9902135800	08539- 220023
5	P.V.C.CHIKKABOMMA NAL	Dr.Shivaraj Shetter	Assistant Director (i/c)	9902135800	
6	V.D.BETAGERI	Dr.Nishanth.C	Veterinary Officer (i/c)	9380528128	
7	V.D.MUDDABALLI	Dr.Vinay Kumar Angadi	Veterinary Officer	6364173746	
8	V.D. HULAGI	Dr.Sunil Kumar Patil	Veterinary Officer	9741653200	
9	V.D. BANDIHARLAPURA	Dr. Shivakumar Agre	Veterinary Officer	9164496996	
10	V.D. KAVALUR	Dr.Nishanth.C	Veterinary Officer (i/c)	9380528128	
11	V.D.HALAGERI	Dr.Pruthvi raj	Veterinary Officer	9980343526	
12	V.H.ALAWANDI	Dr.Nishanth.C	Veterinary Officer (i/c)	9380528128	
13	V.D. HIRESINDOGI	Dr.Vinod kumar Divater	Veterinary Officer	9886934138	

14	V.D.BISARAHALLI Dr.Vinod kumar Divater (i/c)		Veterinary Officer	9886934138	
15	V.D. KATARAKI GUDLANUR	Dr.Vinod kumar Divater (i/c)	Veterinary Officer	9886934138	
16	V.D. HATTI	Dr.Nishanth.C	Veterinary Officer (i/c)	9380528128	
17	V.D. KINNAL	Dr.Vinay Kumar Angadi (i/c)	Veterinary Officer	6364173746	
18	V.D. IRAKALAGADA	Dr.Vinod kumar Divater (i/c)	Veterinary Officer	9886934138	
19	V.D. INDRAGI	Dr. Shivakumar Agre (i/c)	Veterinary Officer	9164496996	
20	V.D. HITNAL	Dr.Sunil Kumar Patil (i/c)	Veterinary Officer	9741653200	
Gan	avathi Tq				
1	V.H. GANAGAVATHI	Dr.P.M.Mallayya	Assistant Director (i/c)	9972709497	08533- 271324
2	P.V.C. CHIKKABENAKAL	Dr.P.M.Mallayya	Assistant Director (i/c)	9972709497	
3	V.H. KANAKAGIRI	Dr.Arun Guru	Veterinary Officer (i/c)	9591637222	
4	V.H. KARATAGI	Dr.Zakeer Hussain	Veterinary Officer (i/c)	8660046252	
5	V,H,NAVALI	Dr.Channaveerappa	Veterinary Officer (i/c) 8151965722		
6	V.H.SIDDAPURA	SIDDAPURA Dr.Zakeer Hussain		Veterinary Officer 8660046252	
7	V.H.VENKATAGIRI	Dr. Somappa A	Veterinary Officer	9845635656	
8	V.H.HULIHAIDAR	V.H.HULIHAIDAR Dr.P.M.Mallayya		9972709497	
9	V.D. HEROOR	Dr.Mahesh kumar	Veterinary Officer (i/c)	8762908511	
10	V.D. HOSAKERA	Dr.Mahesh kumar	Veterinary Officer	8762908511	
11	V.D.SANGAPURA	Dr.Arun Guru	Veterinary Officer	9591637222	
12	V.D.BASANAVANNAC AMP	D.BASANAVANNAC Dr.Mahendra Veterina		7022274546	
13	V.D.MUSALAPURA	Dr.Kavya.V	Veterinary Officer	9739695130	
14	V.D. DHANAPUR	Dr.Dhanush.V	Veterinary Officer	8904432016	
15	V.D.SHRIRAMANAGAR A	Dr.Channabasappa.Hallad	Veterinary Officer	9986243808	
16	P.V.C. SINGANAL	Dr.Channabasappa.Hallad	Veterinary Officer (i/c)	9986243808	
17	V.D.CHIKKADANKANA KAL	Dr.Channaveerappa	Veterinary Officer	8151965722	
18	V.D.BHUDAGUMPA	Dr.Aadarsh.N	Veterinary Officer (i/c) 9740294142		
19	V.D.YARADONA	Dr.Aadarsh.N	Veterinary Officer	9740294142	
20	V.D.BENNUR	Dr.Laxman Naik	Veterinary Officer	8951500721	

Sl No	Name of the Dist/Taluka/Village	Name of the Officer	Designation	Mobile Number	Land Line			
Kust	Kustagi Tq							
1	V.H. KUSTAGI	Dr.Channabasappa.Hallad	Assistant Director (i/c)	9986243808	08536-267104			
2	P.V.C, MUDENUR	Dr.Channabasappa.Hallad	Assistant Director (i/c)	9986243808				
3	P.V.C, NAVALAHALLI	Dr.Channabasappa.Hallad	Assistant Director (i/c)	9986243808				
4	P.V.C, KALAMALLI	Dr.Channabasappa.Hallad	Assistant Director (i/c)	9986243808				
5	P.V.C, JUMLAPURA	Dr.Channabasappa.Hallad	Assistant Director (i/c)	9986243808				
6	P.V.C, CHALAGERA	Dr.Channabasappa.Hallad	Assistant Director (i/c)	9986243808				

7	V.H.	Dr.Channabasappa.Hallad	Veterinary Officer (i/c)	9986243808	
8	HANASAMASAGAR	Dr.Channabasappa.Hallad	Veterinary Officer (i/c)	9986243808	
9	P.V.C. HOOLAGERA	Dr.Channabasappa.Hallad	Assistant Director (i/c)	9986243808	
	V.D. KABBARAGI	Dr. Siddalingayya Sankin	Veterinary Officer (i/c)	9481254254	
10	V.D.NILOGAL	0.11			
11	V.D.HIREMANNAPURA	Dr. Siddalingayya Sankin	Veterinary Officer	9481254254	
12	V.D.KORADAKERA	Dr. Santhosh Kudari	Veterinary Officer (i/c)	9110203682	
13	V.D.HANUMANALA	Dr. Siddalingayya Sankin	Veterinary Officer (i/c)	9481254254	
14	V.D.TAVARAGERA	Dr. Siddalingayya Sankin	Veterinary Officer (i/c)	9481254254	
15	V.D.DOTIHAL	Dr. Santhosh Kudari	Veterinary Officer (i/c)	9110203682	
16	V.D. SANGANAL	Dr.Channabasappa.Hallad	Veterinary Officer (i/c)	9986243808	
17	V.D. MALAGITHI	DR. Pallavi	Veterinary Officer	7259437423	
Yelb	urga Tq				
1	V.H. YALBURGA	Dr.Ravikumar	Assistant Director	9449528395	08534- 220457
2	V.H.KUKANUR	Dr.Suresh saraganachar	Veterinary Officer (i/c)	9886265167	
3	V.D. MANDALAGERI	Dr.Suresh saraganachar	Veterinary Officer (i/c)	9886265167	
4	P.V.C. BINNAL	Dr.Suresh saraganachar	Veterinary Officer (i/c)	9886265168	
5	V.D. BEVOOR	Dr.Prakash Choori	Veterinary Officer	9880490872	
6	V.D.ITAGI	Dr.Suresh saraganachar	Veterinary Officer	9886265167	
7	V.D. TALAKAL	Dr.Venkobappa Tikare	Veterinary Officer	9739694974	
8	V.D. BALOTAGI	Dr.Vinod Kumar.G	Veterinary Officer	9035309968	
9	V.H.MANGALORE	Dr.Venkobappa Tikare	Veterinary Officer (i/c)	9739694974	
10	V.H.HIREVANKALKUN TAKA	Dr.Prakash Choori	Veterinary Officer (i/c)	9880490872	
11	V.D. HUNASIHALA	Dr.Prakash Choori	Veterinary Officer (i/c)	9880490872	
12	V.D. HIREMYAGERI	Dr.Vinod Kumar.G	Veterinary Officer (i/c)	9035309968	
13	.D. CHIKKAMYAGERI	Dr.Venkobappa Tikare	Veterinary Officer (i/c)	9739694974	
14	V.D. BANDI	Dr.Vinod Kumar.G	Veterinary Officer (i/c)	9035309968	
15	V.D. BANNIKOPPA	Dr. Harshavardhan	Veterinary Officer	8095134144	
16	V.D.BALAGERI	Dr.Suresh saraganachar	Veterinary Officer (i/c)	9886265167	
17	V.D. MUDHOL	Dr.Vinod Kumar.G	Veterinary Officer (i/c)	9035309968	
18	V.D. BENAKAL	Dr.Suresh saraganachar	Veterinary Officer (i/c)	9886265168	
19	V.D. THONDIHAL	Dr.Ravikumar	Assistant Director (i/c)	9449528395	
20	V.D. SHIRUR	Dr.Venkobappa Tikare	Veterinary Officer (i/c)	9739694974	
20	V.D. YADDONI	Dr.Prakash Choori	Veterinary Officer (i/c)	9880490872	

# Contact Details Of NDRF Officers

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Shri J K S Rawat ( DiG)	Directorate General, National Disaster Response Force (NDRF) Sector-1 R K Puram, New Delhi 66	011- 26105910 011- 26260369	011- 26105912	09968262466	rawatiks_k562@rediffmail.com
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#### NDRF BNS

Name	Address	Tele.	Fax	Mobile	E-mail.
Sh. A.K.Singh Commandant	Ist BN NDRF, Paigaon PO- Azara, Guwahati	0361- 2840027	0361- 2840284	09435545951	ndrf01@yahoo.ocm.in ndrf01@hotmail.com
Sh. Sukhdev Raj Commandant	2nd BN NDRF Digberia Camp, PO-Badu Road, Madhyamgram,Barasat Kolkata-700128	(133- 25264302, (133- 25264394	033- 25263077	09434742836	<u>comdt106</u> bif.nic.in, bnndrf106@rediffmail.com 2ndndrf@gmail.com
Sh. M.K.Yaday Commandant	3rd BN NDRF, PO-Mundali, Cuttack-Odisha	0671- 2879710	0671- 2879710	09439103170 09437964571	bu-4th@cisf.gov.in. 3rdndrfmundali⊕gmail.co <u>m</u>
Sh.M K Verma Commundant	4th Bn NDRF, PO-Surak sha Campus, Arrakonam,Distt. Vellore, Tamilnadu	04177- 246269	04177- 246594	08903687065, 09442105169	rb-6th@cisf.gov.in
Sh.Alok Avasthy Commandant	5th Bn NDRF, PÓ- Víshnupuri, Telegaon, Pune(Maharashtra)	02114- 231245	02114- 231509	09423506765	145crpf@gmail.com
Sh.R.S.Joon Commandant	6th Bn NDRF, Chilora Road, Gandhinagar, Pin-382042	079- 23202540	079- 23201551	09428826445	<u>comdi6ndrf@gmail.com</u>
Sh.Jaideep Singh Commandant	7th Bn NDRF, Bibiwala Road, Bhatinda(Punjab)	0164- 2246030	0164- 2246570	09417802032	comdt.27thbn@ithp.gov.in, 7thbnndr?bathinda@gmail.c om
Sh.Jaipal Yadav Commandant	Sth Bn NDRF. Greater Noida Dist. G.B. Nagar, UP	0120- 2766013	0120- 2766618	.09968610011	eighthmdrf@yahoo.com, jpyaday 196048yahoo.com
Sh.S.S.Guleria Commandant	9th Bn NDRF, Bihati Patna, Bihar	06115- 253942	06113- 253939	08956909490	ndrfpatna@gmail.com. ndrfpatna@yaboo.com
Sh.Parshant Dhar Commandant	10th Bn NDRF, Malkangiri, Vijaywara(AP)	09419217790	01955- 252646	09419217790	Commandant125@rediffma it com

## CHAPTER-11

## **MAPS OF KOPPAL DISTRICT**

