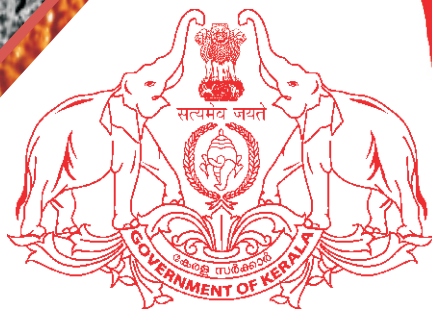


# District Disaster Management Plan Ernakulam 2015



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Ernakulam

District Disaster Management Plan, 2015

# Ernakulam District Disaster Management Plan

**2015**

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*Towards a Safer State...*

# District Disaster Management Plan 2015

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## INTRODUCTION

### 1.1 VISION

A safer community that effectuate a pragmatic and holistic mechanism to prevent, mitigate and respond to any event of disaster and consistently advance in all aspects of disaster risk reduction.

### 1.2 MISSION

Develop and establish a structurally and functionally competent administrative unit at District and taluk levels, cognizant and adept in disaster management activities, which is prepared to minimize the devastating effects of a disaster, whether natural or human induced, and capable of appropriate timely deliverance of services upon an emergency.

### 1.3 POLICY

The Kerala State Disaster Management Policy, 2010 vide G.O (MS) No. 240/2010/DMD dated 19-06-2010 has laid down the guiding principles for the District Disaster Management Plan. The policy aims to foster a culture of prevention, mitigation and preparedness from the grass root levels of the District administration.

### 1.4 OBJECTIVES OF THE PLAN

The primary objective of the District Disaster Management Plan (DDMP) is to be an instrument to implement the responsibilities assigned to DDMA in section 30(1) and (2) of DM act, 2005 and section 14 of KSDMA rules, 2007. In accordance with the guidelines in section 31(3) of DM act, the district plan aims to include

- a) the areas in the district vulnerable to different forms of disasters;
- b) the measures to be taken prevention and mitigation of disaster, by the departments of the government at the district level and local authorities in the district;
- c) the capacity- building and preparedness measures required to be taken by the departments of the governments at the district level and the local authorities in the district to respond to any threatening disaster situation or disaster;
- d) the response plans and procedures, in the event of a disaster, providing for
  - i. *allocation of responsibilities to the departments of the government at the district level and the local authorities in the district;*
  - ii. *Prompt response to disaster and relief thereof;*
  - iii. *Procurement of essential resources;*
  - iv. *Establishment of communication links; and*
  - v. *the dissemination of information to the public;*

## 1.5 SCOPE OF THE PLAN

District disaster management plan abides by and integrates the directions of National DM Act 2005, the State DM Act 2007, the State DM Policy 2010, rules, regulations and other significant guidelines.

- The plan provides a necessary framework for the District administration to facilitate, coordinate and monitor disaster management tasks by mobilizing the resources and taking the expertise of relevant Governmental departments at central and state level, local self-governments, private sector, non-governmental organizations and community in every phase of disaster management.
- This plan is consistently operational at all levels of management within the geographical and jurisdictional limits of the District administration.
- This plan is pertinent to the prevention of hazards, mitigation, preparedness, response and recovery from disasters listed in section 7 of State DM Policy 2010 and other events recognized as hazards or disasters by the State Executive Committee or the State Disaster Management Authority from time to time.

## 1.6 AUTHORITY & REFERENCE

The DDMA has the authority to conceive, test and implement a District Disaster Management Plan in accordance with the section 30 (2) I, ii & iii of the DM act 2005.

Kerala is a multi hazard prone state. All the natural & human induced hazards in the Ernakulam District has been identified and integrated with District Disaster Management Plan(DDMP). These hazards can create potential damages to human which may also cause loss of life or injury, property damage, social & economic disruption or environmental degradation. In the event of occurrence of any such situation or condition in Ernakulam District, the District Collector, inter alia the chairman of the District Disaster Management Authority (DDMA), has the authority to exercise all of the the powers or any of the powers vested upon on him for disaster preparedness / mitigation / or any such other activities as per the DM ACT 2005

The acts, rules, policy for disaster risk reduction in the District and regulations relating to the implementation of this plan are as given below:

**TABLE 1: ACTS, RULES, POLICY FOR DISASTER RISK REDUCTION IN THE DISTRICT**

Sl. No.	Acts/Rules
1.	National Disaster Management Act, 2005
2.	Kerala State Disaster Management rules: Ex Extraordinary Gazette S.R.O No. 201/2007 dated 1 March 2007
3.	State DM policy, GO (Ms) No. 240/2010/DMD dated 19-06-2010
4.	Dangerous Machine (Regulation) Act, 1983



## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

5.	The Environment Protection Act, 1986
6.	Kerala Factories (Major Accident Hazard Control) Rules, 2005
7.	Dangerous Machines (Regulation) Rules, 2011
8.	The Environment (Protection) Rules 1986
9.	The Manufacture, Storage and Import of hazardous Chemicals Rules, 1989
10.	The Chemical Accidents (Emergency Planning Preparedness and Response) Rules 1996
11.	The Boilers Act, 1923
12.	The Mines Act, 1952
13.	The Mines Rescue Rules, 1985
14.	The Petroleum Act, 1934
15.	Indian Standard Code of Practice for Protection of buildings and allied structures against lightning

### 1.7 PLAN DEVELOPMENT

As per section 30 (2) (i) of the National DM Act and State DM policy, 2010, the District shall prepare a Disaster Management Plan including District Response Plan for the District with respect to the guidelines issued by the National and State Authority respectively. The District administration shall coordinate and monitor the implementation of the National Policy, State Policy, National Plan, State Plan and District Plan.

The State Executive Committee of KSDMA in its meeting held on 14<sup>th</sup> June 2013 has authorized the State Emergency Operations Centre (SEOC) of SDMA to revise the District Disaster Management Plans and the State Disaster Management Plan within 2 years starting January 2014. Besides SEOC prepared a template and the Principal Secretary, Revenue and Disaster Management has circulated the template to the nodal departments for the formulation of departmental plans.

### 1.8 PLAN REVIEW & UPDATING

DDMP consists of two major components, they being:

- dynamic component and
- stable component

The stable component encompasses the guidelines laid down by the national, state acts, rules and shall be revised once in 5 years by SDMA whereas, the dynamic component comprises of elements that are subject to constant change and thus should be revised once in two years or as determined by the DDMA, SEC or SDMA. Although, DDMA has the authority to decide on the regularity of review and revision of DDMP, plan review should mandatorily be conducted in the

aftermath of any declared disaster within the District or neighbouring districts and modifications should be made accordingly. The DDMP may be reviewed preferably in February and updated in April; update of the plan should be based on inputs gained through:

- a) Mock drills
- b) Recommendations from all Departments in the DDMA meetings
- c) Past disaster experiences
- d) Directions issued by SEC, SDMA or the Government

**HAZARD, VULNERABILITY AND RISK ASSESSMENT**

**TABLE 2: DISTRICT PROFILE AT A GLANCE**

Head quarters	Ernakulam
Location of the Headquarters)	Latitude : 9°57' N; Longitude 76 °15' E
Total area(district)	3993.5 Sq. Km.
District boundaries	North -Thrissur District, East – Idukki District, West – Arabian Sea, South – Kottayam & Alappuzha Districts

**TABLE 3: ADMINISTRATIVE DIVISIONS OF THE DISTRICT**

Divisions	No.
Revenue divisions	2
Taluks	7
Blocks	15
Villages	117
District Panchayaths	1
Gram Panchayaths	88
Municipalities	8
Corporations	1

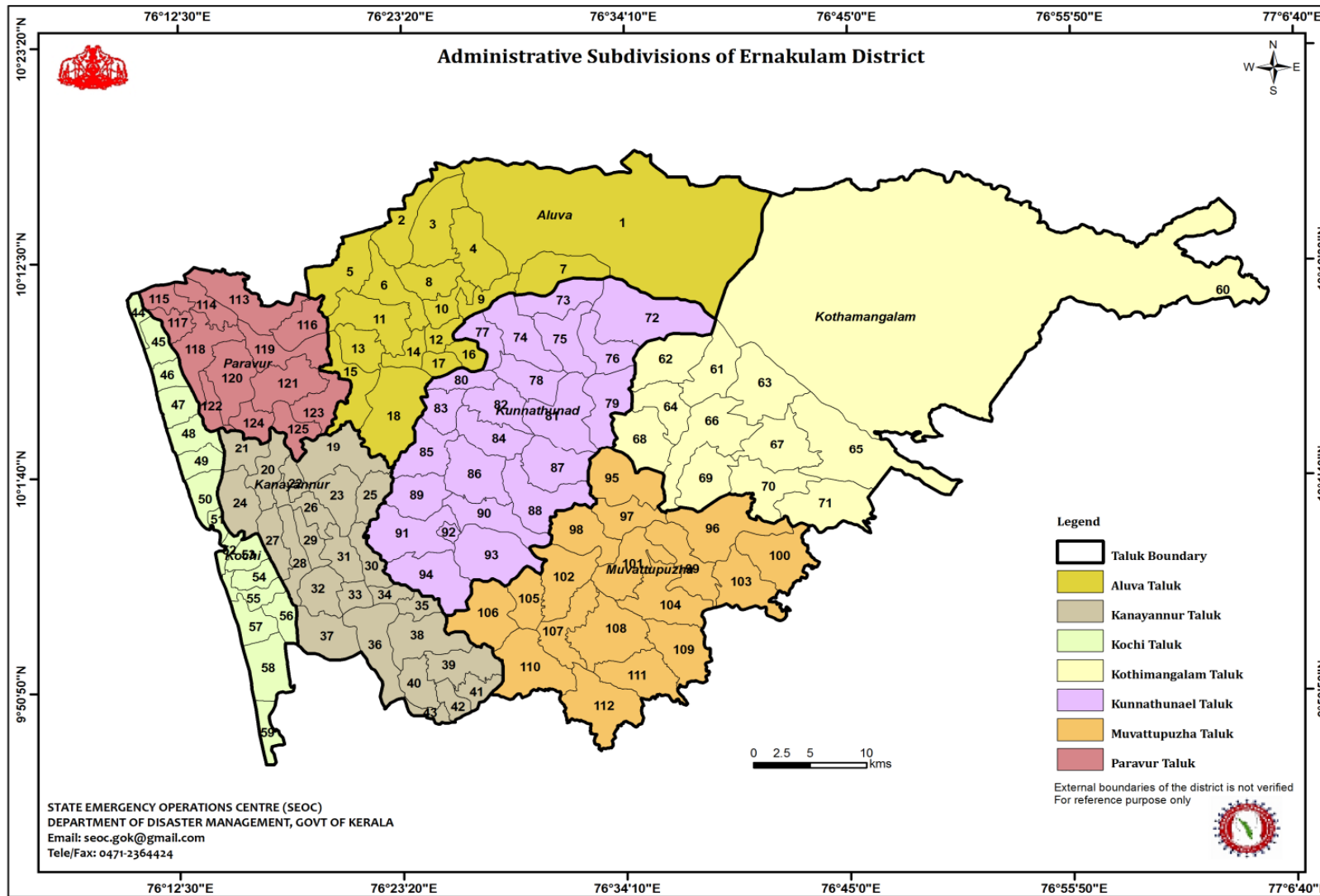
**TABLE 4: GEOGRAPHY AND TOPOGRAPHY OF THE DISTRICT**

Major Rivers	Periyar and Muvattupuzha
Lakes	VembanaduKayal, KodungalloorKayal and Varappuzhakayal
Reservoirs	Idamalayar And Bhoothathankettu
Coastline (length in Kms)	46 Kms
Forest	823.8302 Km <sup>2</sup>
Wetland area	25065 Ha
Cultivable Area	40036 Ha
Barren & uncultivable land	503Ha

**TABLE 5: AVERAGE RAINFALL, TEMPERATURE AND HUMIDITY DATA (2009-2013)**

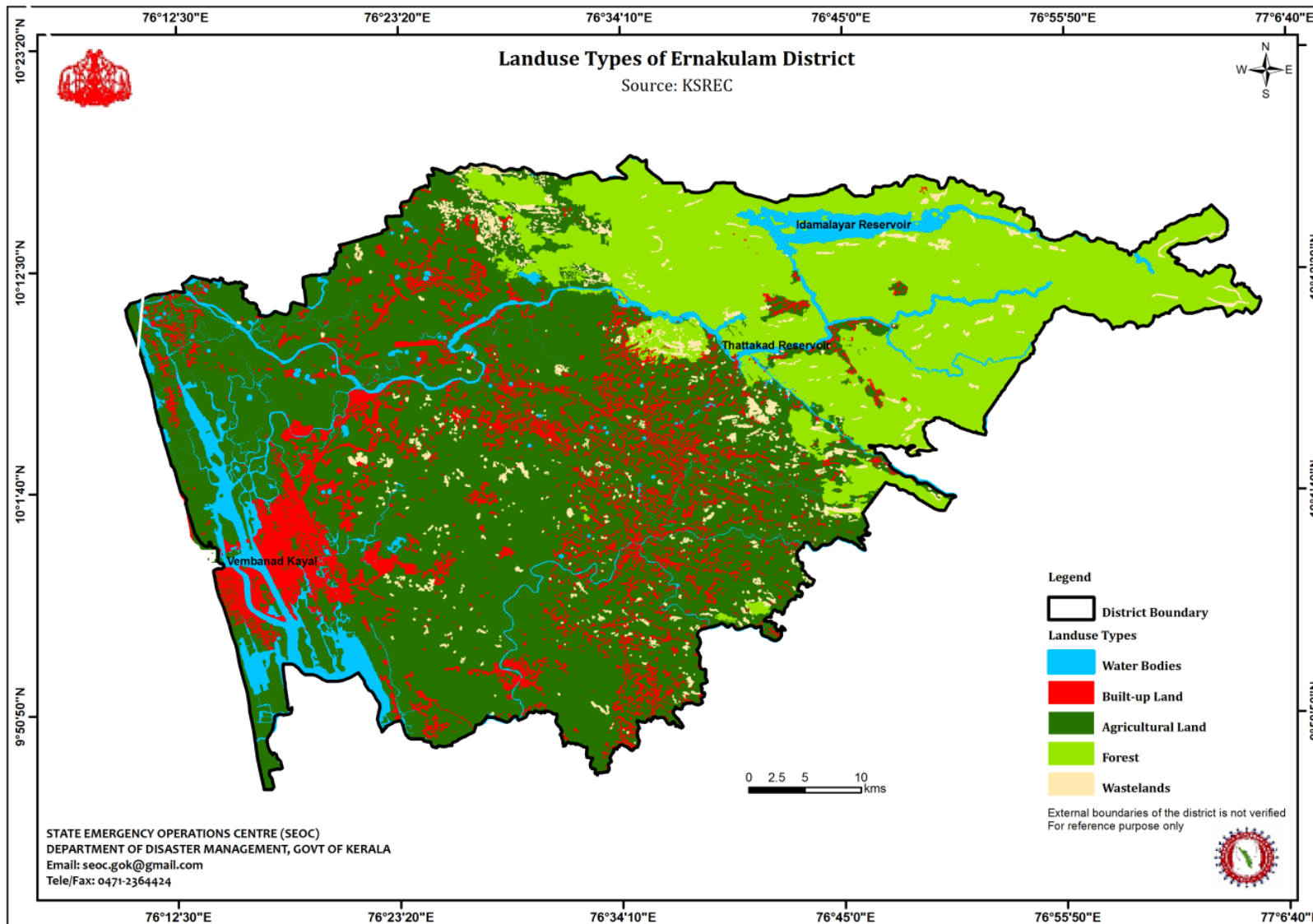
Weather												
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainfall	26.4	98.2	37.3	147.0	241.0	897.3	843.4	406.8	101.9	447.5	390.0	20
Temp.	31.4	31.8	32.4	32.7	31.7	29.7	28.9	29.0	29.6	30.2	30.9	31.3
Hum.	73.0	76.0	75.0	77.0	82.0	89.0	91.0	89.0	86.0	84.0	81.0	75.0

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



**FIGURE 1: ADMINISTRATIVE SUBDIVISIONS OF ERNAKULAM DISTRICT (ANNEXURE 17)**

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



**FIGURE 2: LANDUSE TYPES OF ERNAKULAM DISTRICT**

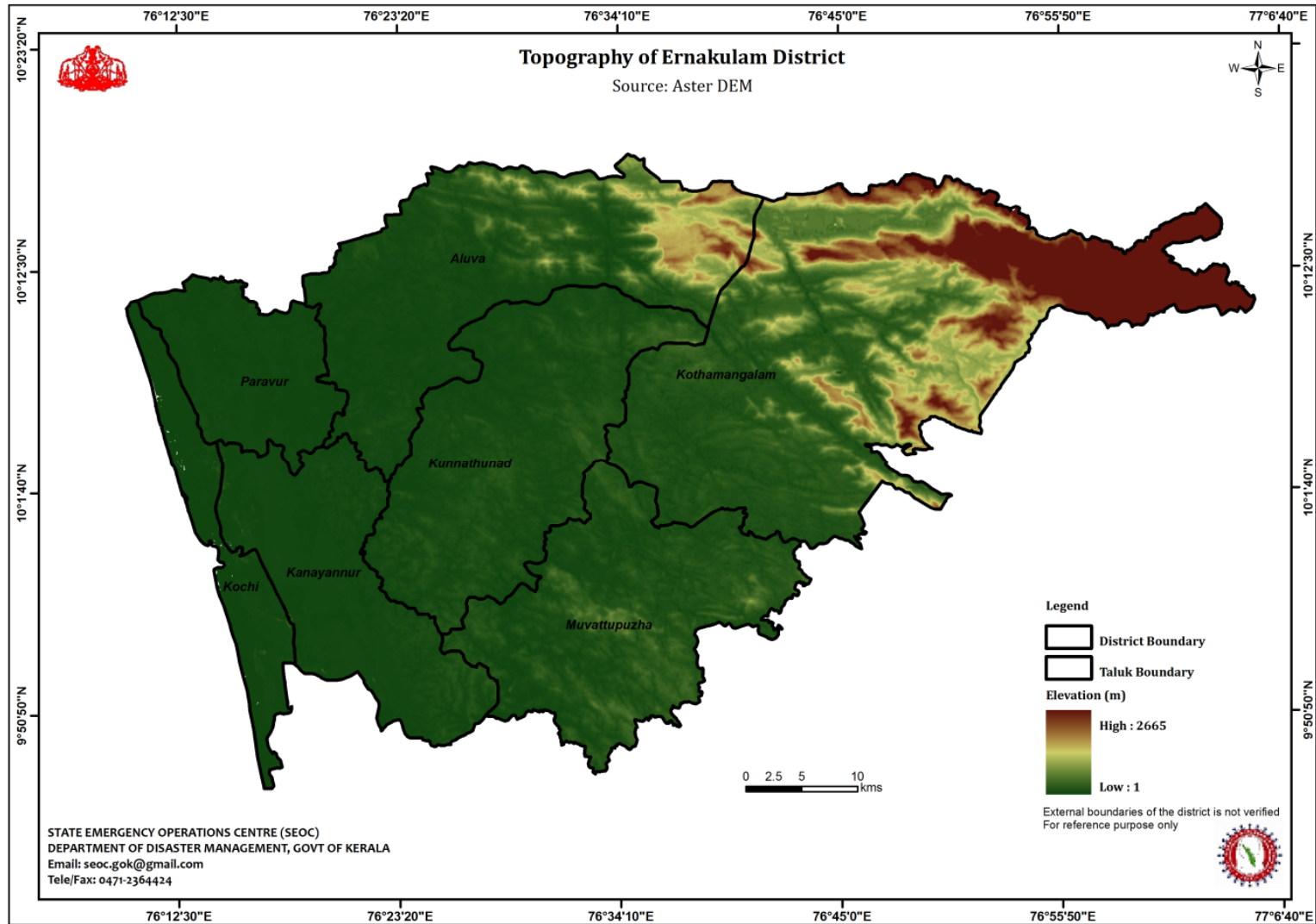


FIGURE 3: TOPOGRAPHY OF ERNAKULAM DISTRICT

**TABLE 6: DISTRICT DEMOGRAPHY (CENSUS DATA 2011)**

<b>Demography</b>			
<b>Total population</b>	32,82,388		
<b>Male</b>	16,19,557		
<b>Female</b>	16,62,831		
<b>Sex ratio</b>	1,028		
<b>Age group population (0-6 years)</b>	3,04,242		
<b>Population density</b>	1,072		
<b>Rural Population</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
	10,48,025	5,18,510	5,29,515
<b>Urban Population</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
	22,34,363	11,01,047	11,33,316
<b>Decadal growth rate</b>	5.60		
<b>Average Literacy rate</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
	95.68	97.14	94.27

**TABLE 7: EDUCATION PROFILE OF THE DISTRICT**

<b>Institution</b>	<b>Total numbers</b>	<b>Further details</b>
Lower Primary	472	Annexure 1(a)
Upper Primary	207	
High Schools	317	
Higher Secondary	180	
Vocational H.S	34	
Technical High Schools	4	
University	3	
Arts , Science college	56	
Poly Technics	4	
Engineering College	15	
Medical College	3	Annexure 1(b)
Others (Special Schools)	4	

**TABLE 8: AGRICULTURAL PRODUCTIVITY OF THE DISTRICT**

<b>Crops</b>	<b>Type</b>	<b>Area(in Ha)</b>	<b>Productivity (in tonnes)</b>
<b>Staple crops</b>	Paddy	500	2.5 T/Ha
<b>Vegetable</b>	-	1177.67	12429.971 T
<b>Plantation crops</b>	Rubber	93770	93770 T
<b>Oil seeds</b>	Coconut	44475	235 Million
<b>Spices</b>	-	11532	6259 T

**TABLE 9: ANIMAL HUSBANDRY**

Animal Husbandry	
Livestock population	Cattle-107991, Buffaloes-13002,Goat-125147,Pig-5723
Milk production	210 Tonnes
Meat production	Cattle meat-9054 tonnes,Buffalo meat-915 tonnes, Goat meat-1454 tonnes, Pig meat-1405 tonnes, Broiler meat-679 tonnes
Number of Cattle farms	350(No. of animals more than 5 numbers)
Poultry population	Poultry population-10,92,199, Egg production-1585 lakhs
Number of poultry farms	Broiler farms-133, Egger poultry farms-20, Duck farms-3
Fish production	113379 tonnes
Fishing boats	Not available/provided
Cattle camps	No permanent cattle camps in the district. Temporary camps are made during floods/rains

**TABLE 10: FESTIVALS AND TOURIST CENTRES OF THE DISTRICT**

Festivals	Places	Tourist centres	Places
Sivrathri	AluvaManappuram	Marine Drive	Kochi
Malayattoor Church	Malayattoor	Chinese Fishing nets	Fort Kochin
Athachamayam	Thripunithura	Bolgatty Island	
KanjiramatomNercha	Kanjiramattom	Malayattoor Church	
CheraiPooram	Cherai	Hill Palace	Thripunithura
Vallarpadathamma church	Vallarpadam	BhoothathanKettu	Kothamangalam

## 2.1 HAZARD PROFILE OF THE DISTRICT

### Disaster subcategory definitions:

- 1. Naturally Triggered/Weather related:** Events caused by short-lived/small to meso-scale atmospheric processes (in the spectrum from minutes to days)
- 2. Geological:** Events originating from solid earth
- 3. Biological:** Disaster caused by the exposure of living organisms to germs and toxic substances
- 4. Anthropogenically/Technologically triggered:** Disaster triggered by human intervene



TABLE 11: HAZARD PROFILE OF THE DISTRICT

Sl.No.	Classification	Types of Disaster
1.	Naturally Triggered/Weather Related	Flood
		Dam break due to exceedance of Probable Maximum Flood
		<b>Coastal</b>
		Tsunami
		Coastal erosion
		Kallakadal
		Storm surge
		Thunder and lightning
		Cyclone
		Drought
		Salt water intrusion
2.	Geological	Earthquakes
		Landslides
		Dam break due to earthquakes
3.	Biological	Epidemics
		Cattle epidemics
		Food poisoning
		Pest attack
4.	Anthropogenically/ Technologically triggered	Industrial explosions
		Petro-chemical transportation accidents
		Oil spill
		Dam break due to structural weakness
		Fireworks accidents
		Road accidents
		Human triggered forest fire
		Stampede
		Short circuit and related fire
		Building collapse
		Boat capsizing
		Tourism related drowning
		Air and rail accidents
		Hooch accident
		Terrorism

**2.2. THE RISK OF EACH HAZARD OVER THE DISTRICT**

**2.2.1 Flood**

Flood prone areas of the district is listed below. The Drainage Network Mapsof Ernakulam District are attached in **Annexure 28**

**TABLE 12: FLOOD PRONE AREAS OF THE DISTRICT**

<b>Hazard</b>	<b>Vulnerable area</b>	<b>Village</b>	<b>Taluk</b>	
<b>Flood</b>	VellaramKuthu, KuttiyamChal, Manikandan - Chal, Thangalam - Javahar Colony		Kothamangalam	
	Karukappilly		Kunnathunadu	
	Petta, Kayanadu	Maradi	Muvattupuzha	
	Chittethu Colony, Angal petty	Eranelloor		
	Madakkathanam, Piralimattam	Manjalloor Village		
	Chalikkadavu	Muvattupuzha		
	PiravomKadathukadavu, Pazhur Ulloorpadi, Kulamboor Matsya Colony, Puthusserikkavu, Pazhoor KMP bhagam, KakkadKadathukadavu, Aamakkattuparambu, Manimala, Mulakkulam	Piravom village		
	Kochangadi, Kalachanda, Ilahiya School colony, Anikkakudikadathi, Kuryan mala Thazhe, Kolumari, Valadithandu, Market Bustand, Homeoasupathri, EMS road , Valakkuzhithazhe, Ettangadi	Velloorkunnam Village	Muvattupuzha	
	Oorumana	Memhuri Village	Muvattupuzha	
	Kizhumuri		Ramamangalam Village	Muvattupuzha
			Nedumbaasseri, Parakkadavu, Chengamanadu, Aluva west,	Aluva
			Pallippuram	
	Cherayi			Cochin
	Munambam-velangannippallikkusameepam	Kuzhuppilly		
	Chathangadu- aniyilkadappuram	Edavanakkadu village		
Veeliyathamparambu, Puthenkadappuram	Nayarambalam			
aarattuvazhikadappuram	Njarakkal Village			

	ChappaKadappuram	Elangunnappuzha village	
	Light House	PuthuVyppuVillage	
	St John Padam	Fort Cochin	
	Soudi, MundanVeli	Rameswaram Village	
	Manassery, CheriyaKadavu	Palluruthi Village	
	Kandakkadavu, Kannamali	Kumbalangi Village	
	ThekkeChellanam, Malikapparamu, Kandekkadu, ThonduParambu	Chellanam	Paravoor
		PuthenVelikkara	
		Eloor	
		Kunnukara	
		Chendamangalam	
		Moothakunnam	
		Karumalloor	
	Kadungalloor		

### 2.2.2 Coastal erosion

The Ernakulam district possesses a coastal belt of 46 Kms and 12 coastal villages. About 69% coastal lines in Cochin taluk has been eroded (CESS, 2010). Hence, the whole coastal area can be considered as coastal erosion prone area. The list of coastal villages in the district is given below.

• Chellam	• Enamkunnupuzha
• Kumbalangi	• Njarakkal
• Palluruthy	• Nairambalam
• Thopumpady	• Edavannakkad
• Fort kochi	• Kuzhipally
• Puthuvipe	• Pallupuram

### 2.2.3 Thunder and Lighting

Occurrence of casualties during monsoon season has become a common issue in the district. Hence Ernakulam is considered as one of the thunder and lightning prone district of the state.

### 2.2.4 Cyclone

The district witnesses myriad of events of mild cyclone and associated destruction during monsoons, June – August (South west monsoon) and September – November (North east monsoon).

Occasional influence of cyclonic storm during the south west monsoon seasons thus creates another dimension to the district’s disaster profile.

### 2.2.5 Drought

The district experiences severe water shortage crisis for drinking and agricultural purposes when there is a decline in the rainfall intensity during March to June. The situation is becoming severe in the recent years.

### 2.2.6 Earthquakes

Kerala has been placed in zone III, where the maximum expected intensity is 5.6 M. Ernakulam district which falls under the low lying terrain has high probability of occurrence of earthquake which is anticipated due to the rising building construction activities in the area.

### 2.2.7 Landslides

In Kerala, landslides commonly occur in localised areas of the Western Ghats region where the slope is steep and the soil is over saturated as a result of prolonged rainfall.

Past studies reveal that the Ernakulam district is susceptible to landslides especially areas under Kothamangalam and Aluva taluks. Studies portray that most of the events of landslides are triggered by heavy rainfall. Table 11 depicts the affected areas in the district.

**TABLE 13: LANDSLIDE VULNERABILITY OF ERNAKULAM DISTRICT**

Hazard	Vulnerable area	Taluk
Land Slide, Mud flow	NeryaMangalam , Kuttampuzha, Kadavoor	Kothamangalam
	Ayyampuzha, Malayyattur	Aluva

### 2.2.8 Dam bursts

The District is enriched with plenty of water resources having dams namely Idamalayar and Bhoothankkettu. Safety of the dams has to be ensured as dam failure due to earthquakes is anticipated.

### 2.2.9 Epidemics

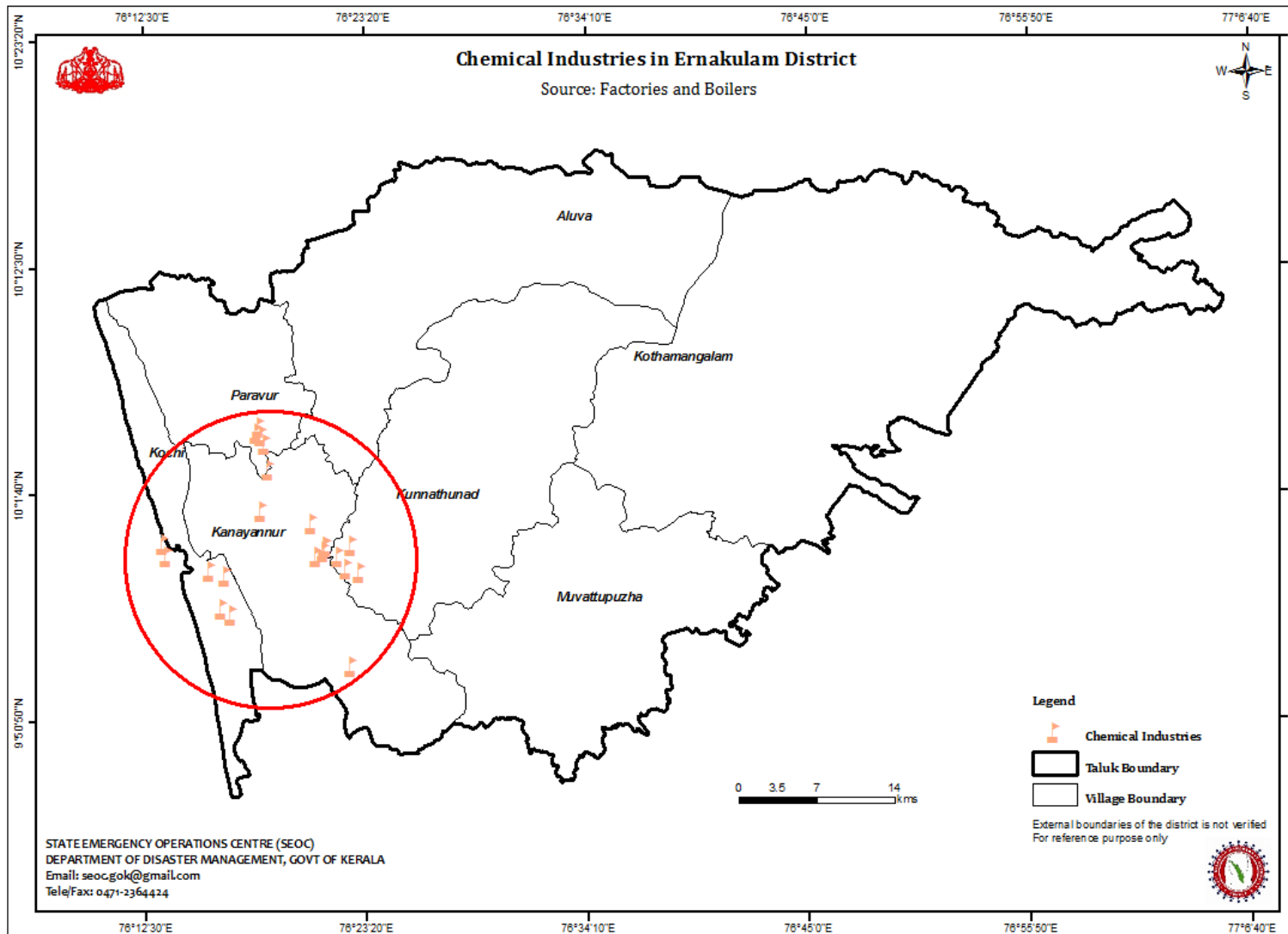
Water logging is one of the serious issues which make the district highly vulnerable to epidemics like viral fever, leptospirosis, dengue, chikungunya etc. The migration from other areas of the nation may also increase the situation worse. The mosquito menace is another scenario which accelerates the number of vector born disease victims in the district.

### 2.3 CHEMICAL & INDUSTRIAL DISASTER

The major industrial firms in the district are the Fertilizers and Chemicals Travancore, Indian Rare Earths, Hindustan Machine Tools, Appollo Tyres, Hindustan Insecticides, Forest Industries of Travancore, Travancore Cochin Chemicals, Cominco Binani Zinc, Cochin Shipyard, Cochin Refineries, The Brahmapuram Diesel plant and Pathalam Naphtha plant are in the District. Approximately 29,037 small scale industrial units are functioning in this district. So there is a wide possibility of occurrence of chemical disasters. The major chemical industries of the district Ernakulam are already identified and are plotted in map (**Figure 2.4**). **List of factories are provided in Annexure 18.**

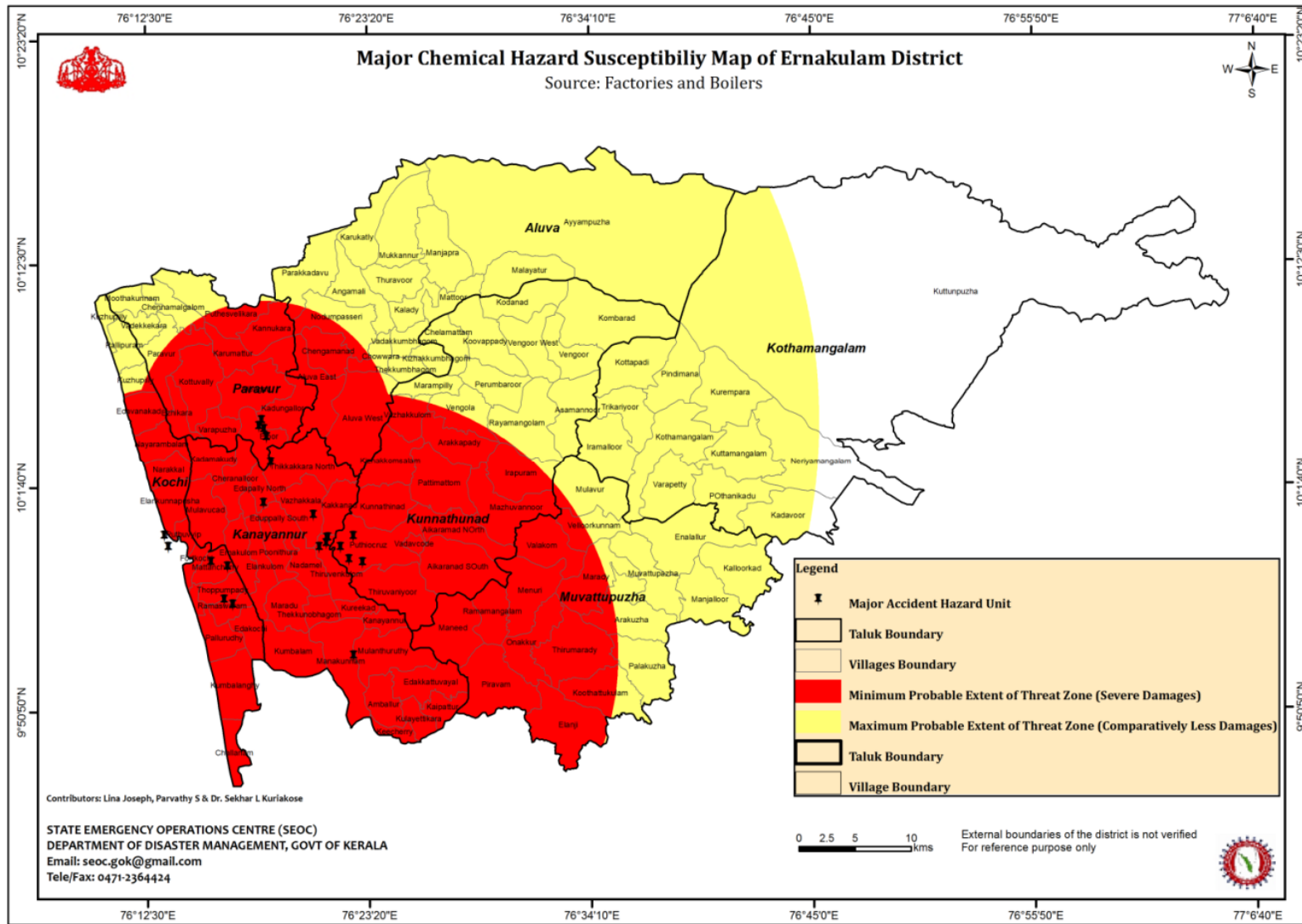
Maximum and Minimum Hazard threat zone area has been identified and mapped in Figure (5). Kanayannur, Kunnathunad, Paravur & Kochi are most chemical hazard susceptible taluks of Ernakulam district.

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



**FIGURE 4: CHEMICAL INDUSTRIES OF ERNAKULAM DISTRICT**

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



**FIGURE 5: MAJOR CHEMICAL HAZARD SUSCEPTIBILITY MAP OF ERNAKULAM DISTRICT**

### 2.3.1 Oil Spill

Cochin Port is a major port on the Arabian Sea – Indian Ocean sea-route and is one of the largest ports in India. The oil transportation over the sea is high in the district and there is possibility of oil spill disasters in the district. The consequences out of oil spill is so intense that it can adversely affect harbours, fisheries, tourists, and industrial plants etc. which ultimately cause serious impact to the local economy of the fisherfolk. Hence, advanced preparedness has to be taken to tackle oil spill issues.

### 2.3.2 Forest Fire

The district covers a forest area of 81.23 km<sup>2</sup> that comprise Malayattoor high range, northern and north eastern tip of the Muvattupzha and Kothamangalm taluks. Hence the susceptability of these areas to natural fires has to be foreseen.

### 2.3.3 Building Collapse

The causative factors for the collapse of major buildings are: firstly, unscientific construction of multistoried buildings and secondly, heavy rainfall and mild tremors.

### 2.3.4 Boat Capsizing

The ferry services for the transshipment of vehicles and passengers between the various islands are operated between Ernakulam and Vypin, and between Vypin and Fort Kochi. Backwaters cruises are one of the most important tourist activities in the city. The city is highly dependent on water transport which in a majority, lacks proper maintenance and emergency accessories like life jackets, rubber tubes etc. This unsecured travelling over the boats and ferries can lead to boat capsizing and casualties.

### 2.3.5 Air Rail Road accidents

Accidents over the road and rail are common in the District. Road network map of the District is attached in **Annexure 29**

### 2.3.6 Other Major issues has to be addressed by the District Administration

- **Tree falling accidents**
- **Storm Surge**
- **Salt Water Intrusion**
- **Terrorism**
- **Waste Management**
- **Electrical disasters**
- **Cattle epidemics**
- **Hooch**





**TABLE 16: DETAILS OF RESOURCE INVENTORY CAPACITY ANALYSIS**

<b>Capacity/Resources</b>	<b>Number/Details</b>		<b>Further Details</b>
<b>District EOC</b>	DEOC Ernakulam Collectorate. Control Room Ph.2423513 / 1077(Toll Free) Deputy Collector ( DM) Ph.8547610077, Collectorate Ph. 0484 - 2422282 / 2422294 FAX - 0484 -2422282 / 2424838		Details of equipments in DEOC&resources in annexure 2 (a)
<b>Nearest NDRF Unit</b>	4th Bn NDRF, PO-Suraksha Campus, Arrakonam, Distt. Vellore, Tamilnadu. 04177-246269. Fax 04177-246594 rb_6th@cisf.gov.in tn04_ndrf@nic.in mkverma97@gmail.com		
<b>Nearest IMD regional office</b>	India Meteorological Department,Thiruvananthapuram Fax.0471 232242/232294		Ph. 0471-232214/2321253 Fax.0471 232242/232294
<b>Nearest navy headquarters</b>	Flag office commanding Southern Naval Command, Naval Base Kochi-682004 Ph.0484-2872046		Joint Operation Centre PH.0484-2668395 Maritime Operation Centre PH.0484-2668257 Diving officer Ph.0484-2872074
<b>Nearest army camp</b>	Ph. 04712352373 Fax. 04712353030		
<b>Nearest air force headquarters</b>	Ph.04712551361/04712551362 Fax.04712554908		
<b>PRI Representatives</b>	Panchayath	84	Contact number in annexure 3 (a) Contact number in annexure 3 (b)
	Block	14	
	Municipal town/Municipal corporation	11	
<b>HR trained in disaster management</b>	DDMA and Red Cross Society, Ernakulam has jointly formed a Red Cross Sena ( 40 trained members)		Details in annexure 4
<b>Railway Network</b>	Stations	17	
<b>Police force</b>	Human resource	Rural- 1639	Details in annexure 5(a-d)
	Vehicles	134	Details in annexure 5(e)
<b>Health care</b>	Hospitals(Govt)	9	Details of number of beds, specialists in annexure6(a-d)
	Number of doctors	1248	
	Number of Auxilliary Nursing Midwifes (ANMs)	427	

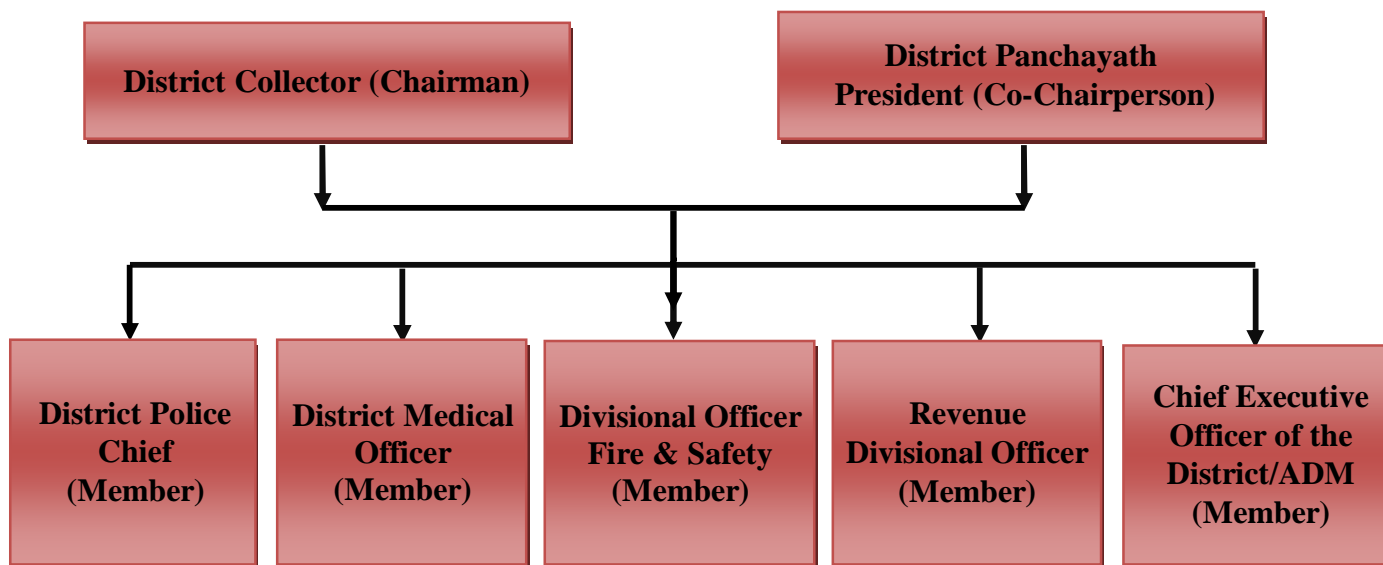
## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

	Primary health centres	76	
	Community health centres	23	
	Medical dispensaries	215	
	Ambulance	26	
	Number of asha workers	2683	
	Veterinary hospitals	95	
	Blood banks	3	Details in annexure6(e)
	Red cross offices	1	
<b>Rescue operations</b>	Human resource in fire and rescue department	359	Details of other equipment in annexure 7(a&b)
	Fire engines	23	
	Recovery vehicles	2	
<b>Communication</b>	BSNL Offices in the district	31	Details in annexure 8 (a)
	Other mobile networks	6	
	Visual media	12	Details in annexure 8(b)
	Dailies	29	
	Radio station	4	Details in annexure 8(c)
	HAM radio	34	Details in annexure 8(d)
<b>Hand Pumps</b>	280		-
<b>Ponds</b>	713		-
<b>Reservoirs</b>	2		-
<b>Bore Well</b>	403		
<b>Open wells</b>	1977		Details in annexure 9
<b>Tankers/Ponds</b>	1680		
<b>Groundwater observation wells</b>	64		Details of groundwater potential zones and observation wells in Annexure 9
<b>Public Distribution Shops</b>	1365		Details of location in Annexure 10
<b>NGOs</b>	86		Details of location, activities, contact in Annexure 11
<b>Total Number of industries</b>	256		Annexure 12
<b>Major plan projects in the district</b>	Internationally funded projects		Details of objective, duration in Annexure 13
	National level projects		
	State level projects	Kochi Metro Rail	

**INSTITUTIONAL ARRANGEMENTS**

**3.1. DISTRICT DISASTER MANAGEMENT AUTHORITY – ERNAKULAM**

District Disaster Management Authority, (Ernakulam) is a body constituted as per the National Disaster Management Act, 2005 at the District level to ensure effective management and response to any disaster. The DDMA Ernakulam has following structure:



**FIGURE 6: FLOW CHART OF THE STRUCTURE OF DDMA (ANNEXURE 14)**

All the natural & human induced hazards in the Ernakulam District has been identified and integrated with District Disaster Management Plan(DDMP). These hazards can create potential damages to human which may also cause loss of life or injury, property damage, social & economic disruption or environmental degradation. In the event of occurrence of any such situation or condition in Ernakulam District, the District Collector, inter alia the chairman of the District Disaster Management Authority (DDMA), has the authority to exercise all of the powers or any of the powers vested upon on him for disaster preparedness / mitigation / or any such other activities as per the DM ACT 2005.

As the major issues addressed by District Administration in heading no. 2.3.6, especially in the case of Tree falling accidents, the District Disaster Management Authority has the power to take such measures for prevention or mitigation of Disasters as per the Section 33 of DM Act 2005.

### 3.2. NODAL DEPARTMENTS FOR VARIOUS HAZARDS

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- ✚ Revenue & Disaster Management: Hydro-meteorological & geological disasters
- ✚ Home: Road & rail accidents
- ✚ Health & Family Welfare: Chemical, biological, radiological & nuclear disasters
- ✚ Factories & Boilers Dept., Dept. of Industries and the industry: Industrial accidents
- ✚ Agriculture: Pest attacks
- ✚ Animal Husbandry: Cattle epidemics
- ✚ Water resources: Dam break
- ✚ Public Works: Building collapse
- ✚ Forests: Forest Fire
- ✚ Airport: Air accidents

(Kerala SDM Policy, 2010)

### 3.3. POWERS & FUNCTIONS OF DDMA

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The DDMA shall establish a proper chain of command system for planning, coordinating and implementing schemes for effective management of disasters and organize the activities of all agencies responsible for disaster management in the District. The ICS will provide information on facilities, equipment, personnel, procedures and communications operating within a common organizational structure, DDMA has the authority to make any necessary institutional arrangements, assign responsibilities and modify any existing administrative mechanism or procedure to effectively accomplish the specified objectives pertinent to an incident

### 3.4. POWERS AND FUNCTIONS OF DISTRICT AUTHORITY

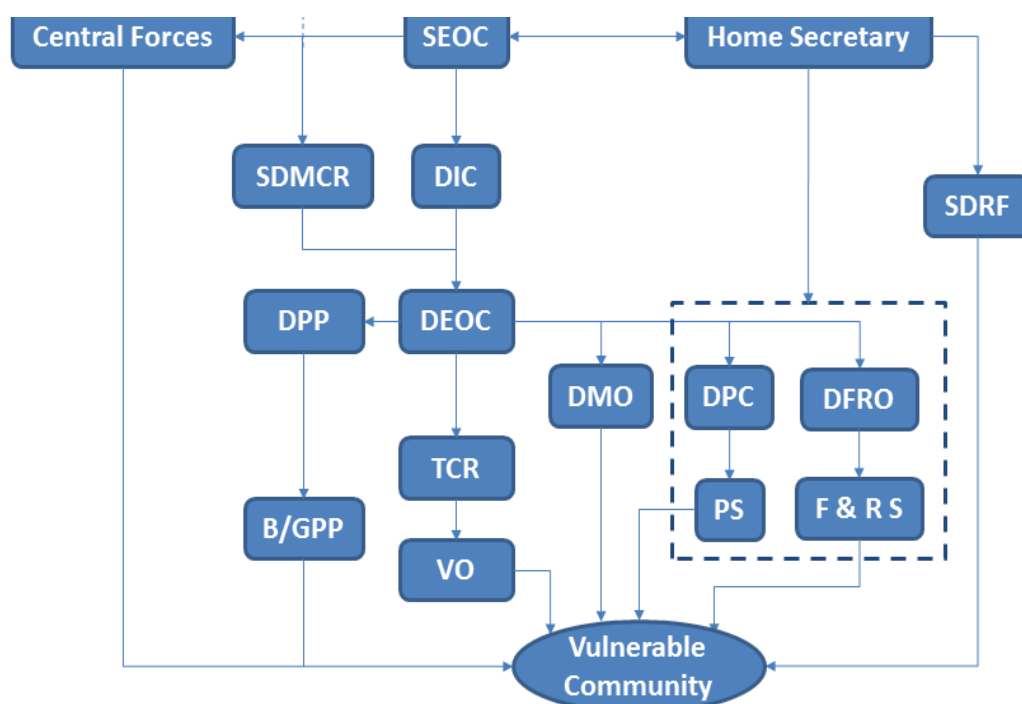
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- (1) The District Authority shall act as the district Planning, coordinating and implementing body for disaster management and take all measures for the purposes of disaster management in the district in accordance with the guidelines laid down by the National Authority and the State Authority.
- (2) Without prejudice to the generality of the provisions of subsection, the District Authority may-
  - i. Prepare a disaster management plan including district response plan for the district;
  - ii. Coordinate and monitor the implementation of the National Policy, State Policy, National Plan, State Plan and District Plan;
  - iii. Ensure that the areas in the district vulnerable to disasters are identified and measures for the prevention of disasters and the mitigation of its effects are undertaken by the departments of the Government at the district level as well as by the local authorities;
  - iv. Ensure that the guidelines for prevention of disasters, mitigation of its effects, preparedness and response measures as laid down by the National Authority and the

- State Authority are followed by all departments of the Government at the district level and the local authorities in the district;
- v. Give directions to different authorities at the district level and local authorities to take such other measures for the prevention or mitigation of disasters as may be necessary
  - vi. Lay down guidelines for prevention of disaster management plans by
  - vii. The department of the Government at the districts level and local Authorities in the district;
  - viii. Monitor the implementation of disaster management plans prepared by the Departments of the Government at the district level
  - ix. Lay down guidelines to be followed by the Departments of the Government at the district level for purposes of integration of measures for prevention of disasters and mitigation in their Development plans and projects and provides necessary technical assistance there for
  - x. Monitor the implementation of measures referred to in clause
  - xi. Review the state of capabilities for responding to any disaster or threatening disaster situation in the district and give directions to the relevant departments or authorities at the district level for their up gradation as may be necessary;
  - xii. Review the preparedness measures and give directions to the Concerned departments at the district level or other concerned authorities where necessary for bringing the preparedness measures to the levels required for responding effectively to any disaster or threatening disaster situation;
  - xiii. Organise and coordinate specialized training programmes for different levels of officers, employees and voluntary rescue workers in the district;
  - xiv. Facilitate community training and awareness programmes for prevention of disaster or mitigation with the support of local authorities, governmental and non-governmental organisations;
  - xv. Set up, maintain, review and upgrade the mechanism for early warnings and dissemination of proper information to public;
  - xvi. Prepare, review and update district level response plan and guidelines;
  - xvii. Coordinate response to any threatening disaster situation or disaster;
  - xviii. Ensure that the Departments of the Government at the district level and the local authorities prepare their response plans in accordance with the district response plan;
  - xix. Lay down guidelines for, or give direction to, the concerned Department of the Government at the district level or any other authorities within the local limits of the district to take measures to respond effectively to any threatening disaster situation or disaster; Advise, assist and coordinate the activities of the Departments of the Government at the district level, statutory bodies and other governmental and non-governmental organisations in the district engaged in the disaster management
  - xx. Coordinate with, and give guidelines to, local authorities in the district to ensure that measures for the prevention or mitigation of threatening disaster situation or disaster in the district are carried out promptly and effectively;

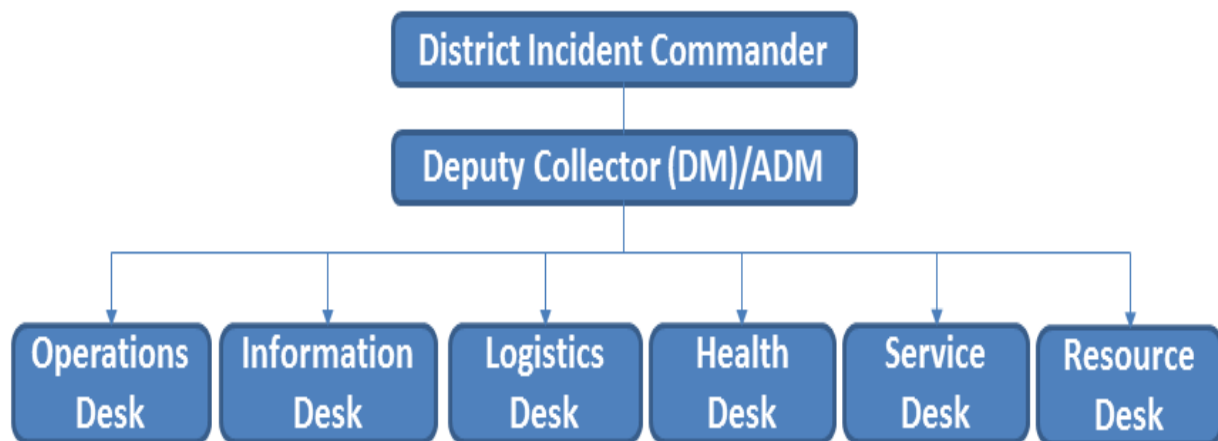
- xxi. Provide necessary technical assistance or give advice to the local authorities in the district for carrying out their functions;
- xxii. Review development plans prepared by the Departments of the Government at the district level, statutory authorities or local authorities with a view to make necessary provisions therein for prevention of disaster or mitigation;
- xxiii. Examine the construction in any area in the district and, if it is of the opinion that the standards for the prevention of disaster or mitigation laid down for such construction is not being or has not been followed, may direct the concerned authority to take such action as may be necessary to secure compliance of such standards;
- xxiv. Identify buildings and places which could, in the event of any threatening disaster situation or disaster, be used as relief centres' or camps and make arrangements for water supply and sanitation in such buildings or places;
- xxv. Establish stockpiles of relief and rescue materials or ensure preparedness to make such materials available at a short notice;
- xxvi. Provide information to the State Authority relating to different aspects of disaster management;
- xxvii. Encourage the involvement of non-governmental organisations and voluntary social-welfare institutions working at the grassroots level in the district for disaster management;
- xxviii. Ensure communication systems are in order, and disaster management drills are carried out periodically;
- xxix. Perform such other functions as the State Government or State Authority may assign to it or as it deems necessary for disaster management in the District.

### Emergency inter communication between different stakeholders



SIC: State Incident Commander; DIC: District Incident Commander; SDMCR: State Disaster Management Control Room; DPP: District Panchayat President; TCR: Taluk Control Room; VO: Village Officer; B/GPP: Block/Gram Panchayat President; DPC: District Police Chief; DFRO: District Fire & Rescue Officer; PS: Police Station; F & RS: Fire & Rescue Station

**FIGURE 7: FLOW CHART ON EMERGENCY INTERCOMMUNICATION BETWEEN STAKE HOLDERS**



**FIGURE 8: FLOW CHART ON INCIDENT COMMAND SYSTEM**

### **Operations Desk**

SEOC – Dedicated & trained staff; DEOC - Police and Fire & Rescue

- Monitoring field level rescue and evacuation operations
- Monitoring salvage operations
- Requisition of accommodation, transport and other necessary equipment for relief groups
- Maintain law and order
- Regular updates to the EOC regarding relief operations

### **Information Desk**

SEOC – Dedicated & trained staff; DEOC – Land Revenue

- Communication of weather reports and warnings and subsequent updates
- Dissemination of information
- Keep contingency plans along with all necessary maps in ready to use condition
- Maintenance of important telephone numbers, database on available resources, list of key persons
- Send and receive messages and maintain records of the messages
- Maintain information of damage, materials sent and ongoing activities for immediate sharing with Emergency Operation Centre



### **Logistics Desk**

SEOC – Dedicated & trained staff; DEOC – Transport Department

- Assess the need in terms of manpower and resources and ensure regular supply
- Ensure proper storage and transport facilities for relief materials
- Maintain adequate supply of necessary transport and equipment
- Coordinate with private transport associations and boat association for emergency requirement
- Organize transportation for rescue party, evacuated people medical terms and injured or sick people

### **Health Desk**

SEOC – Dedicated & trained staff & the State Level Nodal Officer of Health Department; DEOC – Health Department

- Organize treatment of injured and sick, disposal of carcasses
- Preventive Medicine and anti-epidemic measures are taken
- Maintain record of all activities
- Assess and ensure setting up medical relief camps
- Maintain adequate supply of medicines, equipment and personnel
- Monitor maintenance of health measures in all camps and provision of safe drinking water

### **Service Desk**

SEOC – Dedicated & trained staff; DEOC – Land Revenue

- Overall coordination of rescue and relief operations
- Assessing the relief, search and rescue and cash compensation requirements
- Organize and co-ordinate setting up of relief camps
- Ensure adequate supplies to the camps
- Coordinate identified NGO activities to ensure community participation
- Reporting the procurement and disbursement of relief material received from all sources
- Organize construction of temporary shelters, school buildings, medical facilities etc.
- Maintenance of cash and disbursements receipts, issue of relief materials, T.A & D.A of relief duty staff, daily wages, cash and credit vouchers, gratuitous and compensation paid, etc.
- Issuing of all cash and material receipts
- Reimbursement of all expenses approved
- Issue of cash vouchers for petrol and diesel

### **Resource Desk**

This desk shall be handled by the respective department as per the ESF Plan **Annexure 23**

**TABLE 17: DIFFERENT LEVEL STAKEHOLDERS AND THEIR RESPONSES**

	<b>Primary</b>	<b>Secondary</b>	<b>Territory</b>
<b>Early Warning</b>	Indian Meteorological Department (IMD): Weather Warnings, Central Water Commission (CWC): Flood Warnings, Geological Survey of India (GSI)/ National Centre for Earth Science Studies (NCESS): Landslide Warnings, Indian National Centre for Ocean Information Services (INCOIS)/ National Centre for Earth Science Studies (NCESS): Wave Height & Tsunami, National Emergency Operations Centre (NEOC)/ State Emergency Operations Centre (SEOC): Any of the above, Government: Any of the above	District Emergency Operations Centre (DEOC)/ District Collector: without precursors such as accidents/ earthquakes, Revenue	Fisheries, Coast Guard, Police,
<b>Information Dissemination</b>	PRD,BSNL, SEOC	FM radio,other mobile Network Providers	Existing wirelessoperators (Police,Fire Force etc).
<b>Emergency Support Functions</b>	Refer to Annexure 23	PWD, Food & civil supplies	Animal Husbandry, KSEB, KWA
<b>Advisory &amp; Training</b>	Administrative Training Institutes (ATI)	Taluk,NGO	Chemical Industries

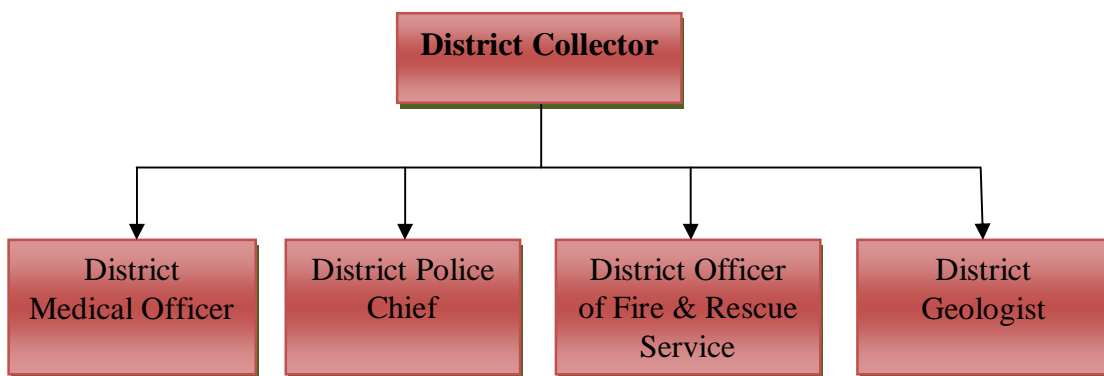
**TABLE 18: POINT OF CONTACTS FOR VARIOUS DEPARTMENTS**

<b>Departments</b>	<b>Officer in charge(designation)</b>	<b>Contact Details</b>
<b>Department of Revenue &amp; Disaster Mangement</b>	1. Deputy Collector (General) 2. Additional District Magistrate	1. Mob:8547610077 2. Mob: 8547610072
<b>Fire &amp; Rescue</b>	Asst. Divisional Officer	Mob: 9497920105, 2206131, 2205550
<b>Police</b>	1. Commissioner of Police (Kochi city) 2. Superintendent of Police (Ernakulum Rural)	1. Mob: 100, 2359200, 94472 56441 2. Mob: 484, 2623550, 2604080, 9497996979

**3.5 CRISIS MANAGEMENT GROUP TO MITIGATE THE DISASTERS IN MINES**

As per G.O (Rt) No.542/14/ID dated 26<sup>th</sup> May 2014, the State Government formed a State/District level crisis management groups in the state with respect to mitigation of disasters in mines for the State of Kerala.

The crisis management groups shall meet at least once in every year or as and when required to review the preparedness of various departments for crisis in mines and to conduct surprise visits at various mines and also publish annual report on the preparedness to handle the crisis.



**FIGURE 9: STRUCTURE OF CRISIS MANAGEMENT GROUP TO MITIGATE DISASTERS IN MINES**

**FINANCIAL ASSISTANCE**

As per the National Disaster Management Act, 2005, various financial provisions are available at District level for implementation of the plan.

**4.1. FUNDS IN 13TH FINANCE COMMISSION**

Government have sanctioned Rs.16,00,000 (sixteen lakhs only) for the procurement of essential equipment for strengthening/setting up of the emergency operations centre functioning in the district under the head of account of ‘2245-80-102-97’ capacity building in the administrative machinery for better handling of disaster response.

**4.2. STATE DISASTER RESPONSE FUND**

The Calamity Relief Funds which was in operation till March 2010 to meet the expenditure for providing immediate relief was merged in to State Disaster Response Fund vide notification G.O (P) No. 498/2010/DMD dated 03-12-2010 on the recommendation of 13<sup>th</sup> Finance Commission. The fund is maintained in the public account of the state for providing immediate relief. The State Government will also claim on the National Disaster Response Fund (previously NCCF) through memorandums for central assistance for relief and rehabilitation in the event of any calamity of a larger proportion.

**TABLE 19: TOTAL ALLOCATION OF SDRF IN ERNAKULAM DISTRICT**

State	2010-11 (lakhs)	2011-12 (lakhs)	2012-13 (lakhs)	2013-14 (lakhs)	2014- 15(lakhs)	Total (lakhs)
<b>Ernakulam</b>	1151.9	1174.8	1496.4	2546.5	-	<b>6369.6</b>

**4.3. CMDRF (CHIEF MINISTER’S DISTRESS RELIEF FUND)**

The Chief Minister’s Distress Relief Fund provides financial assistance for the distressed people affected by major natural calamities like flood, drought, fire etc. It also provides financial assistance to the needy individuals for their treatment of major diseases like Cancer, Cardiac surgery, Kidney transplant, Brain Tumour, Liver and Multi Organ failures etc.

The financial assistance for the victims of lightning is also being released from the chief minister’s distress relief fund as per GO no.223/12/Rev. A sum of Rs.1lakh is provided to the victim’s family and a maximum sum of Rs. 10,000/- is provided to injured/affected. The very aim of the fund is to provide immediate relief to the people in distress and the resource for the same is gathered by voluntary donations from any person viz., Government employees, quasi government employees, bank-insurance employees, NRIs, various service organizations, industrialists, Artists, writers etc. Donations made to the Chief Minister’s Distress Relief Fund is eligible for 100% exemption from income-tax under section 80G (2) (iii hf) of the Income-Tax Act, 1961.

**TABLE 20: TOTAL ALLOCATION OF CMDRF IN ERNAKULAM DISTRICT**

<b>State</b>	<b>2010-11 (lakhs)</b>	<b>2011-12 (lakhs)</b>	<b>2012-13 (lakhs)</b>	<b>2013-14 (lakhs)</b>	<b>2014-15 (lakhs)</b>	<b>Total (lakhs)</b>
<b>Ernakulam</b>	2026.6	2670.4	5142.7	1066.6	-	<b>2053.6</b>

#### **4.4 MEMBER OF PARLIAMENT LOCAL AREA DEVELOPMENT SCHEME (MPLADS)**

The MPLAD Scheme was launched on 23rd December, 1993, to provide a mechanism for the Members of Parliament to recommend works of developmental nature for creation of durable community assets and for provision of basic facilities including community infrastructure, based on locally felt needs.

MPLADS works can be implemented in areas affected by natural calamities like floods, cyclone, hailstorm, avalanche, cloud burst, pest attack, landslides, tornado, earthquake, drought, Tsunami, fire, chemical, biological and radiological hazards, etc. MPs from the non affected areas of the state can also recommend permissible works upto a maximum of Rs.10 lakh per annum in the affected area(s) in that state.

In the event of “Calamity of severe nature” (which is decided and declared by the Government of India) in any part of the country, an MP can recommend works up to a maximum of Rs. 50 lakh for the affected district. The funds in this regard will be released by the Nodal District Authority of the MP concerned to the District Authority of the affected district to execute permissible works.

**PLANNING & RESPONSE STRUCTURE**

**5.1. CRISIS MANAGEMENT FRAME WORK**

An effective response is the result of a comprehensive crisis management program that orchestrates well developed decision-making framework that rightly aligns various incident and site-level response activities. The ability to manage a crisis successfully is the result of understanding the risks and vulnerabilities involved, comprehensive planning, regular exercises, and a strategy for maintaining these capabilities to deal disasters regardless of type, location and intricacy.

**5.2. CRISIS RESPONSE TEAM OF THE DISTRICT**

<b>District Collector and District Magistrate, Ernakulam</b>	Contact numbers: 0484- 2423001, 2372902, 2382445, 2422282, Mobile numbers: 94477 29012, 94464 63720
<b>Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva</b>	<b>Kochi city</b> Contact numbers : 100, 2359200 Mobile : 94472 56441 <b>Ernakulam Rural, Aluva</b> Contact numbers : 100, 2627540
<b>Commandant, Coast Guard, Fort Kochi</b>	Contact numbers : 2218969, 2217164
<b>Revenue Divisional Officers, Fort Kochi and Muvattupuzha</b>	Revenue Divisional Officer, Fort Kochi - 2215340, 9446545340 Revenue Divisional Officer, Muvattupuzha - 0485-2835319
<b>Tahsildars</b>	Kanayannur : 0484- 2360704, 9447048371 Kochi : 0484- 2215559, 9447068371 Aluva : 0484- 2624052, 9446508052 Kunnathunad : 0484- 2522224, 9447078371 Paravur : 0484- 2442326, 9447069371 Muvattupuzha : 0485 -2832313, 9447018371 Kothamangalam : 0485 -2822298, 9447096371
<b>Divisional Officer, Fire &amp; Rescue Services, Ernakulam</b>	Contact numbers : 9497920105, 2206131, 2205550. Contact numbers : 9497920105, 2206131, 2205550.
<b>District Medical Officer (Health services), Ernakulam</b>	Contact numbers : 9446451045
<b>Deputy Director of Panchayats, Ernakulam</b>	Contact numbers : 94475 11832

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<b>Executive Engineer, Minor Irrigation Division, Ernakulam</b>	Contact numbers : 9447459754,0484-242255
<b>Senior Joint Director of Factories and Boilers, Ernakulam</b>	Contact numbers : 2422258, 94474 60163
<b>Executive Engineer, Irrigation Division, Ernakulam</b>	Contact numbers : 9961330767, 2422230
<b>Dy. General Manager ( Fire&amp; Safety, BPCL-KR, Ambalamugal</b>	Contact numbers : 2821921, 2821800, 9495001003
<b>District Supply Officer, Ernakulam</b>	Contact numbers : 9446383306
<b>Chief Executive Officer, Infopark, Kakkanad</b>	Contact numbers : 2415217, 2415231, 2415232, 9895049249
<b>Executive Engineer, PWD (Roads Division), Ernakulam</b>	Contact numbers : 8086395062
<b>Regional Chemical Examiner, Kakkanad</b>	Contact numbers : 2422569
<b>District Animal Husbandry Officer, Ernakulam.</b>	Contact numbers : 2351264, 94473 14481
<b>Dy. Chief Engineer, KSEB, Ernakulam</b>	Contact numbers : 2555965, 9446008367
<b>Regional Transport Officer, Ernakulam</b>	Contact numbers : 2422246, 8547639007
<b>Sr. Plant Manager, IOC Ltd., Udayamperoor</b>	Contact numbers : 2774918, 2792358, 2792458
<b>Area Manager, Southern Railway, Ernakulam</b>	Contact numbers : 23757071, 2375951
<b>Government Analyst, Kakkanad</b>	Contact numbers : 2422218, 98477 90192
<b>Principal Agricultural Officer, Ernakulam</b>	Contact numbers : 2422224
<b>District Information Officer, Ernakulam</b>	Contact numbers : 9496003208
<b>Executive Engineer, PWD (Buildings Division), Ernakulam</b>	Contact numbers : 98460 23588
<b>Secretary, Cochin Port Trust</b>	Contact numbers : 2666555, 2666520, 94474 59275
<b>Executive Engineer, Kerala Water Authority, Ernakulam</b>	Contact numbers : 2360816, 97441 73848
<b>Sr. Installation Manager, HPC Ltd., Irumpanam</b>	Contact numbers : 2292582, 2292583, 9447022582
<b>Chairman, National Safety Council, Kerala Chapter, Kalamassery</b>	Contact numbers : 2541060
<b>Chief Environmental Engineer, KSPCB, Kadavanthra</b>	Contact numbers : 2207783, 94472 54504

*Further details are furnished in annexure 15*

**TABLE 21: CONTACT LIST OF EMERGENCY SERVICES IN ERNAKULAM**

Emergency services in Ernakulam	Name and address of the Service providers
<b>Ambulance services</b>	<ul style="list-style-type: none"> <li>▪ Indhira Gandhi Cooperative hospital Gandhinagar, Kadavanthara, Kochi-Ernakulam, Kerala Phone:91484-2319334</li> <li>▪ Specialist hospital near town railway Station Kaloor, Kochi, Ernakulam Kerala phone:91484 2395066</li> <li>▪ Lions club ambulance, Sudheendra Hospital Chittoorroad, Kacheryppady, Kochi-Ernakulam, Kerala.</li> <li>▪ Phone: +91-484-2354139</li> </ul>
<b>Airlines (counter at airport)</b>	<ul style="list-style-type: none"> <li>▪ Cochin international airport-+914842610115</li> <li>▪ Jet airways - +91484-2610037,</li> <li>Indian Airlines - +91-484261041,2353826</li> <li>Air india - +91484-261140</li> </ul>
<b>Blood banks</b>	<ul style="list-style-type: none"> <li>▪ IMA Voluntary Blood bank Kochi-Ernakulam, kerala +91484-2354886</li> <li>▪ Bloodbank voluntary ISBY Kochi-Ernakulam, kerala. Phone: +91484-2361809</li> <li>▪ Amritha institute of Medical science and research Centeramritha line Elamakkapost, ponekkara, Kochi –Ernakulam, kerala. phone: +91 484-2339095</li> </ul>
<b>Electricity services</b>	<ul style="list-style-type: none"> <li>▪ KALOOR- +914842341923</li> <li>▪ Vytila-91484-2304785</li> <li>▪ Willington Island+914842668164</li> <li>▪ Fort-+91484-2217298</li> </ul>
<b>Fire services</b>	<ul style="list-style-type: none"> <li>▪ Port-+ 91484 2666555</li> <li>▪ Naval base-+ 91484 2666555</li> <li>▪ Club Road-+91484 -2355101</li> <li>▪ Mattanchery-+ 91484 2255554</li> <li>▪ Gandhinagar-+ 91484 -2205550,101</li> </ul>
<b>24 hours services</b>	<ul style="list-style-type: none"> <li>▪ Accident care- +91484 9846099900,9846007740</li> </ul>
<b>Police</b>	<ul style="list-style-type: none"> <li>▪ Control room-100,+91484 91484-2371178</li> <li>▪ Harbour-+ 91484-2666005</li> <li>▪ City traffic-+ (1484 2344202</li> <li>▪ Central--+91842394500</li> <li>▪ Railway-+91484-2369259</li> </ul>
<b>Railways</b>	<ul style="list-style-type: none"> <li>▪ Cochin Harbour terminus-+91484-2666050</li> <li>▪ Edappilly-+91484-234202</li> <li>▪ Aluva-+91484-2375131</li> <li>▪ Angamaly-+91484-2369259</li> </ul>
<b>Water supply</b>	<ul style="list-style-type: none"> <li>▪ Ernakulam sub division-+91484-2372830</li> <li>▪ Control room(Complaints)-+9148423613691</li> <li>▪ Drainage-+91484-2369710</li> </ul>

*Contact numbers of various line departments in detail (Annexure 16)*



5.3 HAZARD SPECIFIC CRISIS MANAGEMENT PLAN

5.3.1 Flood

TABLE 22: FLOOD CRISIS MANAGEMENT PLAN FOR THE DISTRICT

Source of Information- IMD: <a href="http://imdtvm.gov.in">http://imdtvm.gov.in</a>	
<p><b>Extremely Heavy Rainfall (&gt;244.4mm)</b></p>	<p><b>Most Vigil</b> - Actions to be taken and sustained till warning is withdrawn in the villages/taluks/districts predicted to be affected by rainfall</p> <ul style="list-style-type: none"> <li>• SEOC &amp; DEOC – Keep checking the tsunami bulletins from the INCOIS site.</li> <li>• State-District –Taluk Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• NDRF, SDRF and Fire and Rescue Service – pre-positioned as per the direction of State Incident Commander</li> <li>• BSNL and Police – deploy emergency communication systems</li> <li>• Hospitals and PHCs in the villages predicted to be affected by rainfall – function at full strength 24 hrs</li> <li>• Tahsildar – Start the relief camps; Quarry blasting to be banned until atleast 24 hrs of rain free situation arises in the quarry locality based on evaluation by the village officers</li> <li>• Local Self Governments – relocate vulnerable population to the relief camps and other safe locations</li> <li>• Transport department – take control of all cranes and earthmovers in the district for deployment in the event of major calamities</li> <li>• KSEB &amp; PWD – Emergency repair teams to be ready for deployment</li> <li>• District Officers of KSEB, PWD, Health, Irrigation &amp; Transport – to be available at the respective district collectorates</li> <li>• Police – Stop vehicular traffic other than that of emergency services via ghat roads prone to landslides and flash floods; ensure strict oneway system for vehicle movement</li> <li>• Declare holiday for all educational institutions</li> <li>• All mass gatherings and social events to be stopped</li> <li>• Public advised to remain indoors and those in landslide/flood prone areas to move to safer locations. Voluntary evacuation warning to public living in the flood prone areas of the district (based on the list of hazard prone villages published in <a href="http://www.sdma.keral.gov.in">www.sdma.keral.gov.in</a>; <a href="http://disasterlesskerala.org">disasterlesskerala.org</a>)</li> <li>• Tourism &amp; Forest Departments – Advise tourists not to stop in the sides of streams and rivulets that intersect Ghat (Hilly) roads and take bath in streams and bathing ghats when it is raining as these are possible tracts of landslides &amp; flashfloods; close all hill stations and resorts in coastal and low lying areas and evacuate public to safer areas</li> </ul>
<p><b>Very Heavy Rainfall (124.5 to 244.4 mm)</b></p>	<p><b>Be prepared</b> - Actions to be taken and sustained till warning is withdrawn, in the districts predicted to be affected by rainfall</p> <ul style="list-style-type: none"> <li>• DEOC – Emergency time functions activated</li> <li>• Deoc, District – taluk Control Rooms of Rvenue and Police – 24 hrs functioning</li> <li>• SDRF and Fire and Rescue Service – pre-positioned as per the direction of State Incident Commander</li> <li>• Army, Navy, Air Force, Coast Guard and other central forces in the state – informed</li> <li>• Hospitals and PHCs – ensure doctors and paramedical staff are available on call</li> <li>• Tahsildar – take control of the identified relief shelters; Quarry blasting to be banned until atleast 24 hrs of rain free situation arises in the quarry locality based on evaluation by the village officers</li> <li>• Local Self Governments – advice public to restrain from standing near and</li> </ul>

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

	<p>crossing streams and avoid traffic through ghat roads</p> <ul style="list-style-type: none"> <li>• Transport department – ensure that cranes and earthmovers in the district are ready for deployment in the event of major calamities</li> <li>• KSEB &amp; PWD – Emergency repair teams to be ready for deployment</li> <li>• Police – Stop vehicular traffic other than that of emergency services via ghat roads prone to landslides and flash floods</li> <li>• District Officers of KSEB, PWD, Health, Irrigation &amp; Transport – to be available on call to District Incident Commander</li> <li>• Tourism &amp; Forest Departments – Advise tourists not to stop in the sides of streams and rivulets that intersect Ghat (Hilly) roads and take bath in streams and bathing ghats when it is raining as these are possible tracts of landslides &amp; flashfloods</li> <li>• Voluntary evacuation warning to public living in the flood prone areas of the district (based on the list of hazard prone villages published in <a href="http://www.sdma.keral.gov.in">www.sdma.keral.gov.in</a>; <a href="http://disasterlesskerala.org">disasterlesskerala.org</a>)</li> </ul>
<p><b>Heavy Rainfall (64.4 to 124.4 mm)</b></p>	<p><b>Be updated</b> - Actions to be taken and sustained till warning is withdrawn, in the villages/taluk/districts predicted to be affected by rainfall</p> <ul style="list-style-type: none"> <li>• SEOC – All state level officers of the nodal departments informed</li> <li>• DEOC – Emergency time functions activated</li> <li>• District Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• Tahasildar – ensure that shelters are available if needed; Quarry blasting to be banned until atleast 24 hrs of rain free situation arises in the quarry locality based on evaluation by the village officers</li> <li>• Transport department – take control of all cranes and earthmovers in the district for deployment in the event of major calamities</li> <li>• KSEB &amp; PWD – Emergency repair teams to be ready for deployment</li> <li>• Tourism &amp; Forest Departments – Advise tourists not to stop in the sides of streams and rivulets that intersect Ghat (Hilly) roads and take bath in streams and bathing ghats when it is raining as these are possible tracts of landslides</li> </ul>

### 5.3.2. Landslide

**TABLE 23: LANDSLIDE CRISIS MANAGEMENT PLAN FOR THE DISTRICT**

Source of information – SEOC: <a href="http://www.disasterlesskerala.org">www.disasterlesskerala.org</a>	
<p><b>Criteria:</b></p> <ol style="list-style-type: none"> <li>1. When IMD issued very heavy rainfall warning</li> <li>2. When two days of cumulative rainfall exceeds 8cm in a rain station, landslide warning is issued to the respective district</li> </ol>	
<p><b>Land slide Alert</b></p>	<p>Be prepared – Actions to be taken and sustained till warning time limit expires/ until 2 days cumulative rainfall is below 8 cm</p> <ul style="list-style-type: none"> <li>• SEOC-Telephonically verify the warning from INCOIS</li> <li>• SEOC &amp; DEOC-Emergency time functions activated</li> <li>• State-District –Taluk Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• SDRF &amp; Coastal Police-deployed to the coastline</li> <li>• Army, Navy, Air Force &amp; other Central Forces in the state- on high alert and standby</li> <li>• BSNL&amp; Police-deploy emergency communication systems</li> <li>• Hospitals and PHCs in the districts functions at full strength 24hrs</li> <li>• Tahasildar- Take control of the identified relief shelters: Quarry blasting to be banned until 24 hrs of rain free situation arises in the quarry locality based on the evaluation by the village officers</li> <li>• Local Self Governments: Alert public living close to small rivulets and in hilly segments with greater than 20 degree slope</li> </ul>

**5.3.3 Tsunami**

**TABLE 24: TSUNAMI CRISIS MANAGEMENT PLAN FOR THE DISTRICT**

Source of Information –INCOIS: <a href="http://www.incois.gov.in/Incois/tsunami/eqevents.jsp">http://www.incois.gov.in/Incois/tsunami/eqevents.jsp</a>	
<b>Warning</b>	<p>Most vigil- Action to be taken and sustained till warning is withdrawn in villages/taluks/districts predicted to be affected by tsunami</p> <ul style="list-style-type: none"> <li>• SEOC-Telephonically verify the warning from INCOIS</li> <li>• SEOC &amp; DEOC-Emergency time functions activated</li> <li>• State-District –Taluk Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• NDRF, SDRF&amp; Coastal Police-deployed to the coastline</li> <li>• Army, Navy, Air Force &amp; other Central Forces in the state-deployed to the coastline</li> <li>• BSNL&amp; Police-deploy emergency communication systems</li> <li>• Hospitals and PHCs in the districts functions at full strength 24hrs</li> <li>• Tahasildar-Evacuate public within 250m from the coastline to the relief camp and other safe higher ground and start the relief camps</li> <li>• Local self government – Evacuate public within 250m from the coastline to the relief camp and other safe higher ground</li> <li>• Department of Ports &amp;Harbour Engineering –Move all seafaring vessels to deep ocean</li> <li>• KSEB &amp; PWD-Emergency repair teams to be ready for deployment</li> <li>• District Officers of KSEB,PWD,health, Irrigation, transport, ports &amp;harbour engineering – to be available at the respective district collectorates.</li> <li>• Police-Stop vehicular traffic other than that of emergency services to the area predicted to be affected : ensure strict one way system for vehicle movement</li> <li>• Declare holiday for all educational institutions in the taluks predicted to be affected by the event</li> <li>• All mass gatherings and social events in the taluks predicted to be affected by the event is to be stopped</li> <li>• Public within 250m from the coastline to be moved to higher ground and further inland</li> <li>• Tourism dept. –Close all resorts within 250m of the coastline and lowlying areas in river- mouth/coastal estuaries and evacuate public to safer areas.</li> </ul>
<b>Alert</b>	<p>Be prepared – Actions to be taken and sustained till warning is withdrawn, in the villages/taluks/districts predicted to be affected by tsunami</p> <ul style="list-style-type: none"> <li>• SEOC-Telephonically verify the warning from INCOIS</li> <li>• SEOC &amp; DEOC-Emergency time functions activated</li> <li>• State-District –Taluk Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• SDRF &amp; Coastal Police-deployed to the coastline</li> <li>• Army, Navy, Air Force &amp; other Central Forces in the state- on high alert and standby</li> <li>• BSNL&amp; Police-deploy emergency communication systems</li> <li>• Hospitals and PHCs in the districts functions at full strength 24hrs</li> <li>• Tahasildar-Evacuate public within 250m from the coastline to the relief camp and other safe higher ground and start the relief camps</li> <li>• Local self government – Evacuate public within 250m from the coastline to the relief camp and other safe higher ground</li> <li>• Department of Ports &amp;Harbour Engineering –Move all seafaring vessels to deep ocean</li> </ul>

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	<ul style="list-style-type: none"> <li>• KSEB &amp; PWD-Emergency repair teams to be ready for deployment</li> <li>• District Officers of KSEB,PWD,health, Irrigation, transport, ports &amp; harbour engineering – to be available at the respective district collectorates.</li> <li>• Police-Stop vehicular traffic other than that of emergency services to the area predicted to be affected : ensure strict one way system for vehicle movement</li> <li>• Declare holiday for all educational institutions in the taluks predicted to be affected by the event</li> <li>• All mass gatherings and social events in the taluks predicted to be affected by the event is to be stopped</li> <li>• Public within 250m from the coastline to be moved to higher ground and further inland</li> <li>• Tourism dept. –Close all resorts within 250m of the coastline and lowlying areas in river- mouth/coastal estuaries and evacuate public to safer areas.</li> </ul>
<b>Watch</b>	<p>Be updated - Actions to be taken and sustained till warning is withdrawn, in the villages/taluks/districts predicted to be affected by tsunami</p> <ul style="list-style-type: none"> <li>• SEOC &amp; DEOC – Keep checking the tsunami bulletins from the INCOIS site.</li> <li>• State-District –Taluk Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• All concerned district administrations and nodal departments listed above to be on alert mode.</li> </ul>
<b>Threat Passed</b>	<p>SEOC – cross check with INCOIS that the threat has passed          DEOC - cross check with SEOC that the threat has passed</p>

### 5.3.4 Drought

**TABLE 25: DROUGHT CRISIS MANAGEMENT PLAN FOR THE DISTRICT**

Level	Vulnerability Magnitude	Observations	Impact	Response
1	Normal	Prepare & update resource inventory	Nil	All line Departments
2	Warning	Receiving warning information	Nil	IMD/SEOC
4	Emergency	Alert all line departments and public	Agriculture crop loss	District administration
			Deficit in ground water recharge	
			Fall in investment capacity of farmers, rise in prices, reduced grain trade, and	
			power supply	
			Non-availability of drinking water	
		Sun burn		
5	Recovery (Post Disaster)	Adequate Drinking water supply		KWA
		Assessment of detailed crop loss and give assistance to farmers		Agriculture dept.

**5.3.5 Lightning**

**TABLE 26: LIGHTNING CRISIS MANAGEMENT PLAN FOR THE DISTRICT**

Level	Vulnerability Magnitude	Observations	Impact	Response
1	Normal	Prepare & update resource inventory	Nil	All line Departments
2	Warning	Receiving warning information	Nil	IMD/SEOC
3	Emergency		Loss of life & property	
			Casualty to people	
			Mortality to cattle	
			Damage to power, telephone lines, cable networks	
4	Recovery (Post Disaster)			Agriculture dept.

**5.4. ACTIVITY CALENDAR**

**TABLE 27: ACTIVITY OF DEPARTMENTS DURING MONSOON SEASONS**

Department	Pre-monsoon	During monsoon	Post-monsoon
<b>Health department</b>	<ul style="list-style-type: none"> <li>Intensive Information-Education-Communication.EC &amp; BCC activities</li> <li>Preventive action in water scarce areas</li> <li>Conducting cleaning programmes</li> <li>Breeding source elimination</li> <li>Chlorination and super chlorination of water sources through operation yellow free</li> <li>Harvesting and release of larvivorous fishes</li> <li>Removal of aquatic vegetation from ponds, pools, canals, etc</li> <li>Operation hot water -periodical inspection at Hotels for healthy and hygienic environment to stop Typhoid and Hep A</li> <li>AarogyaSandheshaYathra</li> </ul>	<ul style="list-style-type: none"> <li>Strengthen treatment facility</li> <li>Conduct student campaign and weekly dry day observations and observe Anti Malaria and Anti Dengue months</li> <li>Public Health (PH) Act implementation meetings</li> </ul>	<ul style="list-style-type: none"> <li>Advocacy and sensitization meetings and arrange action campaigns if required</li> <li>Prevention of mosquito breeding by releasing larvivorous fishes in wells and other water sources and supply of doxycycline for the prevention of leptospirosis</li> <li>IRS in endemic areas and surveillance against disease outbreaks</li> <li>Intensive screening of immigrants for malaria</li> </ul>
	<ul style="list-style-type: none"> <li>Vaccination and deworming of animals &amp; birds,</li> <li>Conducting awareness</li> </ul>	<ul style="list-style-type: none"> <li>Assessing &amp; reporting of losses due to natural calamities,</li> </ul>	<ul style="list-style-type: none"> <li>Vaccination and deworming of animals &amp; birds,</li> </ul>

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

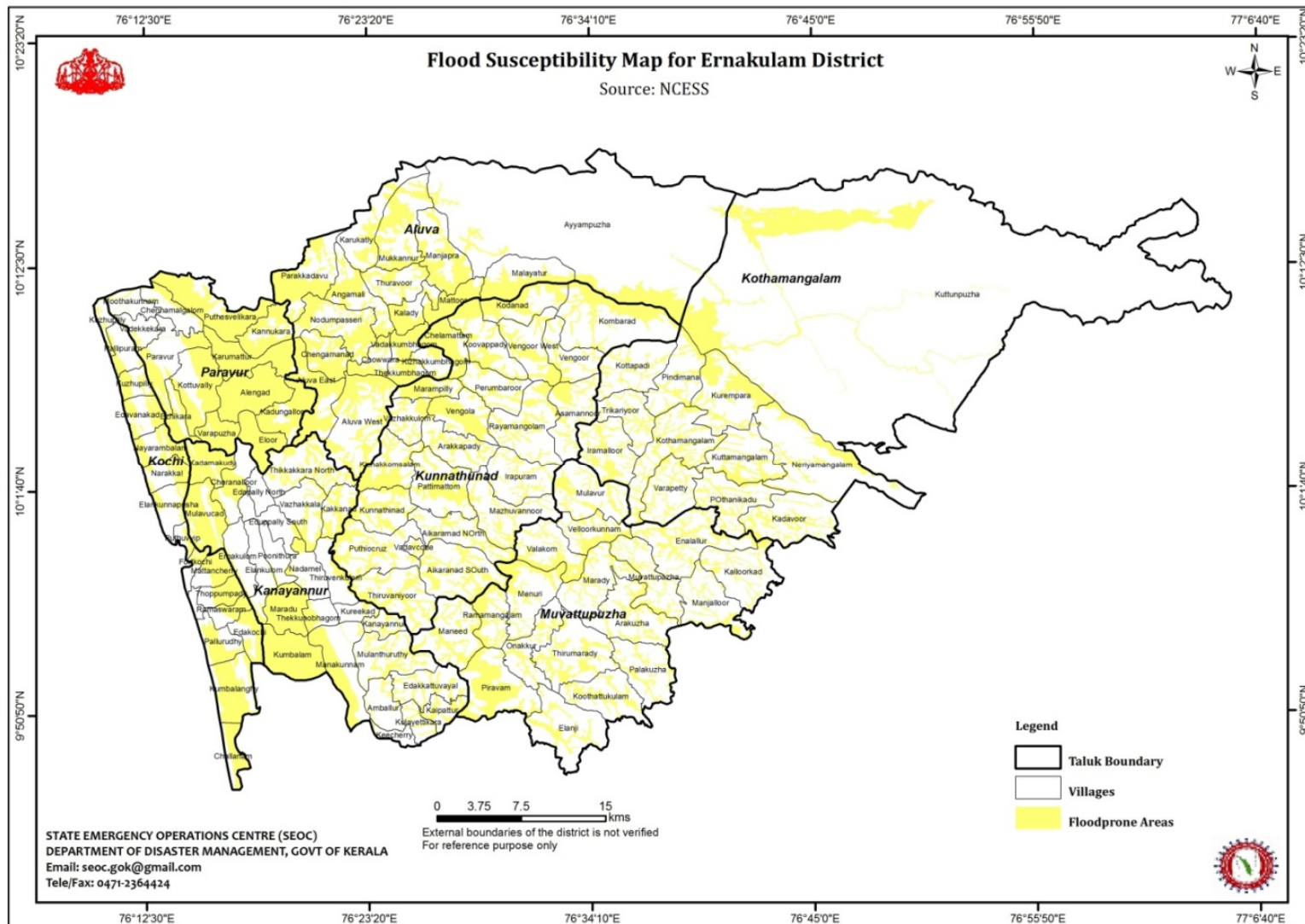
<b>Animal Husbandary</b>	programmes	<ul style="list-style-type: none"> <li>• Providing treatment &amp; required medicines for ailing animals</li> <li>• Providing feed for affected animals and ambulatory service in cases of emergency</li> </ul>	<ul style="list-style-type: none"> <li>• Conducting awareness programmes</li> <li>• Follow up action on losses reported due to natural calamities and providing assistance</li> </ul>
<b>KSEB</b>	<ul style="list-style-type: none"> <li>• 11 KV line maintenance</li> <li>• High tension (HT) touching removal and replacement of damaged HT poles</li> <li>• Maintenance of transformers</li> <li>• Maintenance of Low tension(LT) lines, replacement of damaged LT poles</li> </ul>	<ul style="list-style-type: none"> <li>• Attending supply interruption complaints and breakdown maintenance works</li> </ul>	<ul style="list-style-type: none"> <li>• Reconducting of HT/ LT lines and conversion of single phase to 3 phase line</li> </ul>

### 5.5. NEED ANALYSIS FOR PRE AND POST DISASTER SCENARIOS

**TABLE 28: ANTICIPATED NEEDS DURING PRE-FLOOD AND POST-FLOOD**

Anticipated needs Pre- Flood		Anticipated Needs Post – Flood	
Structural	Non – Structural	Rescue	Relief
Clearance of water ways	Public awareness campaigns	Boats	Food
Removal of encroachments	Monitoring & updating flood related parameters	Vehicles	Shelter
Cleaning of sewerage	Sand bags	Helicopters	Financial aid
Repairing damaged roads	Dewatering pumps	Rescue equipments	Cooked food
Construct water harvesting system	Update resource inventories	Human resources	Safe drinking water
Construction of bunds, canals etc	Procurement of locally available boats	Mobile clinics	Electricity
Maintenance and repair of sluice gates and spill way of reservoirs	Collect details of earth movers, cutters, JCB's and other related machineries in the District	Life saving equipments	Medicines/ vaccination
	Generators		
	Storage of medicine		
	Mobilize the search & rescue equipments		

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



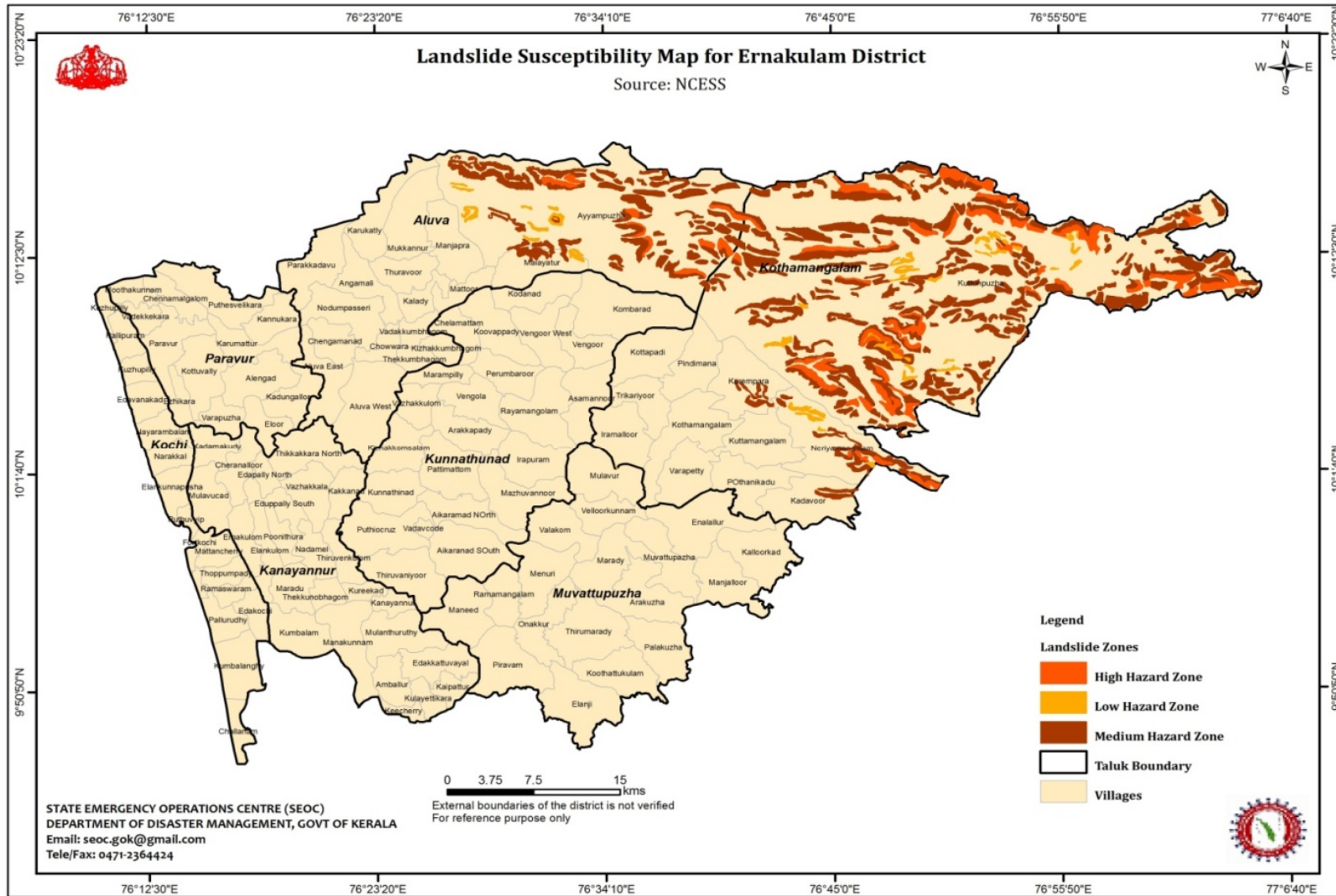
**FIGURE 10: FLOOD SUSCEPTIBILITY MAP FOR ERNAKULAM DISTRICT (ANNEXURE 24)**

**TABLE 29: ANTICIPATED NEEDS DURING PRE- LANDSLIDE AND POST- LANDSLIDE**

Anticipated needs Pre- Flood		Anticipated Needs Post – Flood	
Structural	Non – Structural	Rescue	Relief
Improving surface and subsurface drainage	Identify the landslide prone areas in the district and have a close monitoring during the monsoon season	JCB ,Crain	Food
Constructing piles and Retaining wall.	Monitoring & updating landslide related parameters	Vehicles ambulance	Shelter
Preserving vegetation	Public awareness campaigns	Rescue equipments	Financial aid
Rock fall protection	Update resource inventory	Human resources	Cooked food
Boulder-gathering trenches at the foot of the hillside	Collect details of earth movers,cutters, JCB's and other related machineries in the district	Mobile clinics	Safe drinking water
Lowering the slope	Storage of medicine	Life saving equipments	Electricity
	Disseminate landslide hazard mapping information to stakeholders		Medicines/ Vaccination
	At selected locations demonstrate mitigation actions through use of local resources / cost effective measures.		



# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

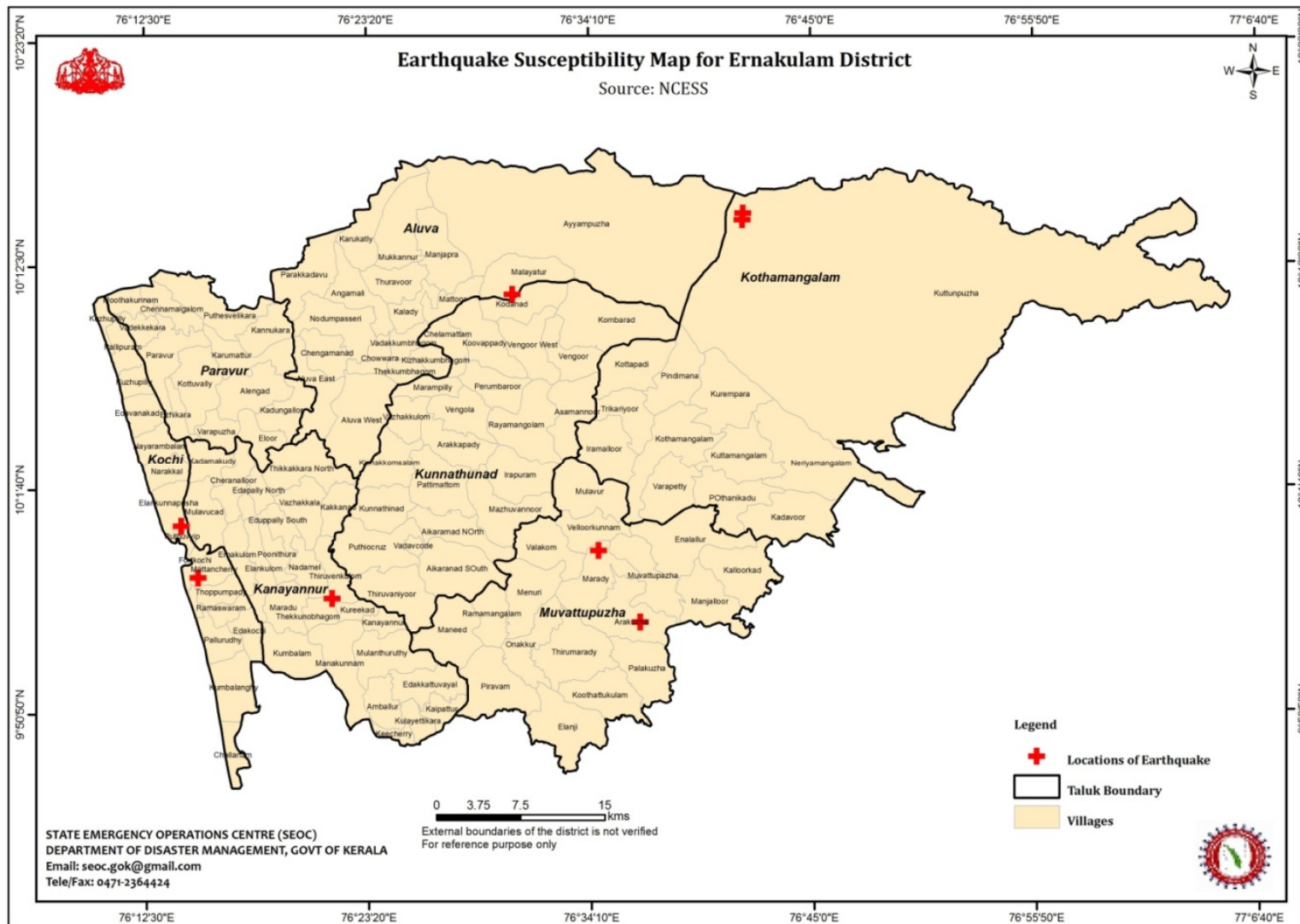


**FIGURE 11: LANDSLIDE SUSCEPTIBILITY MAP FOR ERNAKULAM DISTRICT (ANNEXURE 24)**

TABLE 30: NEED ANALYSIS FOR PRE AND POST EARTHQUAKE SCENARIOS

Anticipated needs Pre- Flood		Anticipated Needs Post – Flood	
Structural	Non – Structural	Rescue	Relief
Construction of Earthquake resistant buildings	To disseminate earthquake risk to general public residing in earthquake prone zones Campaign for earthquake safety tips	Search Equipments	Food
Strengthen dams,bridges	Update Resource Inventories	Vehicles	Shelter,Clothing
Analysis of historical seismic data and regional geology can guide people, including architects, builders, and engineers to build safer structures.	Collect details of earth movers, cutters, JCB’s and other related machineries in the District	Helicopters	Financial aid
Earthquake safe designs and building codes for public construction.	Storage of medicine	Rescue equipments	Cooked food
Seismic strengthening, retrofitting of non-engineered structures.	Mobilize the Search & Rescue Equipments	Human resources	Safe Drinking Water
Identification and removal of unsafe buildings/structures	GIS based mapping of population vulnerability	Medicines,Mobile Clinics	Electricity,Com munication System
To provide or make seismic microzonation maps	Planning logistics for response scenarios, planning of evacuation routes	Life savingequipments	Medicines/ Vaccination
	Seismic risk assessment and mapping of seismic zones.	Earth movers, Cutters, JCB’s and other related machineries	
	Provide professional training about earthquake resistance construction to engineers and architects		

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



**FIGURE 12: EARTHQUAKE SUSCEPTIBILITY MAP FOR ERNAKULAM DISTRICT**

**TABLE 31: HISTORY OF TREMORS IN THE DISTRICT**

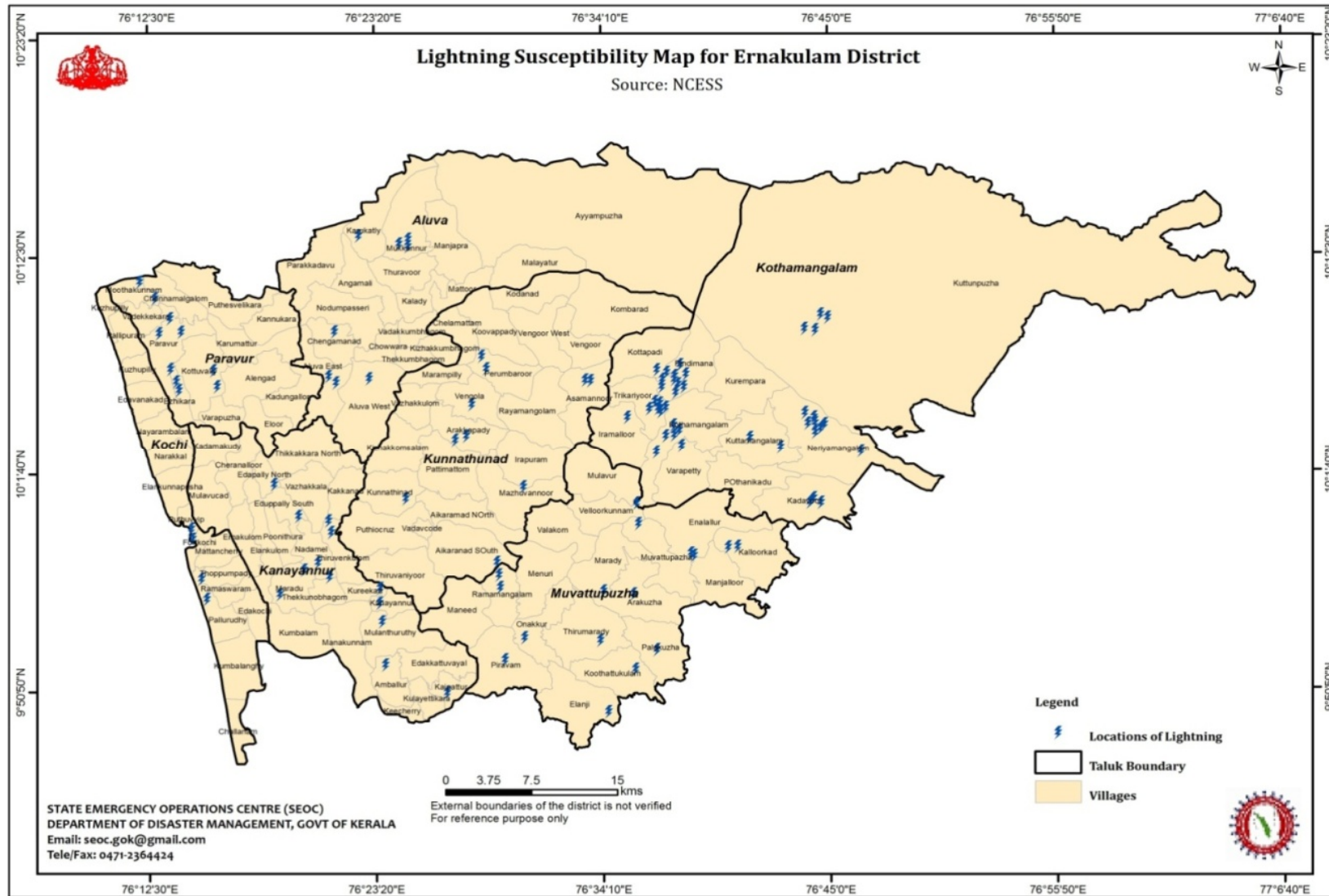
Sl.No	Location	Intensity	Magnitude	Date
1	Idamalayar	...	2.1	10/19/2006
2	Muvattupuzha	...	1.2	01/16/2005
3	Malayattoor_Ernakulam	III-IV	3.5	02/21/2001
4	Idamalayar	III	3.0	01/22/1986
5	Arakuzha, Muvattupuzha		4.2	03/06/1971
6	Arakuzha, Muvattupuzha		3.7	04/24/1972
8	Thiruvengulam, Kanayannur		4.5	05/17/1972
9	Cochin	VI	5.0	07/26/1953
10	Vypin	VII	5.7	11/11/1341

*Source: NCESS*

**TABLE 32: NEED ANALYSIS FOR PRE AND POST LIGHTNING SCENARIOS**

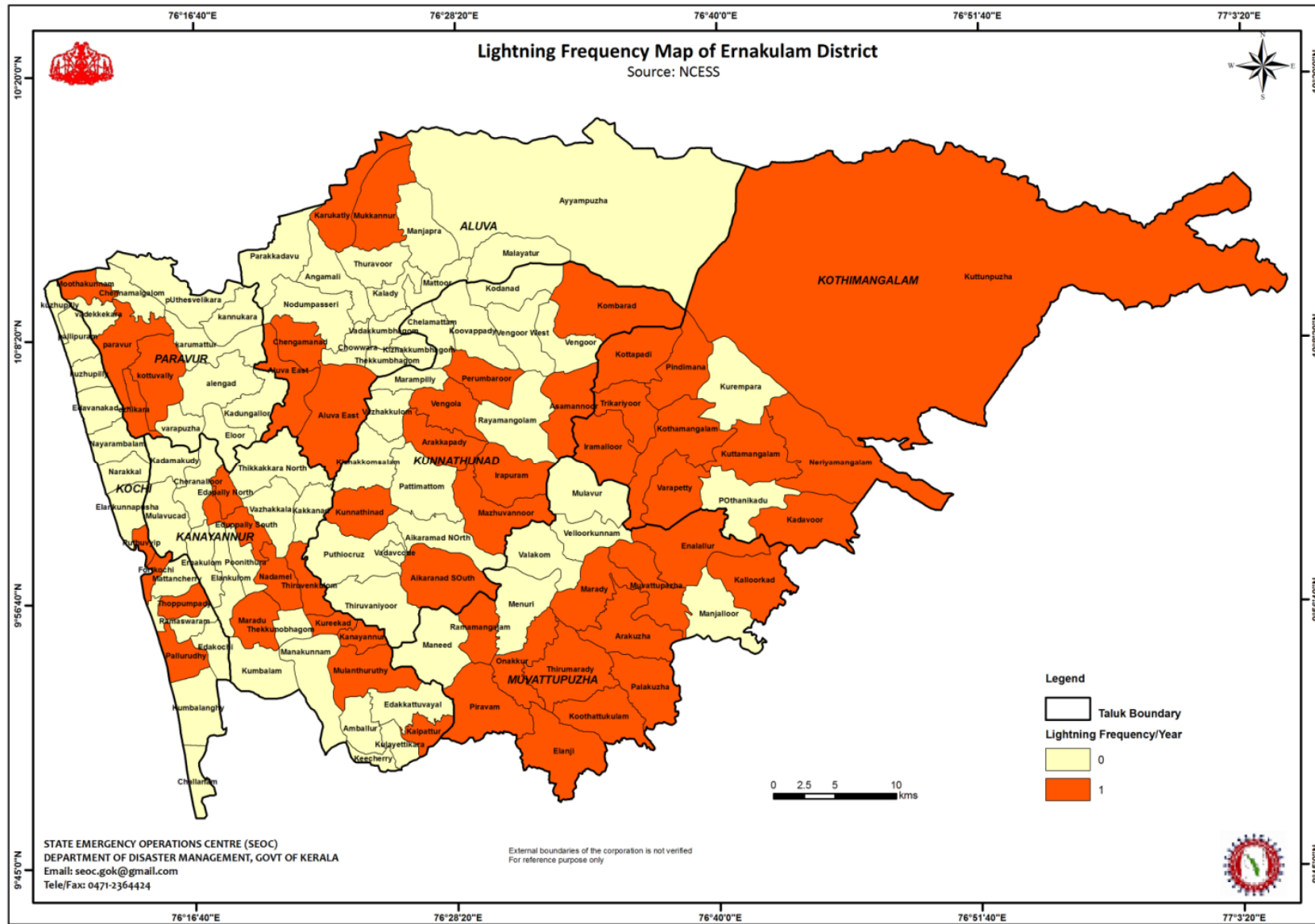
Anticipated needs Pre- Flood		Anticipated Needs Post – Flood	
Structural	Non – Structural	Rescue	Relief
Install lightning rod during the time of building construction	Public awareness campaigns	Human resources	Medicines/ Vaccination
	Update Resource Inventories	Mobile Clinics	Financial aid

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



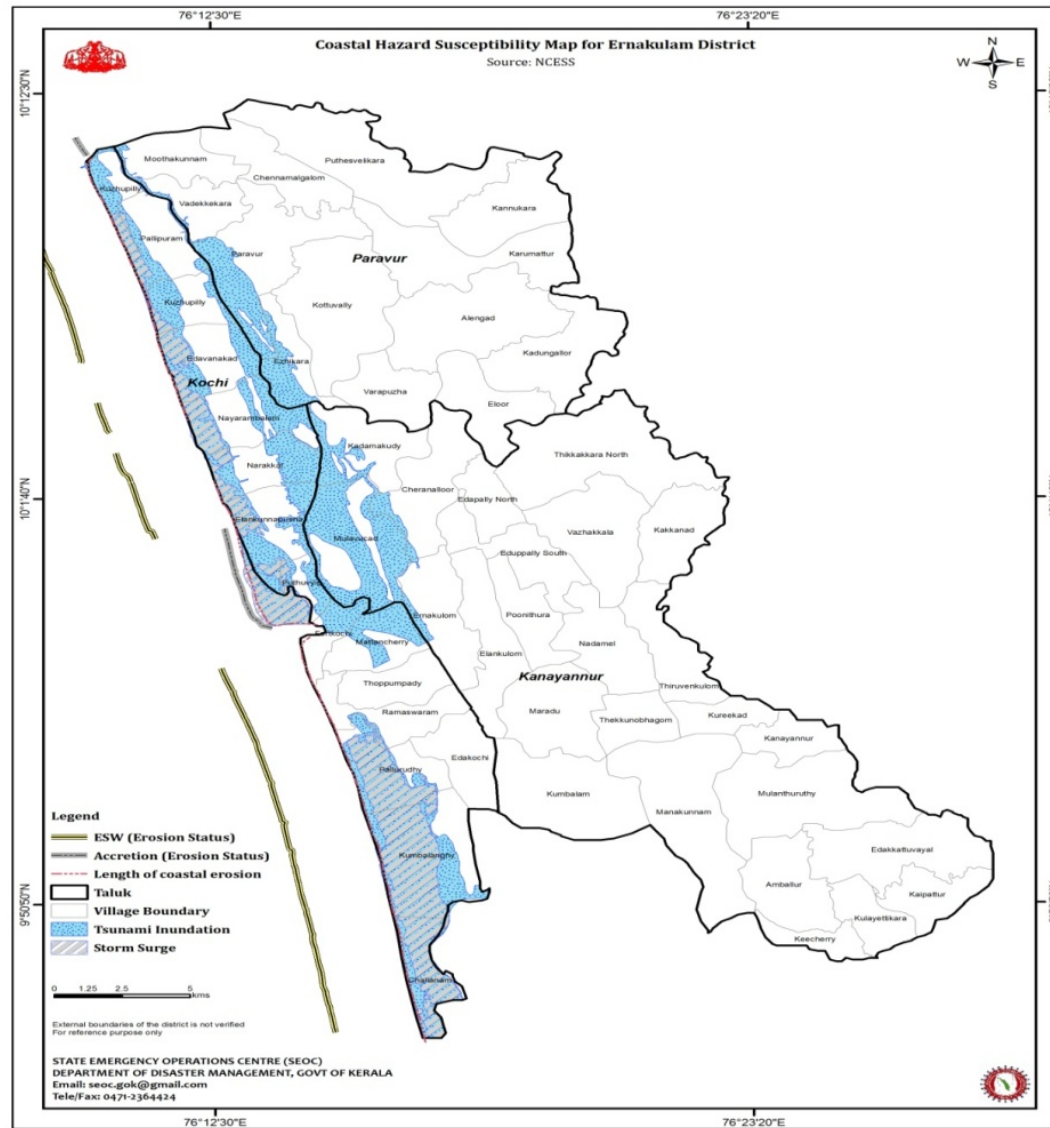
**FIGURE 13: LIGHTNING SUSCEPTIBILITY MAP FOR ERNAKULAM DISTRICT (ANNEXURE 19)**

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**FIGURE 14: LIGHTNING FREQUENCY OF THE DISTRICT (ANNEXURE 20)**

# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



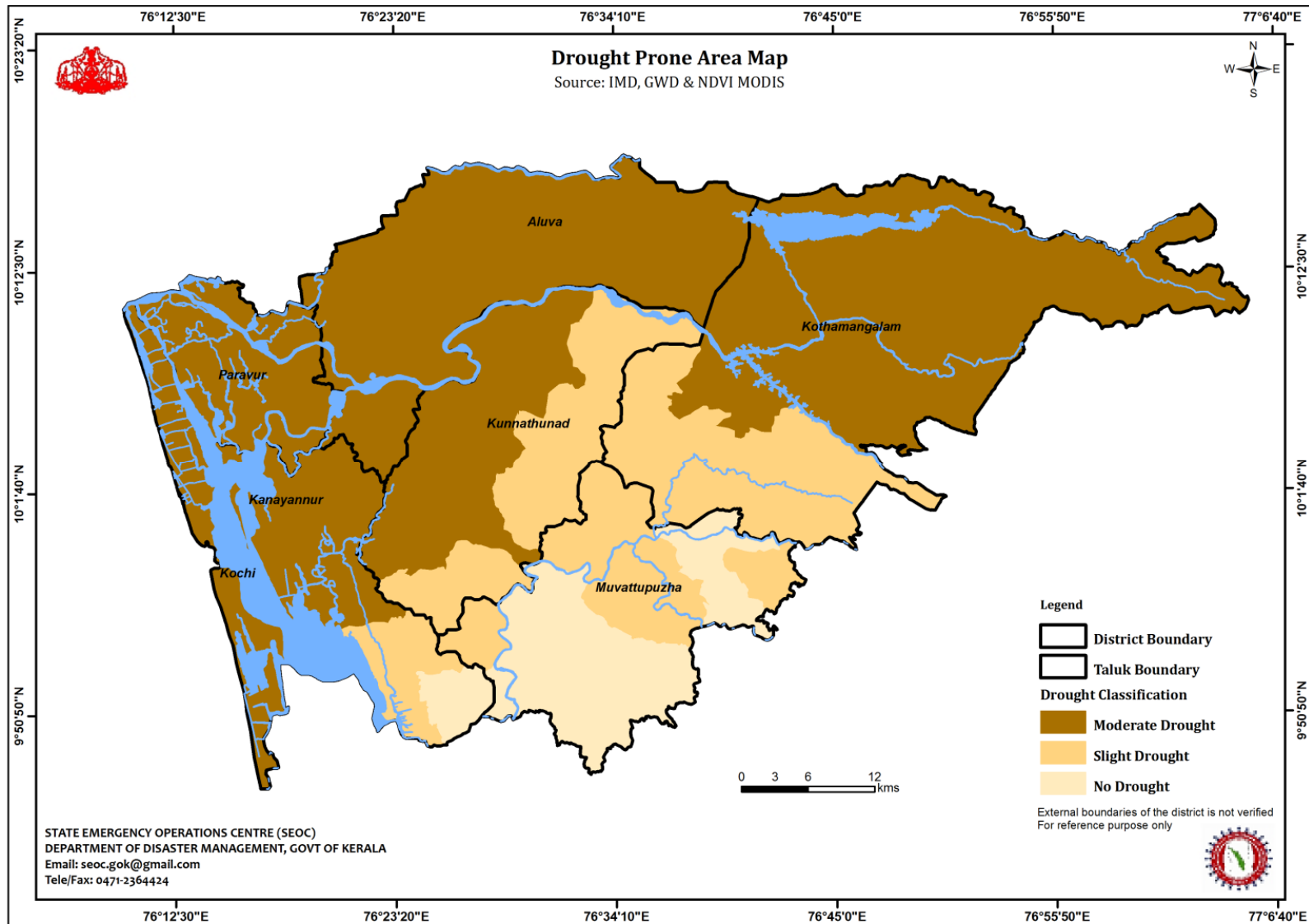
**FIGURE 15: COASTAL HAZARD SUSCEPTIBILITY MAP FOR ERNAKULAM DISTRICT**

**TABLE 33: NEED ANALYSIS FOR PRE AND POST DROUGHT SCENARIOS**

<b>Anticipated needs Pre- Flood</b>		<b>Anticipated Needs Post – Flood</b>	
<b>Structural</b>	<b>Non – Structural</b>	<b>Rescue</b>	<b>Relief</b>
Renovation of existing ponds and open wells	Public Awareness Campaigns	Human Resources	Drinking Water supply
Construction of check dams, cleaning and protection of existing water sources	Monitoring and updating drought related parameters	Mobile Clinics	Cooked food
Renovation of existing lift irrigation system	Update resource inventories		Medicines/ Vaccination
Forestation	Storage of medicines		Financial Aid
Promotion of Rainwater harvesting and soil conservation measures	Water supply		
Watershed Management Programmes	Encourage farmers to understand crop pattern to be adopted in their area		
Enactment and enforcement of laws regulating ground water level and exploitation of natural resources	Disseminate drought risk to general public residing in drought prone zones. Campaign for drought tips for agriculture, general public		Medicines/ Vaccination



# DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015



**FIGURE 16: DROUGHT PRONE AREAS OF ERNAKULAM DISTRICT (ANNEXURE 21)**

### 5.6 RESPONSE

The disaster response phase involves emergency relief measures taken in anticipation of, during and immediately in the aftermath of a disaster event to ensure that the effects of the disaster are minimized. The Incident Command Systems, Emergency Response capabilities and Institutional Arrangements developed in the pre – disaster phase will be brought in to play in this phase. The overall response strategy will vary from level to level of the disaster (L0, L1, L2, and L3)

#### **The District Collector / District Disaster Management Authority:**

The District Disaster Management Authority headed by the District Collector will activate all the institutional arrangements for disaster response in this phase such as District Disaster Management Plan, Incident Command System, District Emergency Operation Centre, Departmental Plans and Standard Operating Procedures. The district administration will carry out evacuation, search, rescue and relief activities within the geographical boundaries of the district in conjunction with local authorities and government departments particularly departments of disaster management and home. The respective district heads from various Government departments shall report to the District Collector for the activities in this phase.

The District Collector would recommend declaration of an event as disaster, if required, to the State Government. The District Collector would also immediately coordinate with State Disaster Management Authority / Department of Revenue and Disaster Management, if necessary, for additional resources from the state.

#### **Local authorities:**

The local authorities including corporations, municipalities and district, block and gramapanchayaths would work in close coordination with relevant government departments and district disaster management authorities in performing the key activities of this phase catering to the immediate requirements of affected population.

#### **Non-governmental organisations and community groups:**

Reaching out to the victims within the critical period of an emergency is a major requirement to protect human lives and assets in this phase. Local community and voluntary agencies should undertake relief operations immediately. The Village Disaster

Management Plans shall be activated by Village Disaster Management Committee and the Task Forces such as Early Warning Team, Evacuation, Search and Rescue Team, First Aid Team and Water and Sanitation Team shall be activated under the overall direction and supervision of District Disaster Management Authority and District Collector. The Village Disaster

Management Committee should co-operate with district administration in the conduct of a preliminary damage assessment and should provide inputs to relevant authorities as to the magnitude of effect of disaster, need for additional resources etc.

### **Private Sector**

The human, material, technical and financial resources of the private sector shall be mobilized to provide immediate relief to the affected people. Based on the On – Site Disaster Management Plans developed, Mock Drills and capacity building in the pre – disaster phase, they may co-operate with relevant agencies in the conduct of emergency relief. They shall also support the relief efforts of the government through supply of emergency search and rescue items, drinking water, hardware items like generators, pumps, industrial equipments etc. along with deployment of volunteers.

### **Key Activities in Disaster Response Phase**

**The Incidence Command System** (district level as applicable) is an organized system of government departments and other agencies that are to be worked under a structured pattern for response and recovery. Departments and external agencies should be grouped into various ‘Emergency Support Functions’ such as Communication, Search and Rescue, Law and Order, Emergency medical Care, Public Works (debris / road clearance, equipment support), Logistics (Water, Electricity and Transportation) and Coordination (warning, evacuation, relief, shelter, damage assessment, NGO / volunteers Coordination, Public Information / Help lines) as per their nature and type of assistance they can provide in a crisis situation.

The relevant authorities, departments and agencies would ensure precise communication of the impact of disaster and relief measures being taken. The agencies concerned should set up toll free numbers for emergency information assistance and establish help lines for providing, directing and coordinating logistical operations. While providing relevant information and handling enquiries, necessary care will be adopted to prevent panic reactions from the community.

**The State and District Emergency Operation Centres** would facilitate the State Disaster Management Authority / Department of Revenue and Disaster Management and District Disaster Management Authority / District Collectors in Coordination, Operation Management, Information Collection and Documentation, Public Information and Resource Management in this phase.

### **Evacuation, Search and Rescue:-**

The first priority in the response phase of a disaster is to minimise loss of lives by undertaking evacuation, search and rescue efforts for the affected people and providing emergency medical care. The District Collector guided by relevant Disaster Management Plans and supported by government departments particularly Police and Fire and Rescue Services, Department of Health, local authorities and Community Task Forces, would be responsible for evacuation, search and

rescue. National Disaster Response Force (NDRF), Navy, Army, Air Force and Coast Guard shall be engaged in Evacuation, Search and Rescue depending upon the proportion of the events.

### **Food, shelter, health, sanitation, etc.:-**

Disaster situations typically result in an immediate need for food, temporary shelter and protection against incidences of epidemics. The relevant government departments should give priority to ensure sufficient food and water supply, sanitation mechanisms and temporary shelters to the affected population. The multipurpose community centres shall be converted to temporary shelters to accommodate the displaced population. Necessary arrangements to house the affected families separately with sufficient provisions for sanitary facilities and privacy for adolescent girls and ladies shall be made at these centers. Shelters for milch animals shall also be arranged, if necessary.

### **Restoration of basic infrastructure and essential services:-**

An immediate priority after a disaster is to bring the basic infrastructure facilities like road, transportation, power supply, communication systems etc. and essential services of government departments into operating condition. The district administration and local authorities would work in close coordination with relevant Government departments to restore the same to normal operating condition.

### **Maintenance of Law and Order:-**

It is necessary that law and order is maintained properly and security to the affected population and aid workers is provided to ensure uninterrupted relief operations.

### **Immediate relief:-**

Immediate relief (Ex- Gratia, Packages and Payouts to the victims) shall be provided to all the affected families without any discrimination of caste, creed, religion or community. The relief packages should be need based and customized to the specifics of the disaster and affected community and adhered to the minimum standards set for relief distribution. Attention will be given to the cultural concerns of different communities and to eliminate culture/religion/gender based discrimination in relief distribution. Gender sensitiveness should be ensured through close interaction with the affected communities during the relief planning process and involvement of women in relief planning, distribution of assistance and in other emergency management activities. It should be confirmed that the relief measures reaches sub-categories such as widows, old women, femaleheaded households, single women, disabled etc. The state government shall explore additional sources of funding from central government agencies, if budgetary allocations of the state government for relief activities and funds available under Calamity Relief Fund and National Calamity Contingency Fund are inadequate to meet the requirements.

**Damage and need assessment:-**

In order to ensure optimum utilization of limited resources in the most efficient manner and to avoid duplication and over stretching, preliminary assessments should be carried out by the government departments and local authorities.

**5.7 RESPONSIBILITY MATRIX**

The perils of hazard has to be negated with appropriate observation and focused activities, which necessitate the need of an ever vigilance forecasting system that will help in managing the disastrous effect of a hazard.

The structural frame work starts with identifying, evaluating and assigning well defined roles and responsibilities of various authorities in managing disasters. Experiences with previous disasters make it clear, that authorities have to be sensitized prior and subsequent to an untuned event. Thus, coordination among stakeholders for effective management of disasters is essential and to ensure this, pre planning must be done before the onset of a disaster and specific task must be assigned to each department so as to provide training in the specific areas.

**TABLE 34: RESPONSIBILITY MATRIX**

<b>Time</b>	<b>Task</b>	<b>Department/ Agency</b>
D-72 Hr	Warning and analysing in the information	IMD,SEOC,INCOIS
D-48 Hr	Evacuation, Arrangement of temporary shelters,	Revenue, Police ,coast guard
D-24Hr	Mitigation Measures	Revenue, Police, fire & Rescue, Health, Navy, Coast Guard, NGO's, PWD,
D-0Hr	Activate the Incident Command System.	DDMA, Police, fire & Rescue, Health
D+15 Min	Search and Rescue Providings aids to affected people	Revenue, Police, fire & Rescue, Health, Navy, Coast Guard, NGO's, PWD,

**5.8 RECONSTRUCTION, REHABILITATION & RECOVERY MEASURES**

As the urgent and immediate basic needs of affected communities are being met in the Disaster Response Phase, the process of rehabilitation and reconstruction needs to begin. The Post Disaster phase involves activities which help the affected communities in the reconstruction of

the physical infrastructure and restoration of economic and social well-being. The focus of state policy in this phase will be to ensure speedy return to normalcy, recover from the economic and social consequences of the disaster and mitigation of long term effects of the disaster.

It is equally vital to ensure that rehabilitation and reconstruction do not leave the affected society as vulnerable as or even more vulnerable than before. Development opportunities should not be missed or compromised because of an excessive focus on relief. The Recovery Phase highlights the need for emphasis on the development framework of the disaster recovery. Kerala State envisages that there is a great need to develop strategic recovery programs which fit together with national and state level development goals. Hence, the State Disaster Management Policy highlights the fact that disasters can be a vehicle for major development programs; as first, disasters can highlight particular areas of vulnerability and underdevelopment, Secondly, it may favour a much higher rate of economic and social change than before, in areas such as land reform, alternative livelihoods, introduction of new technologies, housing and infrastructure improvements, and restructuring of the economic base.

Rehabilitation and reconstruction should promote development that reduces risk of communities to disaster and empowers local communities. Rebuilding should happen in ways that address the root causes of vulnerability, including gender inequalities. Sensitivity to gender is vital in order to empower a community to successfully move on and move up from the abyss of disaster.

### **Role of relevant stakeholders**

#### **Local Authorities**

Local authorities will conduct detailed damage assessment and support the government departments in implementing the Post Disaster Recover Activities. The involvement of local bodies and members of Panchayath Raj Institutions is extremely important in effective implementation. The local bodies should ensure inclusion of all affected persons; evolve mechanisms to avoid duplication and to couple rehabilitation and reconstruction with regular development projects.

#### **Non-Governmental Organisations**

Community groups and voluntary agencies, including Non Governmental Organisations should participate in the post-disaster activities, mandated by and in co-ordination with State Disaster Management Authority or the District Collector. They should function under the umbrella of a common platform or coordination committee headed by the District Collector in alignment with the overall policies and guidelines developed by the Authority. They should co-ordinate with the activities of government departments and Local Authorities and should provide regular feedback to the concerned authorities regarding progress and outcome of their rehabilitation and reconstruction projects undertaken in the affected area.

### **Private Sector**

The private sector as a responsible corporate citizen may invoke their corporate social responsibility in the post disaster phase and participate in the long term rehabilitation and reconstruction activities under the overall supervision and direction of the Relief commissioner or the district collector.

### **Key Activities in Recovery Phase**

#### **1. Damage Assessment and Estimation of funds:-**

A detailed assessment must be conducted before commencing rehabilitation and reconstruction activities. The relevant Government departments and local authorities should undertake detailed assessments at their respective level for damages sustained in housing, livelihoods, industry, services, infrastructure, agriculture, health facilities and educational resources in the affected region. Based on detailed damage assessment, Government of Kerala will finalise estimation of funds required and fund generation mechanisms. The state government shall explore sources of funding required for disaster recovery from central government through Calamity Relief Fund and National Calamity Contingency Fund and necessary steps shall be taken to represent the cause of the state government to central government. The state government will also make necessary efforts to include Coastal erosion and Lightning in the list of disasters under Calamity Relief Fund. Assistance from national and international organisations shall also be sought, if required.

#### **2. Restoration of livelihood:-**

Livelihood rebuilding shall recognize the local needs and seek ways to support individuals and families with special needs. The rebuilding process shall expand opportunities for poor and marginalized groups. Rebuilding shall also include innovative opportunities for unemployed youth in the affected area. Rebuilding shall ensure that issues and concerns of communities prior to the disaster are also addressed. Restoration Plans shall focus not only the main affected sectors, but also the knock-on effects to other sectors.

**3. Physical reconstruction** (houses, buildings, infrastructure, services etc) :- This needs to be based on the hazard risk, vulnerability and capacity assessments. Planning for housing and retrofitting will need to look at the hazards of the particular location, what kind of resources and capacities people have to be involved in the rebuilding, and what designs are appropriate like flood, cyclone, earthquake or drought resistant. Planning should also focus on needs of women, people with special needs and elderly.

The district administration and local authorities, in consultation with the people affected and under the guidance of State Disaster Management Authority, shall determine relocation of people

from extremely vulnerable areas. Existing laws on land acquisition for rehabilitation of affected families shall be reviewed, if necessary, to avoid delay in rehabilitation activities.

#### 4. Project management:-

The activities in the Post Disaster Phase characteristically involve the harmonized efforts of several government departments and entities. A well-structured project implementation unit dispensed with proper authority under District Disaster Management Authority shall be institutionalized for successful implementation and monitoring. Steps would be taken to follow the best practices in the past project management experience of the state and to curb lack of coordination, multiplicity of committees, complexity of composition and lack of accountability of implementing units.

### 5.9 RECONSTRUCTION & REPAIR WORKS

#### Tsunami Rehabilitation Programme

Kerala State Housing Board has been designated as nodal agency for the implementation of the Coastal Housing and Re-settlement Programmes (CHRP). Programme Objective has to restore livelihood and ensure sustainability in Post Tsunami rehabilitation activities. The most vulnerable and tsunami struck communities were: Rural women children and coastal communities are the key beneficiaries of the programme. The details of the Tsunami Rehabilitation Programme (TRP) Works are appended below.

**TABLE 35: DETAILS OF TSUNAMI REHABILITATION PROGRAMME (TRP) WORKS**

Sl. No	Task	Department/ agencies	Activities	Time Period	Cost	Source of Fund
1	Tsunami Rehabilitation Programme (TRP)	Revenue, KSHB,	<u>Flat construction</u> Edavanakkadu-48 Nayarambalam-18 Kuzhupilly-16 <u>Insitu Houses</u> Chellanam, Elamkunnappuzha, Njarakkal -287	-	65186103 cr	TRP Fund

*SOPs and Checklists are enclosed in Annexure 22.*

### 5.10 EMERGENCY SUPPORT FUNCTIONS PLAN, 2014

In the aftermath of a major natural disaster wherein State Government's assistance is required for the districts, the command, control and coordination will be carried out under the ESFs Plan.

EOC shall activate the ESFs and the concerned Department/Agency of each ESFs shall identify requirements in consultation with their counterparts in affected districts, mobilize and deploy



resources to the affected areas to assist the district (s) in its/their response action. The State EOC shall maintain a close link with the District EOCs and NEOC.

ESFs shall be responsible for the following:

1. They will coordinate directly with their functional counterpart in districts to provide the state government, the assistance required. Request for assistance will be channelled from the district both through the District Incident Commander/DEOC and designated departments/agencies. Based on the identified requirements by the districts, appropriate assistance shall be provided by an ESF Department/Agency to the district or at the District Incident Commander's request, directly to an affected area.
2. The designated authorities for each of ESF shall constitute quick response teams and assign the specific task to each of the member.
3. The designated authorities for each of the ESF shall identify and earmark the resources i.e. Manpower and materials to be mobilized during the crisis.
4. An inventory of all the resources with the details shall be maintained by each of the designated authority for each of the ESF.
5. The designated authority for each of the ESF will also enter into pre-contracts for the supply of resources, both goods and services to meet the emergency requirements
6. The designated authority for each of the ESF will be delegated with adequate administrative, legal and financial powers for undertaking the tasks assigned to them.

**Primary and Secondary Agencies:** The designated primary agency shall be assisted by one or more support agencies (secondary agencies) and shall be responsible for managing the activities of the ESF and assisting the district in the rescue and relief activities and ensuring that the mission is accomplished. The primary and secondary agencies have the authority to execute response operations to directly support the needs of the affected districts.

**Roles and responsibilities of primary and secondary Emergency Support Agencies along with Form/Proforma are attached in Annexure 23.**

**DISTRICT DISASTER MANAGEMENT PLAN**  
**ERNAKULAM - ANNEXURES**  
**2015**

**ANNEXURE 1(A)**

**SCHOOL DETAILS IN THE DISTRICT**

Sl.No.	Name of School	Address	Phone		Stage
1.	Govt. HSS, Central Calvathy	Fortcochin, 682001	0484	2215856	HSS
2.	Govt. HSS & VHSS, Chottanikkara	Chottanikkara P.O., 682316	0484	2711208	HSS & VHSS
3.	Govt. HSS, Edappally	Edappally P.O., 682024	0484	2344075	HSS
4.	Govt. HSS & VHSS, Edappally North	Edappally North P.O., 682024	0484	2801673	HSS & VHSS
5.	Govt. HSS, Elamakkara	Elamakkara P.O., 682026	0484	2408280	HSS
6.	Govt. HS, Edacochi	Edacochi P.O., 682006	0484	2327477	HS
7.	Govt. HSS, Elamkunnappuzha	Elamkunnappuzha P.O., 682503	0484	2492808	HSS
8.	Govt. HS, Panampilly Nagar	Panampilly Nagar P.O., 682036	0484	2318816	HS
9.	Govt. HSS for Girls, Ernakulam	M.G. Road P.O., 682016	0484	2376078	HSS
10.	SRV Govt. Model HSS & VHSS, Ernakulam	Ernakulam Bazar P.O., 682011	0484	2376944	HSS & VHSS
11.	EM Govt. GHSS, Fortcochi	Veli P.O., 682001	0484	2227930	HSS
12.	Govt. HSS & VHSS, Kadamakudy	Pizhala P.O., 682027	0484	2512067	HSS & VHSS
13.	Govt. HSS for Girls, Mattanchery	Mattanchery P.O., 682002	0484	2227220	HSS
14.	Govt. VHSS, Mangayil	Maradu P.O., 682304	0484	2706397	VHSS
15.	Govt. HSS, Mulanthuruthy	Mulanthuruthy P.O., 682314	0484	2740353	HSS
16.	Govt. HSS & VHSS, Njarakkal	Njarakkal P.O., 682505	0484	2492952	HSS & VHSS
17.	Govt. HS, Panayappilly	Mattanchery, 682002	0484	2225133	HS
18.	Govt. HS, Pulickamaly	Pulickamaly P.O., 682314	0484	2744870	HS
19.	Govt. HSS, Puthenthode	Andikkadavu P.O., 682008	0484	2247499	HSS
20.	Govt. HS, Thiruvankulam	Thiruvankulam P.O., 682305	0484	2787413	HS
21.	Govt. Boy's HSS & VHSS, Tripunithura	Tripunithura P.O., 682301	0484	2784596	HSS & VHSS
22.	Govt. Girls HSS, Tripunithura	Tripunithura P.O., 682301	0484	2777790	HSS
23.	Govt. Palace Girls HS, Tripunithura	Tripunithura P.O., 682301	0484	2781244	HS
24.	Govt. Sanskrit HSS, Tripunithura	Tripunithura P.O., 682301	0484	2785332	HSS
25.	Govt. HS, Willington Island	Willington Island P.O., 682003	0484	2666922	HS
26.	Govt. HSS, Vennala	Vennala P.O., 682028	0484	2809255	HSS
27.	Govt. RFTHS, Thevara	Thevara P.O., 682013	0484	2663048	VHSS
28.	Govt. TTI, Edappally (Lab School)	Edappally P.O., 682024	0484	2341655	TTI School
29.	St. George's HS, Arakkunnam	Arakkunnam P.O., 682313	0484	2748525	HS
30.	St. Joseph's HS, Chathiath	Pachalam P.O., 682012	0484	2391641	HS

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31.	St. Mary's HS, Chellanam	Chellanam P.O., 682008	0484	2249970	HS
32.	Rama Varma Union HS, Cherai	Cherai P.O., 683514	0484	2488113	HS
33.	Sahodaran Memorial HSS, Cherai	Cherai P.O., 683514	0484	2489554	HSS
34.	Al Farookhia HS, Cheranelloor	Cheranelloor P.O., 682034	0484	2431104	HS
35.	TDHS, Mattanchery	Mattanchery P.O., 682002	0484	2225920	HS
36.	St. George's HS, Edappally	Edappally P.O., 682024	0484	2344460	HS
37.	Pius Girls HS, Edappally	Edappally P.O., 682024	0484	2344247	HS
38.	SDPY KPMHS Edavanakkad	Edavanakkad P.O., 682502	0484	2506235	HS
39.	Hidayathul Islam HSS, Edavanakkad	Edavanakkad P.O., 682502	0484	2505170	HSS
40.	LMCCHS for Girls, Chathiath	Pachalam P.O., 682012	0484	2393586	HS
41.	St. Augustin's HS, Ernakulam	Kaloor P.O., 682017	0484	2401782	HS
42.	St. Albert's HSS, Ernakulam	Ernakulam College P.O., 682035	0484	2351736	HSS
43.	St. Mary's CGHSS, Ernakulam	Ernakulam College P.O., 682035	0484	2368322	HSS
44.	St. Teresa's CGHSS, Ernakulam	Ernakulam Bazar P.O., 682011	0484	2351744	HSS
45.	Darul Uloom HSS, Ernakulam	Pulleppady, 682018	0484	2353817	HSS & VHSS
46.	Fathima Girls HS, Fortcochin	Kochi, 682001	0484	2215299	HS
47.	Santa Cruze HSS, Fortcochin	Kochi, 682001	0484	2216589	HSS
48.	VHSS, Irimpanam	Irimpanam P.O., 682309	0484	2774853	VHSS
49.	St. Mary's HS, Kannamaly	Kannamaly P.O., 682008	0484	2247930	HS
50.	St. Mary's HS, Kandanad	Kandanad P.O., 682305	0484	2792752	HS
51.	Our Lady of Fathima Girls HS, Kumbalangi	Kumbalangi P.O., 682007	0484	2240834	HS
52.	St. Peter's HSS, Kumbalangi	Kumbalangi P.O., 682007	0484	2240035	HSS
53.	St. Ignatious HSS & VHSS, Kanjiramattom	Kanjiramattom P.O., 682315	0484	2746340	HSS & VHSS
54.	RPMHS, Kumbalam	Kumbalam P.O., 682506	0484	2701401	HS
55.	St. Augustin's GHS, Kuzhippilly	Ayyampilly P.O., 682501	0484	2480858	HS
56.	LLCHS, Mattanchery	Mattanchery P.O., 682002	0484	2222422	HS
57.	HEHMMHS, Mattanchery	Mattanchery P.O., 682002	0484	2229535	HS
58.	St. Louis HS, Mundaveli	Mundaveli P.O., 682007	0484	2235891	HS
59.	Little Flower HS, Njarakkal	Njarakkal P.O., 682505	0484	2493892	HS
60.	Bhagavathy Vilasom HS, Nayarambalam	Nayarambalam P.O., 682509	0484	2495724	HS
61.	Santa Cruz HS, Ochanthuruth	Ochanthuruthu P.O., 682508	0484	2493714	HS
62.	St. Sebastian's HSS, Palluruthy	Palluruthy P.O., 682005	0484	2233582	HSS
63.	Our Lady's CGHS, Palluruthy	Palluruthy P.O., 682005	0484	2220575	HS
64.	SDPY Girls VHSS, Palluruthy	Industrial Estate P.O., 682006	0484	2232056	VHSS
65.	MMOVHSS, Panayappilly	Mattanchery, 682002	0484	2226151	VHSS

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66.	St. Thomas Girls HS, Perumanoor	Perumanoor P.O., 682015	0484	2665377	HS
67.	Hidayathul Islam HS, Ponnarimangalam	Mulavucad P.O., 682504	0484	2350606	HS
68.	St. Ritas HS, Ponnurunny	Vyttila P.O., 682019	0484	2344528	HS
69.	Panangad VHSS	Panangad P.O., 682506	0484	2700258	VHSS
70.	Christ King CGHS, Ponnurunny	Vyttila P.O., 682019	0484	2302155	HS
71.	KPMHSS, Poothotta	Poothotta P.O., 682307	0484	2792115	HSS & VHSS
72.	Sree Narayana HSS, Trikkannarvattom	Ayyappankavu, 682018	0484	2392212	HSS
73.	St. Mary's HSS, Thalacode	Thalacode P.O., 682314	0484	2712917	HSS
74.	Sacred Heart HSS, Thevara	Thevara P.O., 682013	0484	2664640	HSS
75.	SNDP HSS, Udayamperoor	Nadakkavu P.O., 682317	0484	2792036	HSS
76.	SDPY Boys HSS, Palluruthy	Industrial Estate P.O., 682006	0484	2231462	HSS
77.	St. Mary's HS, Vallarpadom	Vallarpadom P.O., 682031	0484	2290423	HS
78.	St. Antony's HSS, Kacheripady	Ernakulam North P.O., 682018	0484	2353294	HSS
79.	CCPLMAIHS, Perumanoor	Perumanoor P.O., 682015	0484	2358491	HS
80.	St. John De Britto's AIHS, Fortcochin	Kochi, 682001	0484	2217068	HS
81.	St. Joseph's HS, Chullickal	Palluruthy P.O., 682005	0484	2222099	HS
82.	HSS of Jesus, Kothad	Kothad P.O., 682027	0484	2431590	HSS
83.	St. Mary's HS, Palliport	Palliport P.O., 683515	0484	2489660	HS
84.	St. Mary's AIGHS, Fortcochin	Fortcochin, 682001	0484	2215262	HS
85.	Loretto AIHS, Saudi	Mundamvely P.O., 682507	0484	2221388	HS
86.	Sri Gujarathi Vidyalaya HS, Mattanchery	Mattanchery P.O., 682002	0484	2223230	HS
87.	St. Joseph's CGHS, Tripunithura	Tripunithura P.O., 682301	0484	2778385	HS
88.	Hail Mary EMHS, Perumpally	Mulanthuruthy P.O., 682314	0484	2740229	HS
89.	Lobelia EMHS, Nayarambalam	Nayarambalam P.O., 682509	0484	2492307	HS
90.	ACS EMHS, Kaloore	Kaloore P.O., 682017	0484	2530380	HS
91.	St. Jude's EMHS, Karanakodam	Thammanam P.O., 682032	0484	2336969	HS
92.	Lady of Hope AIHS, Vypeen	Azheekkal P.O., 682510	0484	2502330	HS
93.	Aasia Bai EMHS, Mattanchery	Mattanchery P.O., 682002	0484	2229555	HS
94.	MPMHS, Thammanam	Thammanam P.O., 682032	0484	2334083	HS
95.	Georgian Academy EM School, Thiruvankulam	Thiruvankulam P.O., 682305	0484	2778321	HS
96.	Sree Venkiteswara EMHS, Thripoonithura	Thripoonithura P.O., 682301	0484	2783005	HS
97.	St. Joachims HS, Kaloore	Kaloore P.O., 682017	0484	2348054	HS
98.	Fr. Augustino Vicini's Special School	Mattanchery, 682002			HS

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99.	St. Dominic's EM HS, Palluruthy	Palluruthy P.O., 682006	0484	2232342	HS
100.	St. George's HS, Poonithura	Poonithura P.O., 682317	0484	2307012	HS
101.	Govt. HSS & VHSS, Maneed	Maneed P.O., 686726	0485	2246214	HSS & VHSS
102.	Govt. VHSS, East Marady	Marady East P.O., 686673	0485	2832948	VHSS
103.	Govt. Model HSS, Muvattupuzha	Muvattupuzha P.O., 686661	0485	2832850	HSS & VHSS
104.	Govt. HSS, Sivankunnu	Muvattupuzha P.O., 686661	0485	2831363	HSS
105.	Govt. HSS, Namakuzhi	Mulakulam North P.O., 686664	0485	2243626	HSS
106.	Govt. HSS, Ooramana	Ooramana P.O., 686730	0485	2870498	HSS
107.	Govt. HS, Thirumarady	Thirumarady P.O., 686687	0485	2875664	VHSS
108.	Govt. HSS, Piravom	Piravom P.O., 686664	0485	2243556	HSS
109.	Govt. Model HSS, Palakuzha	Palakuzha P.O., 686686	0485	2252133	HSS
110.	Govt. HSS, Pampakuda	Pampakuda P.O., 686687	0485	2272665	HSS
111.	Govt. HSS, Mamalassery	Mamalassery P.O., 686664	0485	2272215	HSS
112.	Govt. HSS, Pezhakkappilly	Pezhakkappilly P.O., 686674	0485	2812198	HSS
113.	Govt. HSS, Athanickal	Mannathur P.O., 686723	0485	2875099	HSS
114.	Govt. East HS, Muvattupuzha	Muvattupuzha P.O., 686661	0485	2834980	HS
115.	Govt. TTI, Muvattupuzha (Lab School)	Muvattupuzha P.O., 686661	0485	2832180	TTI School
116.	St. Sebastine's, Anicadu	Avoly P.O., 686667	0485	2832937	HS
117.	St. Mary's HSS, Arakuzha	Arakuzha P.O., 686672	0485	2256391	HSS
118.	St. Joseph's Girls HS, Arakuzha	Arakuzha P.O., 686672	0485	2256385	HS
119.	Sacred Heart HS, Ayavana	Ayavana P.O., 686676	0485	2283097	HS
120.	St. Peter's HSS, Elanji	Elanji P.O., 686665	0485	2257492	HSS
121.	Iype Memorial HS, Kaloore	Kaloore P.O., 686668	0486	2267576	HS
122.	St. Augustine's HSS, Kalloorkad	Kalloorkad P.O., 686668	0485	2289263	HSS
123.	High School, Koothattukulam	Koothattukulam P.O., 686662	0485	2252989	HS
124.	St. Paul's Girls HS, Mutholapuram	Mutholapuram P.O., 686672	0485	2258357	HS
125.	NSS HS, Muvattupuzha	Muvattupuzha Market P.O., 686673	0485	2830626	HS
126.	SNDP HSS, Muvattupuzha	Muvattupuzha P.O., 686661	0485	2835030	HSS
127.	St. Augustine's Girls HSS, Muvattupuzha	Muvattupuzha P.O., 686661	0485	2830626	HSS
128.	MTM HS, Pampakuda	Pampakuda P.O., 686667	0485	2272221	HSS
129.	MKM HSS, Piravom	Piravom P.O., 686664	0485	2242269	HSS
130.	St. Joseph's HS, Piravom	Piravom P.O., 686664	0485	2242239	HS
131.	High School, Ramamangalam	Ramamangalam P.O., 686663	0485	2278171	HS
132.	St. John's Syrian HSS, Vadakara	Oliyapuram P.O., 686679	0485	2252302	HSS
133.	Little Flower Girls HS, Vadakara	Oliyapuram P.O., 686679	0485	2251222	HS
134.	Mar Stephen VHSS, Valakom	Kunnackal P.O., 682316	0485	2208629	VHSS
135.	Infant Jesus HS, Vazhakulam	Vazhakulam P.O., 686670	0485	2260405	HS

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136.	St. Little Teresas Girls HS, Vazhakulam	Muvattupuzha, 686670	0485	2260049	HS
137.	St. John's HS, Pulinthanam	Pothanikkad, 686671	0485	2562044	HS
138.	St. Paul's HS, Veliyanad	Veliyanadu P.O., 682319	0484	2747005	HS
139.	Vimalamatha HS, Kadalikkad	Kadalikkad P.O., 686670	0485	2261257	HS
140.	NSS High School, Mannoor	Keezhillam P.O., 683541	0484	2652125	HS
141.	St. Sebastian's HS, Memadangu	Memadangu P.O., 686672	0486	2278470	HS
142.	St. Mary's HS, Nakapuzha	Nakapuzha P.O., 686668	0485	2289340	HS
143.	Tharbiyath Trust HSS & VHSS, Kavunkara	Muvattupuzha Market P.O., 686673	0485	2833267	HSS & VHSS
144.	Ebenezer HS, Veetoor	Nellad P.O., 686721	0484	2767088	HS
145.	MRSV HS, South Mazhuvannoor	Mazhuvannoor South P.O., 686669	0484	2768666	HS
146.	St. George's TTI, Vazhakulam (Lab School)	Vazhakulam P.O., 686670	0485	2260524	TTI School
147.	Assisi School for Deaf, Muvattupuzha	Muvattupuzha P.O., 686661	0485	2835860	HS
148.	Nirmala HS, Muvattupuzha	Muvattupuzha P.O., 686661	0485	2832489	HS
149.	Bappuji EMHS, Koothattukulam	Koothattukulam P.O., 686662	0485	2252103	HS
150.	Fathima Matha EMHS, Piravom	Piravom P.O., 686664	0485	2242203	HS
151.	HMHS, Randarkara	Muvattupuzha, 686661	0485	2835239	HS
152.	Guardian Angel's EMHS, Mannoor	Keezhillam P.O., 683541	0484	2653611	HS
153.	Infant Jesus EMHS, Koothattukulam	Koothattukulam P.O., 686662			HS
154.	MIET HS, Kavumkara	Muvattupuzha Market P.O., 686673	0485	2833125	HS
155.	Vivekananda Vidyalayam	Kadathi, Muvattupuzha			HS
156.	Govt. HSS for Girls, Aluva	Aluva P.O., 683101	0484	2626493	HSS
157.	Paliyam Govt. HSS, Chendamangalam	Chendamangalam P.O., 683512	0484	2518063	HSS
158.	Govt. HSS, Chengamanad	Chengamanad P.O., 683578	0484	2474181	HSS
159.	Govt. VHSS, Kaitharam	Kaitharam P.O., 683519	0484	2442397	VHSS
160.	Govt. HSS & VHSS, Kalamassery	Kalamassery P.O., 683104	0484	2556944	HSS & VHSS
161.	Govt. VHSS, Ambalamugal	Ambalamugal P.O., 682302	0484	2720264	VHSS
162.	Govt. HSS, Manjapra	Manjapra P.O., 683581	0484	2690061	HSS
163.	Govt. HSS, North Paravoor	North Paravoor P.O., 683513	0484	2446650	HSS
164.	Govt. Girls HSS, North Paravoor	North Paravoor P.O., 683513	0484	2442607	HSS
165.	Govt. HSS, Poothrikka	Poothrikka P.O., 682308	0484	2763240	HSS
166.	Govt. HSS, Puliyanam	Puliyanam P.O., 683105	0484	2472180	HSS
167.	Govt. HSS, South Vazhakulam	South Vazhakulam P.O., 683105	0484	2678258	HSS
168.	Govt. HSS, Puthiyakavu	Vadakkekara P.O., 683522	0484	2443173	HSS
169.	Govt. HSS, Ezhikkara	Ezhikkara P.O., 683513	0484	2508931	HSS
170.	Govt. HS, West Kadungallur	Aluva, 683010	0484	2603911	HS

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171.	Govt. HSS, Kongorppilly	Kongorppilly P.O., 683525	0484	2515505	HSS
172.	Govt. HS, Kuttamassery	Thottumugham P.O., 683105	0484	2624980	HS
173.	Govt. HSS, Muppathadom	Muppathadom P.O., 683110	0484	2559635	HSS
174.	Govt. HSS, Mookannoor	Mookannur P.O., 683577	0484	2615249	HSS
175.	MGM Govt. HSS, Nayathode	Nayathode P.O., 683572	0484	2610230	HSS
176.	Govt. HSS, Pazhanthottam	Pazhanthottam P.O., 683565	0484	2689222	HSS
177.	Govt. VHSS, Thrikkakara	V.K. Coloney P.O., 682021	0484	2410879	VHSS
178.	Govt. HSS, South Ezhippuram	South Vazhakulam P.O., 683105	0484	2679198	HSS
179.	Govt. HSS, Edathala	Edathala P.O., 683561	0484	2637424	HSS
180.	Govt. HSS, Eloor	Kutikkattukara P.O., 683504	0484	2545440	HSS
181.	Govt. HS, Binanipuram	Binanipuram P.O., 683502	0484	2557304	HS
182.	Govt. HSS, Kadayirippu	Kadayirippu P.O., 682311	0484	2762085	HSS
183.	Govt. HS, Mudickal	Mudickal P.O., 683547			HS
184.	Govt. HSS, Chowara	Chowara P.O., 683571			HSS
185.	Model Residential School, Aluva	Thottumugham P.O., 683105	0484	2623673	HSS
186.	KEM HS, Alangad	Alangad P.O., 683511	0484	2671556	HS
187.	SNDP HSS, Aluva	Aluva P.O., 683101	0484	2621010	HSS
188.	The Standard Pottery works HS, Aluva	Thaikkattukara P.O., 683106	0484	2629959	HS
189.	St. Francis Girls HSS, Aluva	Aluva P.O., 683101	0484	2625080	HSS
190.	St. Mary's HS, Aluva	Aluva P.O., 683101	0484	2625430	HS
191.	St. Joseph's HS, Angamali	Angamaly P.O., 683572	0484	2453543	HS
192.	Holy Family Girls HS, Angamaly	Angamaly P.O., 683572	0484	2453497	HS
193.	St. Joseph's HS, Chathedom	Thiruthipuram P.O., 680667	0484	2487094	HS
194.	Elenthikkara High School	Elenthikkara P.O., 683594	0484	2487518	HS
195.	St. Sebastian's HSS, Gothuruthy	Gothuruthy P.O., 683523	0484	2483225	HSS
196.	Mar Athanasius HS, Kakkanad	Kakkanad P.O., 682030	0484	2428822	HS
197.	Brahmanandodayam HSS, Kalady	Kalady P.O., 683574	0484	3463141	HSS
198.	St. Sebastian's HS, Kanjoor	Kanjoor P.O., 683575	0484	2463063	HS
199.	St. Joseph's CGHS, Kanjoor	Kanjoor P.O., 683575	0484	2466777	HS
200.	St. John's JSHS, Kaniattunirappu	Kuzhiyara P.O., 682312	0484	2711079	HS
201.	St. Joseph's Girls HS, Karukutty	Karukutty P.O., 683576			HS
202.	Star Jesus HS, Karukutty	Karukutty P.O., 683576	0484	2612324	HS
203.	St. Joseph's HS, Kidangoor	Kidangoor P.O., 683572	0484	2617954	HS
204.	St. Joseph's HS, Kizhakkambalam	Kizhakkambalam P.O., 683562	0484	2682536	HS
205.	St. Peter's VHS & HSS, Kolenchery	Kolenchery P.O., 682311	0484	2760269	HSS & VHSS
206.	St. Philomina's HSS, Koonammavu	Koonammavu P.O., 683518	0484	2512364	HSS
207.	Christ Raj HS, Kuttipuzha	Kunnukara P.O., 683524	0484	2478508	HS
208.	St. Thomas HSS, Malayattoor	Malayattoor P.O., 683587		2468208	HSS



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209.	NSS HSS, Manickamangalam	Kalady, 683574	0484	2462535	HSS
210.	NSS Girls HS, Manickamangalam	Kalady, 683574			HS
211.	Sacred Heart Orphanage HS, Mookkannoor	Mookkannoor P.O., 683577	0484	2615402	HS
212.	SNM HSS, Moothakunnam	Moothakunnam P.O., 683516	0484	2482230	HSS
213.	Mar Athanasius HS, Nedumbassery	Athani P.O., 683585	0484	2475388	HS
214.	St. Mary's HSS, Morakkala	Kumarapuram P.O., 683565	0484	2682879	HSS
215.	SNDP HS, Neeleswaram	Neeleswaram P.O., 683584	0484	2460260	HS
216.	Samootham HS, North Paravoor	North Paravoor P.O., 683513	0484	2443588	HS
217.	NSS HSS, Parakadavu	Kurumassery P.O., 683579	0484	2473119	HSS
218.	SNV Sanskrit HSS, North Paravoor	North Paravoor P.O., 683513	0484	2449744	HSS
219.	St. Alosius HS, North Paravoor	North Paravoor P.O., 683513	0484	2443341	HS
220.	MGM HS, Puthencruze	Puthencruze P.O., 682308	0484	2730140	HS
221.	St. George HS, Puthenpally	Varapuzha P.O., 683517	0484	2514979	HS
222.	St. Joseph's Girls HS, Poovathussery	Parakkadavu P.O., 683579	0484	2471060	HS
223.	Sree Narayana HSS, North Paravoor	North Paravoor p.O., 683513	0484	2442196	HSS
224.	Akavoor HS, Sreemoolanagaram	Sreemoolanagaram P.O., 683580			HS
225.	Rajarshi Memorial HSS, Vadavucode	Vadavucode P.O., 682310	0484	2731109	HSS
226.	St. Joseph's HS for Girls, Varapuzha	Edampadam, 683517	0484	2512191	HS
227.	Cardinal HSS, Thrikkakara	BMC P.O., 682021	0484	2577135	HSS
228.	St. George's HS, Vennikulam, Kokkapilly	Kokkapilly P.O., 682305	0484	2712205	HS
229.	VCS HSS, Puthenvelikkara	Puthenveli P.O., 683594	0484	2487498	HSS
230.	Mar Augustine's HS, Thuravoor	Thuravoor P.O., 683586	0484	2617866	HS
231.	Holy Infant's Boys HS, Varapuzha	Varapuzha P.O., 683517	0484	2512219	HS
232.	St. Philomina's HS, Thiruvaniyoor	Thiruvaniyoor P.O., 682323	0484	2730295	HS
233.	Kalady Plantation HS, Kalady	Kalady Plantation P.O., 683583	0484	2696693	HS
234.	St. Thomas HS, Ayroor	Ayroor P.O., 683579	0484	2478234	HS
235.	Fr. Menachery CTHS, Karumalloor	Manakkappady P.O., 683511			HS
236.	DD Sabha HS, Karimpadam	Chendamangalam P.O., 683512	0484	2519400	HS
237.	Bethlehem Girls HS, Njaralloor	Kizhakkambalam P.O., 683562	0484	2682083	HS
238.	St. Joseph's Girls HS, Chengal	Kalady P.O., 683574	0484	2460577	HS

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239.	Nasrath-ul Islam VHSS, Marampally	Marampally P.O., 683107	0484	2677858	VHSS
240.	Mar Coorilose Memorial HSS, Pattimattom	Pattimattom P.O., 683562	0484	2688620	HSS
241.	Holy Ghost CGHSS, Thottakkattukara	Thottakkattukara P.O., 683108	0484	2606031	HSS
242.	Holy Family High School, Thabore	Mookkannoor, 683577	0484	2450395	HS
243.	Little Flower HS, Panaikulam	Panaikulam P.O., 683511	0484	2512570	HS
244.	HMYs HSS, Kottuvallikadu	Moothakunnam P.O., 683516	0484	2484182	HSS
245.	HMT Educational Society HS, Kalamassery	Kalamassery P.O., 683104	0484	2559780	HS
246.	School for the Blind, Keezhmad, Aluva	Thottumugham P.O., 683105	0484	2623412	UP
247.	St. Clare School for Deaf, Manikkamangalam	Kalady P.O., 683574			HS
248.	Christava Mahilalayam Girls HS, Aluva	Aluva P.O., 683105	0484	2606151	HS
249.	The Alwe Settlement HS, Aluva	Aluva P.O., 683102	0484	2604429	HS
250.	Nirmala EMHS, Nazareth, Aluva	Aluva P.O., 683101	0484	2623334	HS
251.	FACT Township HS, Eloor	Udyogamandal P.O., 683501	0484	2553297	HS
252.	Rajagiri HS, Kalamassery	Kalamassery P.O., 683104	0484	2532592	HS
253.	St. Joseph's HS, Koonammavu	Koonammavu P.O., 683518	0484	2515383	HS
254.	Guardian Angels HS, Manjummel	Manjummel P.O., 683501	0484	2557140	HS
255.	St. Joseph's EMHS, Thrikkakara	Kalamassery P.O., 683104	0484	2540389	HS
256.	Vidyadhiraja Vidya Bhavan EMHS, Aluva	Cheerakkadu, 683101	0484	2627178	HS
257.	Mar Athanasius Memorial EMHS, Puthencruze	Puthencruze P.O., 682308	0484	2730085	HS
258.	Hill Valley HS, Thrikkakara	Changampuzha Nagar P.O., 682033	0484	2577343	HS
259.	Mary Matha EMHS, Thrikkakara	BMC P.O., 682021	0484	2425288	HS
260.	St. Ann's EMHS, Eloor	Udyogamandal P.O., 683501	0484	2541144	HS
261.	Islamic High School, Aluva	Aluva P.O., 683101	0484	2625198	HS
262.	St. John the Baptist CSI EMHS, Aluva	Aluva P.O., 683101	0484	2625396	HS
263.	KMEA Al Manar EMHS, Kuzhuvilipady	Edathala, 683561	0484	2411374	HS
264.	Vijnanadeepam EMHS, Edanad	Sreemoolanagaram P.O., 683580			HS
265.	De Paul EMHS, Angamaly	Angamaly South P.O., 683573	0484	2455334	HS
266.	St. Francis De Assisi HS, Asokapuram	Asokapuram P.O., 683510			HS
267.	KNM MESHS, Edathala	Edathala P.O., 683561			HS

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268.	Alhuda EMHS, Panaikulam	Panaikulam P.O.,			HS
269.	St. Jude EM School, Ambalamedu	Ambalamedu P.O.,			HS
270.	Govt. HSS, Perumbavoor	Perumbavoor P.O., 683542	0484	2524268	HSS
271.	Govt. HSS for Girls, Perumbavoor	Perumbavoor P.O., 683542	0484	2596186	HSS
272.	Govt. VHSS, Odakkali	Asamannoor, 683549	0484	2658061	VHSS
273.	Govt. VHSS, Iringole	Iringole P.O., 683548	0484	2524615	VHSS
274.	Govt. HSS, Cheranelloor	Koovappady, 683544	0484	2640869	HSS
275.	Govt. Model HSS, Cheruvattoor	Kothamangalam, 686691	0485	2548080	HSS
276.	Govt. VHSS, Kadavoor	Kadavoor P.O., 686671	0485	2566626	VHSS
277.	Govt. HSS, Chathamattam	Paingottoor, 686727	0485	2568606	HSS
278.	Govt. VHSS, Neriamangalam	Neriamangalam P.O., 686693	0485	2554256	HSS & VHSS
279.	Govt. VHSS, Pallarimangalam	Pallarimangalam P.O., 686671	0485	2562340	HSS & VHSS
280.	Govt. HS, Mathirappilly	Kothamangalam, 686691	0485	2823148	VHSS
281.	Govt. HSS, Akanad	Mudakuzha P.O., 683346	0484	2645013	HSS
282.	Govt. HS, Ayyankavu	Kuthukuzhi P.O., 686691	0485	2860569	HS
283.	Govt. HSS, Kallil	Methala, 683549	0484	2654394	HSS
284.	Govt. HSS, Kuttampuzha	Kothamangalam, 686691	0485	2588263	HSS
285.	Govt. HS, Poika	Vadattupara, Kothamangalam, 686694	0485	2582204	HS
286.	DIET, Kuruppumpady (Lab School)	Perumbavoor, 683545	0484	2526457	TTI School
287.	St. Mary's HS, Pothanikkad	Kothamangalam, 686671	0485	2562744	HS
288.	Fr. Joseph Memorial HSS, Puthuppady	Puthuppady P.O., 686673	0485	2815766	HSS
289.	St. Augustine's Girls HSS, Kothamangalam	Kothamangalam P.O., 686691	0485	2862307	HSS
290.	Mar Basil HSS, Kothamangalam	Kothamangalam P.O., 686691	0485	2862372	HSS
291.	St. George's HSS, Kothamangalam	Kothamangalam P.O., 686691	0485	2862479	HSS
292.	St. Joseph's HS, Velielchal	Thattekkad P.O., 686691	0485	2571040	HS
293.	St. Stephen's HSS, Keerampara	Kothamangalam, 686691	0485	2570136	HSS
294.	St. Stephen's Girls HS, Keerampara	Kothamangalam, 686691	0485	2570237	HS
295.	MD HSS, Tholely	Ayroorpadam P.O., 686692	0485	2843387	HS
296.	Devaswam Board HS, Thrikkariyoor	Kothamangalam, 686692	0485	2822686	HS
297.	Mar Elias HSS, Kottappady	Kottappady P.O., 686695	0485	2843312	HSS
298.	NSS HSS, Varappetty	Varappetty P.O., 686691	0485	2282101	HSS
299.	TV Joseph Memorial HS, Pindimana	Chelad P.O., 686681	0485	2570608	HS
300.	St. John's HSS, Kavalangad	Nellimattam P.O., 686693	0485	2850024	HSS
301.	Little Flower HS, Oonnukal	Kothamangalam, 686693	0485	2855460	HS
302.	Asram HSS, Perumbavoor	Perumbavoor, 683542	0484	2522368	HSS

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303.	Jayakeralam HSS, Pulluvazhy	Perumbavoor, 683541	0484	2522369	HSS
304.	Ganapathy Vilasom HS, Koovappady	Perumbavoor, 683544	0484	2640299	HS
305.	St. Mary's HS, Krariyeli	Kombanad P.O., 683555	0484	2648221	HS
306.	Salem HS, Vengola	Perumbavoor, 683556	0484	2524812	VHSS
307.	Mar Kouma HSS, Vengoor	Vengoor P.O., 683546	0484	2645035	HSS
308.	HSS, Valayanchirangara	Perumbavoor, 683556	0484	2657022	HSS
309.	Jama-ath HSS, Thandekkad	Mudickal P.O., 683547	0484	2527716	HSS
310.	St. Thomas HSS, Keezhillam	Keezhillam P.O., 683541	0484	2653022	HSS
311.	MGM HSS, Kuruppumpady	Perumbavoor, 683545	0484	2523415	HSS
312.	Sree Narayana HSS, Okkal	Okkal P.O., 683550	0484	2462175	HSS
313.	Mar Augen HS, Kodanad	Perumbavoor, 683544	0484	2546268	HS
314.	St. Joseph's HSS, Paingottoor	Paingottoor P.O., 686671	0485	2562181	HSS
315.	Sobhana EMHS, Kuthukuzhi	Kuthukuzhi P.O., 686691	0485	2862516	HS
316.	Anitha Vidyalaya, Thannipuzha	Okkal P.O., 683550	0484	2462795	HS
317.	National School, Vengola	Vengola P.O., 686554	0484	2525693	HS
318.	Queen Mary's EMHS, Perumbavoor	Mudickal P.O., 683547	0484	2593417	HS
319.	Hidayathul Islam HS, Kandanthara	Allapra P.O., 683553	0484	2590089	HS
320.	Al Ashar EMHS, Mukkoottinada	Ponjassery P.O., 682547	0484	2528636	HS

### ANNEXURE 1(B)

#### MEDICAL COLLEGES IN THE DISTRICT

Sl. No.	Name	Phone No.	Nodal Officer	Mobile No.	Ambulance
1	AIMS Kochi	2801234	Dr. Sanjeev Singh	9447133964	Available
2	Co-Op Medical College	2411000	Dr. Jayasurya	9495600084	Available
3	MOSC Kolanchery	3055555	Dr. Abraham Ittyachan	9447291662	Available

### ANNEXURE 2 (A)

#### CHECKLIST OF DISTRICT EMERGENCY OPERASTION CENTRE (DEOC) ERNAKULAM

Sl. No.	Items	No.	Model & Configuration	Serial No.
1.	Personal Computer	1	WIPRO, Pentium core 2 Duo2.8GHZ, 2Gb DDR2, 250GB HDD	09DAXZ6620
2.	Speaker	2	Logitech	0026
3.	Note Book and Adapter	1	WIPRO-ego, Intel Centrino, 2GB DDR2 250GB SATA,32 OS	09GBQW00400002 Adapter 0335A1965
4.	Printer	1	Konica Minolta PagePro 1390	2480005189
5.	VHF Radio	1	MOTOROLA GM 338	103TKEN239

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

6.	Repeater	2	MOTOROLA-CDR 700 MOTOROLA-CDR 700	103KKMR010 103KKMR002
7.	Cable	2	RG 217	
8.	Power supply	1	BM-101, 13.5v-15A	260926909
9.	Battery	5	EXIDE INVA QUEEN500+(4), C20 150Ah XSTAM Tubular PRIME 100(1)	
10.	UPS	1	MICROTEK	UPSEB 600
11.	Portable Search Light	2	Sharp shooter	
12.	Electric Drill & Drill Spindle	1+1	BOSCH GSB 13 RE Drill Spindle - ¼’’	
13.	Fire Extinguisher	2	KANEX DCP-Suitable classes-ABC KANEX CO2-Suitable Classes-BC	
14.	Sanjeevani acoustic life detector- probe, electronic Assembly, Headphone set	1		
15.	Radio(FM,AM,SW)	1	PHILIPS, TRISHUL-RL 118/00	
16.	Megaphone	1	AHUJA-AM-20H, 20w	
17.	Petromax	1		
18.	First Aid Box Bandage, scissor, savlon, cotton, sterile Gauze Swab, Georon pain reliever, sterile Gauze Dressing Pads, microbicidal oilment, Dusting powder, Eye drops, Paracetamol Tablets	2		
19.	Safety Helmet	3		
20.	Moving Head Search Light- Battery, Adapter	2		
21.	Mask	6		
22.	Marine Life Jacket	1	DY5564-1	
23.	Folding stretcher	1		
24.	Table	4		
25.	Extension Box	1	MIHIR	

### ANNEXURE 2 (B)

#### COMMUNICATION FACILITIES

1.	24 hours functioning Tele Phone (0484-2423513)	1	BSNL A0012089
2.	Toll Free Number(1077)	1	BSNL A0015962
3.	HOTLINE to NAVY	1	BSNL A0017173
4.	SMS SENDER	1	MATRIX SIMADO GDT11 IMEI:359587011911065
5.	Ethernet Switch	1	NETGEAR FS 608 v2
6.	USB Print Server	1	NETGEAR PS121 v2

ANNEXURE 2 (C)

**LIST OF DEPARTMENTAL RESOURCE INVENTORIES**

Sl. No.	Items	No. of equipments in				
		Taluk	DEOC	Fire Station	Police	Fisheries
1	Air lifting Bags	-	-	12	-	-
2	Aska/Inflatable Emergency Light	-	-	9	14	-
3	Billhook	-	-	13	-	-
4	Bolt cutter	4	-	7	-	-
5	Chain Saw (Electric)	-	-	4	-	-
6	Chain Saw (Petrol)	-	-	17	-	-
7	Concrete Jack Hammer (electric)	-	-	-	-	-
8	Crow bar	-	-	20	1	-
9	Dewatering Pump	-	-	-	-	-
10	Extension ladder	-	-	35	-	-
11	Fire Proximity Suit	-	-	14	-	-
12	Gas light (LPG/Kerosene)	-	-	-	-	-
13	Gas/power cutter (w/o Oxygen cylinder)	-	-	1	1	-
14	Gas/power cutter with Oxygen cylinder)	-	-	1	-	-
15	Gloves	-	2	2	1200	-
16	Hand Saw	4	-	7	-	-
17	Helmet	-	6	23	718	-
18	Hydraulic cutter with spreader / Jacky	-	-	12	-	-
19	Life jacket	-	2	33	15	10
20	Life locator	-	-	13	-	-
21	Lifebuoy	-	-	36	5	5
22	Nylon Rope (16mm)	-	-	-	2	-
23	Nylon Rope (24mm)	-	-	13	-	-
24	Pick axe	-	-	14	5	-
25	Portable Generator	-	-	-	1	-
26	Power saw	-	-	2	-	-
27	Rain Coat	-	-	12	230	-
28	Rechargeable Torch	5	2	17	137	-
29	Rope ladder	-	-	2	-	-
30	Rubber dingy	-	-	3	-	-

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31	Rubber dingy with engine	-	-	4	-	1
32	Scuba Set	-	-	7	-	-
33	Shovel	6	-	21	4	-
34	Spade	-	-	13	-	-
35	Turpolin	4	-	-	-	-
36	Underwater search light	-	-	1	-	-
37	Printer/Scanner/Copier (may be for the Control Room)	-	-	-	-	-
38	Fax machines (may be for the Control Room)	-	-	-	-	-
39	Digital Camera (do)	-	-	-	-	-
40	Toll Free Connection No. (do)	-	1	-	-	-
41	Night vision Equipment	-	-	-	1	-
42	E Flare Lights	-	-	-	95	-
43	Dragon search Light	-	-	-	10	-
44	Sound Level meter	-	-	-	1	-
45	Binoculars	-	-	-	1	-
46	Sledge Hammer	3	-	-	-	-
47	Iron Hammer	1	-	-	-	-
48	Fire extinguisher	-	2	-	-	-
49	Megaphone	-	1	-	-	-
50	Petromax	-	1	-	-	-
51	Sanjeevani Acoustic Life Detector	-	1	-	-	-
52	Impact Drill	-	1	-	-	-
<b>TOTAL</b>		<b>27</b>	<b>19</b>	<b>368</b>	<b>2441</b>	<b>16</b>

### ANNEXURE 3 (A)

#### CONTACT NUMBER OF PANCHAYATHS

Sl. No.	Panchayath	Land Phone No.	Mob. No. of President
<b>Paravur Block</b>			
1	Chendhamangalam	0484-2518568	9496045702
2	Kottuvally	0484-2513111	9446413903
3	Ezhikara	0484-2508475	9744723197

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4	Vadakkekara	0484-2442265	9847141183
5	Chittattukara	0484-2442440	9605265580
<b>Aalangadu Block</b>			
6	Karumallur	0484-2670478	9744773332
7	Varapuzha	0484-2513003	9496045714
8	Aalangadu	0484-2512267	9747232960
9	Kadungallur	0484-2270673	9496045718
<b>Angamaly Block</b>			
10	Mookkannur	0484-2615698	9496045720
11	Thuravur	0484-2617517	9656287126
12	Manjapra	0484-2690392	9526493946
13	Karukutty	0484-2612231	9496045726
14	Ayyampuzha	0484-2696690	9847478989
15	Kanjoor	0484-2462254	9496045730
16	Kalady	0484-2462394	9847525637
17	Malayattor- Neeleswaram	0484-2462237	9961139524
<b>Koovapdy</b>			
18	Ashamannur	0484-2658245	9496045736
19	Mudakkuzha	0484-2645057	9496045738
20	Vengoor	0484-2645037	9496045740
21	Okkal	0484-2461709	9496045744
22	Koovappady	0484-2649025	9447140243
23	Rayamangalam	0484-2653416	9496045742
<b>Vazhakulam Block</b>			
24	Vengola	0484-2522432	9447610025
25	Vazhakulam	0484-2677232	9496045750
26	Kizhakambalam	0484-2680222	9961715317
27	Choornikkara	0484-2623530	9388951880
28	Edathala	0484-2837132	9447618303
29	Keezhmadu	0484-2623612	9496045758
<b>Edapally Block</b>			
30	Kadamakudy	0484-2430344	9496045760
31	Cheranellor	0484-2430441	9995071217
32	Mulavukadu	0484-2750880	9388948588
33	Elamkunnappuzha	0484-2493363	9496045772
<b>Vypin Block</b>			
34	Njarakkal	0484-2492351	9496045766
35	Nayarambalam	0484-2493339	9048069909
36	Edavanakkadu	0484-2506597	9496045770
37	Pallipuram	0484-2488135	9496045774



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38	Kuzhipally	0484-2488236	9496045776
<b>Palluruthy</b>			
39	Chellanam	0484-2247450	9847881578
40	Kumbalangi	0484-2240249	9496045780
41	Kumbalam	0484-2700260	9447818286
<b>Mulamthuruthy Block</b>			
42	Udayamperoor	0484-2792063	9995115904
43	Mulamthuruthy	0484-2740250	9496045786
44	Chottanikara	0484-2711048	9496045788
45	Edakkattuvayal	0484-2747061	9496045790
46	Amballoor	0484-2740294	9496045792
47	Maneed	0485-2246349	9496045836
<b>Vadavukodu Block</b>			
48	Poothrikka	0484-2760262	9496045794
49	Thiruvaniyoor	0484-2730029	9495171447
50	Vadavukodu- Puthenkurishu	0484-2730033	9539603833
51	Mazhuvannoor	0484-2813222	9349564421
52	Aikaranadu	0484-2760340	9496045802
53	Kunnathunadu	0484-2680223	9745105905
<b>Kothamangalam Block</b>			
54	Paingottoor	0485 - 2252334	9446813799
55	Nellikuzhy	0485-2822490	9947722021
56	Pindimana	0485-2570262	9496045810
57	Kottapady	0485-2843221	9496045812
58	Kavalangadu	0485-2859361	9496045814
59	Varappetty	0485-2284793	9947474400
60	Keerampara	0485-2570256	9496045818
61	Poothanikadu	0485-2562035	9847309370
62	Pallarimangalam	0485-2562252	9496045822
63	Kuttampuzha	0485-2588222	9496045824
<b>Pambakuda</b>			
64	Elanji	0485-2257352	9496045826
65	Piravom	0485-2242669	9496045828
66	Thirumarady	0485-2875354	9645571986
67	Kuthattukulam	0485-2251500	9847739891
68	Palakuzha	0485-2252334	9496045834
69	Pambakuda	0485-2272588	9446141455
70	Ramamangalam	0485-2277242	9447863909
<b>Parakadavu Block</b>			
71	Sree moolanagaram	0484-2600554	9496045842
72	Puthenvelikara	0484-2487034	9496045844

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73	Chengamanadu	0484-2604332	9946804203
74	Nedumbassery	0484-2477531	9496045848
75	Parakadavu	0484-2473227	9496045850
76	Kunnukara	0484-2478032	9496045852
<b>Muvattupuzha Block</b>			
77	Aavoli	0485-2260243	9496045854
78	Aarakuzha	0485-2255811	9447106477
79	Valakom	0485-2207303	9496045858
80	Payipra	0485-2814710	9496045860
81	Kallorkkadu	0485-2289225	9496045862
82	Ayavana	0485-2882222	9496045864
83	Manjallur	0485-2832219	9495495428
84	Marady	0484-2832219	9496045886

### ANNEXURE 3 (B)

#### CONTACT NUMBER OF BLOCK PANCHAYATHS

Block Panchayathu				
Sl. No.	Block	Name of President	Phone	Mob
1	Paravur	Ranjini Viswanathan	0484-2443429	944607495
2	Alangadu	Rani mathai	0484-2670486	944715653
3	Angamali	Mary antony	044-2452270	8547375431
4	Koovappadi	Paul Uthuppu		
5	Vazhakkulam	K Kunjumhammad		
6	Edappilli	Eliyamma		
7	Vypin	Soujathu Abdul Jabbar		
8	Palluruthi	Sudhambika teacher		
9	Mulanthuruthi	Reese puthenveetil		
10	Vadavucode	C k Ayyappakutty		
11	Kothamangalam	Adv.K.A Jacob		
12	Pambakuda	Sherly Stephen		
13	Parakkadavu	Adv.M K Shaji		
14	Muvattupuzha	Jose Perumbillikunnel		

**ANNEXURE 4**

**RED CROSS SENA**

Sl.No.	Name	Contact No.
1	Aby P.P	0484-2654193,9447302802
2	Antony John	0484-2677850, 8089001213
3	Antony Lopez	0484-2402733,9446717515
4	Augustine Lopez	9446343425, 944737930
5	Baburaj T.P	9746227845
6	BabyP Prabodh	9656585624, 9605800000
7	Binu Thomas	9895080804
8	Chanchal Raj	9847474848
9	Dominic Dixon C.M	9847770631
10	Franics Ambazhakadan	9633562656
11	Godwin Fernandez	9847111050
12	Hebin Pinhero	9961221100, 9995995772
13	Jaya Kumar E.G	956225005, 9995683756
14	Jobi George	9446040671, 045-2562921
15	Jose V Devassy	9847270763, 0484-2497231
16	Joseph C George	9846630193
17	Joseph T.R	9446684557
18	Jude Justine K.J	9388600298
19	Luiz K.R	9947523519
20	Manoj K Chandran	9847240861,044-2341534
21	Martin Payyappilly	9656001313, 9447970523
22	Midhun C.A	9037211162
23	Muhammad Noorsha N	9995162422
24	T.M Nooho	0484-2705607, 9961231736
25	Pradeepkumar K.R	9605676665, 0484-2705607
26	Ravikochukuttan	9747410030
27	Renjith M.D	9846363373, 0484-2633703
28	Rolfin E.X	9995058005, 9142123485
29	Romi	9895401262
30	N.P Satheesh Menon	9447076775
31	B.P Selvaraj	9846166168, 0484-2400841
32	Simson P.V	9747045515
33	Sunil K.V	9895890442
34	Sureshkumar M.N	9497024714, 8893983474
35	Syam Sundar V.S	9995522824
36	Thomas John	9961785678, 996130033
37	Unnikrishnana C.S	9847244480
38	V. Vinodkumar	9388475834, 0484-2253707

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39	Rose John	9947220700
40	V.M Cleetus	9947220700
41	Sumod M.P	9895974103
42	Salim K.A	9447124312
43	P.P. Aliyar	9446464036

### ANNEXURE 5(A)

#### POLICE

POLICE				
1	District Police Chief ,Kochi City, High Court Junction	2385000	2385003	9497996990
2	District Police Chief, Ernakulam Rural, Aluva (SP)	2623550	2624455	9497996979
3	Police control Room, Aluva	2621100		

### ANNEXURE 5(B)

#### HIGHWAY POLICE

1	Ankamali	9946500123
2	Paravur	9946500124
3	Moovattupuzha	9946500125

### ANNEXURE 5(C)

#### KOCHI CITY

Designation	Area	Contact No.
DCP L&O and Traffic	KOCHI CITY	9497996986
DCP, Crime & Admn	KOCHI CITY	9497990061
COMMANDANT	AR, KOCHI CITY	9497990235
Assistant commandant(AC)	SPECIAL BRANCH	9497990062
AC	DCRB	9497990063
AC	CRIME DETTACHMENT	9497990064
AC	NARCOTIC CELL	9497990065
AC	CONTROL ROOM	9497990066
AC	TRAFFIC WEST	9497990067
AC	TRAFFIC EAST	9497990068
AC	ERNAKULAM	9497990069

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

AC	MATTANCHERY	9497990070
AC	TRIKKAKARA	9497990071
AC	MT, ERNAKULAM	9497990080
AC (Adj)	<b>AR, KOCHI CITY</b>	9497990265
AC-2	AR, KOCHI CITY	9497990266
AC-3	AR, KOCHI CITY	9497990267
AC-4	AR, KOCHI CITY	9497990268
CI	TRAFFIC WEST	9497987099
CI	TRAFFIC EAST	9497987100
CI	CONTROL ROOM-1	9497987101
CI	CONTROL ROOM-2	9497987102
CI	ERNAKULAM CENTRAL	9497987103
CI	NORTH	9497987104
CI	SOUTH	9497987105
CI	MATTANCHERY	9497987106
CI	FORT KOCHI	9497987107
CI	PALLURUTHI	9497987108
CI	KALAMASSERY	9497987109
CI	THRIIPPUNITHURA	9497987110
CI	COASTAL P.S	
CI	LAISON, HIGH COURT	9497987111
CI	AR, KOCHI CITY	9497987112
CI	WOMEN CELL	9497987113
RI-1	AR, KOCHI CITY	9497987354
RI-2	AR, KOCHI CITY	9497987355
RI-3	AR, KOCHI CITY	9497987356
SI	<b>AMBALAMEDU.P.S</b>	9497980399
GSI	AMBALAMEDU.P.S	9497962063
SCPO(G)	AMBALAMEDU.P.S	9497932877
CPO	AMBALAMEDU.P.S	9497932994
SI	<b>PANANGAD PS</b>	9497980420
SI	PANANGAD PS	9497980460
GSI	PANANGAD PS	9497975406
SI	<b>UDAYAMPEROOR</b>	9497980434
GSI	UDAYAMPEROOR	9497961524
ASI (Gr)	UDAYAMPEROOR	9497962105
CPO	UDAYAMPEROOR	9497932978
SI	<b>HILL PALACE P S</b>	9497980410
SI	HILL PALACE P S	9497980411
ASI	HILL PALACE P S	9497975398
SI	<b>E.T.SOUTH</b>	9497980405
SI	E.T.SOUTH	9497975390
SI (G)	E.T.SOUTH	9497962060
ASI	E.T.SOUTH	9497961951

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

Ser CPO	E.T.SOUTH	9497932834
SI	<b>KALAMASSERY</b>	9497980412
SI	KALAMASSERY	9497980415
SI	KALAMASSERY	9497975400
GSI	KALAMASSERY	9497962001
ASI	KALAMASSERY	9497962162
SI	<b>THRIKKAKARA PS</b>	9497980424
SI	THRIKKAKARA PS	9497975410
GSI	THRIKKAKARA PS	9497964930
GSI	THRIKKAKARA PS	9497962042
GASI	THRIKKAKARA PS	9497962192
SI	<b>MATTANCHERRY</b>	9497980432
SI	MATTANCHERRY	9497980433
ASI	MATTANCHERRY	9497962092
ASI	MATTANCHERRY	9497962094
SR.CPO	MATTANCHERRY	9497932604
SI	<b>FORTKOCHI</b>	9497980406
SI	TOURISM	9497961956
ASI	ALWAYE	9497961959
ASI	FORT KOCHI	9497961962
CPO	FORT KOCHI	9497961964
SI	<b>HARBOUR PS</b>	9497980408
ASI	HARBOUR PS	9497975289
GASI	HARBOUR PS	9497932585
SI	<b>PALLURUTHI</b>	9497980418
Addl SI	PALLURUTHI	9497975409
ASI	PALLURUTHI	9497975404
Sr. CPO	PALLURUTHI	9497962320
SI	<b>THOPPUMPADY</b>	9497980423
SI	THOPPUMPADY	9497981237
ASI	THOPPUMPADY	9497962033
Sr.CPO	THOPPUMPADY	9497975408
S I	<b>CENTRAL P S</b>	9497980427
S I	CENTRAL P S	9497980428
S I	CENTRAL P S	9497980429
S I	CENTRAL P S	9497975411
SI (Gr)	CENTRAL P S	94997975416
ASI (G)	CENTRAL P S	9497961919
CPO	CENTRAL P S	9497932866
SI	<b>KADAVANTHRA PS</b>	9497980407
ASI	KADAVANTHRA PS	9497961970
Sr.CPO	KADAVANTHRA PS	9497933414
SI OF POLICE	<b>MULAVUKAD P S</b>	9497980417
GSI	MULAVUKAD P S	9497961955

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

G ASI	MULAVUKAD P S	9497962163
WSI	<b>VANITHA P.S</b>	9497980444
WSI	VANITHA P.S	9497980443
SI	<b>TRAFFIC WEST</b>	9497975435
SI	TRAFFIC WEST	9497980451
ASI	TRAFFIC WEST	9497980453
SI	TRAFFIC EAST	9497975381
SI	<b>CHERANALLOOR</b>	9497980400
ASI	CHERANALLOOR	9497975384
SI	<b>ET NORTH PS</b>	9497980402
SI	ET NORTH PS	9497980403
SI	ET NORTH PS	9497975388
ASI	ET NORTH PS	9497961938
SI	<b>CONTROL ROOM</b>	9497980435
Gr. SI	CONTROL ROOM	9497975422
Gr. SI	CONTROL ROOM	9497975425
Sr. CPO	CONTROL ROOM	9497962111
Gr. ASI	CONTROL ROOM	9497962112
ACP	<b>SPECIAL BRANCH</b>	9497990062
SI	SPECIAL BRANCH	9497980440
SI	SPECIAL BRANCH	9497932812
ASI	SPECIAL BRANCH	9497975431
SI	<b>KANNAMALY</b>	9497980416
ASI	KANNAMALY	9497975401
GASI	KANNAMALY	9497962002
SI	<b>ELOOR P.S</b>	9497980401
SI (G)	ELOOR P.S	9497961967
ASI (G)	ELOOR P.S	9497961934
SI	<b>PALARIVATTOM PS</b>	9497980425
SI	PALARIVATTOM PS	9497980426
Gr. ASI	PALARIVATTOM PS	9497962055
SI	<b>DCRB, KOCHI CITY</b>	9497980436

### ANNEXURE 5 (D)

#### ERNAKULAM RURAL

Designation	Area	Contact No.
DYSP	Aluva	9497990077
DYSP	Admin	9497990072
DYSP	Special Branch	949799 0073
DYSP	Dcrb Aluva	9497990074
Dysp	Crime Detachment	9797990075

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

Dy SP	Narcotic Cell	9497990076
DYSP	Perumbavoor	9497990078
DYSP	Muvattupuzha	9497990079
AC I	Ar Kalamassery	9497990269
AC II	Ar Kalamassery	9497990270
RI I	Ar Kalamassery	9497987357
RI II	Ar Kalamassery	9497987358
SI	<b>Dcrb Aluva</b>	9497980520
SI	Dcrb Aluva	9497980521
GASI	Dcrb Aluva	9497962521
Gr. ASI	Crime Detachment	9497962485
Gr. ASI	Crime Detachment	9497962486
Gr. ASI	Crime Detachment	9497962484
	Narcotic Cell	9497962487
CI	<b>Aluva</b>	9497987114
SI	C/Room,. Aluva	9497980518
GASI	C/Room,. Aluva	9497962482
GASI	C/Room,. Aluva	9497962483
CI	<b>Women Cell, Aluva</b>	9497987129
CI	Women Cell, Aluva	9497980513
SI	Women Cell, Aluva	9497980514
WHC	Women Cell, Aluva	9497962461
SI	Aluva	9497980506
ASI	Aluva	9497975484
SI Traffic Unit,	Aluva	949798512
SI	<b>Binanipuram</b>	9497980465
ASI	Binanipuram	9497975442
SI	<b>Chengamanadu</b>	9497980466
ASI	Chengamanadu	9497975443
CI	<b>Angamaly</b>	9497987120
SI	Angamaly	9497980462
SI	Angamaly	9497980463
CI	<b>N Paravur P S</b>	9497987116
SI	N Paravur P S	9497980484
WSI	N Paravur P S	9497980485
CI	<b>Vadakkekara</b>	9497987117
SI	Vadakkekara	9497980497
ASI(G)	Vadakkekara	9497962382
SI	<b>Varapuzha</b>	9497980498
ASI	Varapuzha	9497975474
ASI	Varapuzha	9497975475
SI	<b>Puthenvelikkara</b>	9497980494



## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

ASI	Puthenvelikkara	9497975471
CI	<b>Njarakkal</b>	9794987119
SI	Njarakkal	9497980482
SI	Njarakkal	9497980483
CI	Njarakkal Circle	9497987119
SI	<b>Munambam</b>	9497980481
ASI	Munambam	9497975458
HC	Munambam	9497975459
CI	<b>Nedumbasery</b>	9497987128
SI	Nedumbasery	9497980500
SI	Nedumbasery	9497980501
SI	Nedumbasery	9497980502
ASI	Nedumbasery	9497962402
CI	<b>Perumbavoor</b>	9497987127
CSI	Perumbavoor	9497980487
SI	Perumbavoor	9497980488
ASI	Perumbavoor	9497933241
SI	Perumbvr Traffic	9497980515
ASI (Gr)	Perumbvr Traffic	9497962462
CI	<b>Kalady Circle</b>	9497987115
SI	Kalady	9497980468
ASI	Kalady	9497975445
SI	Kodanadu	9497980471
ASI	Kodanadu	9497975448
CI	Kunnathunadu	9497987118
S.I	Kunnathunadu	9497980476
ASI	Kunnathunadu	9497962283
SI	Ayyampuzha P.S.	9497980464
ASI	Ayyampuzha P.S.	9497975441
CI	Kurupam Pady	9497987121
SI	Kurupam Pady	9497980477
ASI	Kurupam Pady	9497962290
SI	Kottappady P S	9497980475
ASI	Kottappady P S	9497975453
S I	Thadiyittaprmбу	9497980496
ASI	Thadiyittaprmбу	9497975473
GASI	Thadiyittaprmбу	9497962375
CI	Muvattupuzha	9497987122
SI	Muvattupuzha	9497980503
ASI	Muvattupuzha	9497975480
SI	Muvupuzha Trffic	9497962481
GASI	Muvupuzha Trffic	9497962479

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

SI	Kuttampuzha	9497980479
GASI	Kuttampuzha	9497962297
GASI	Kuttampuzha	9497962298
SI	Oonnukal	9497980486
GASI	Oonnukal	9497975462
SI	Pothanikad	9497980491
ASI	Pothanikad	9497975467
ASI	Pothanikad	9497975468
CI	Kothamnglam	9497987125
SI	Kothamnglam	9497980473
ASI	Kothamnglam	9497975451
S I	Ramamangalam P S	9497980495
ASI	Ramamangalam P S	9497975472
SI	Vazhakulam P S	9497980499
ASI	Vazhakulam P S	9497975476
CI	Kalloorkad P.S	9497987124
SI	Kalloorkad P.S	9497980470
SI	Koothattukulam P S	9497980472
ASI	Koothattukulam P S	9497975450
CI	Piravom	9497987126
S I	Piravom	9497980490
ASI	Piravom	9497975466
CI	Puthencruz P S	9497987123
SI	Puthencruz P S	9497980492
SI	Mulanthuruthy P S	9497980480
ASI	Mulanthuruthy P S	9497975456

### ANNEXURE 5(E)

#### VEHICLE STRENGTH OF KOCHI CITY POLICE

Jeep	65
Bus	11
Car	4
Qualis	3
Lorry	3
M/C	41
Ambulance	1
Motor Van	1
Recovery van	1
Tata sumo	2
Boat	2

**ANNEXURE 6(A)**

**MAJOR GOVT.HOSPITALS**

1	General Hospital Ernakulam	2361251	2369567	9446505990
2	THQH North Paravur	2444438		9446048039
3	DH Aluva	2624040		9072794585
4	THQH Perumbavoor	2523138		9746244059
5	THQH Muvattupuzha	0485-2832360		9633706560
6	THQH Kothamangalam	0485-2822603		9946087517
7	THQH Thripunithura	2523138		
8	THQH Fort Kochi	2216444		
9	Govt. Maharajas Hospital Karuelippady	2224511		

**ANNEXURE 6(B)**

**OTHER GOVT. HOSPITALS (PHC, CHC, ETC)**

Sl.No	Institution	Phone	Ambulance
1	Ankamaly	2455950	Available
2	Chengamanad	2475344	
3	Cheranallor	2431605	
4	Ezhikkara	2508258	
5	Kalady	2460163, 2466797	
6	Keechery	2746064	
7	Kumbalanghy	2240472	
8	Malayidamthuruthu	2680499	
9	Malippuram	2492656	
10	Nettoor	2700010	
11	Pallarimanagalam	0485- 2564747	
12	Pambakkuda	0485- 2272300	
13	Pandappally	0485 - 2255451	
14	Pizhala	2430894	
15	Ramamanagalam	0485- 2277922	
16	Vadavucode	2730251	
17	Varappetty	0485 - 2284217	
18	Varappuzha	2512520	
19	Vengoor	2645150	
20	Piravom	0485 - 2243923	
21	Vengola	2590001	Available
22	Ayyampilly	2488396	
23	Fisheries Hospital	2263430	

24	Kadayirippu	2761537	
25	Karuvelippady	2224561	
26	Koonammavu	2513587	
27	Koothattukulam	0485 - 2253089	
28	Moothakunnam	2483055	
29	Mulanthruthy	2740239	
30	Munambam	2488830	Available
31	Njarakkal	2494154	
32	Palluruthy	2235780	
33	Puthenvelikkara	2487259	
34	Edappally	2343909	
35	Poothotta	2793019	
36	RVPD Trippunithura	2784845	

**ANNEXURE 6(C)**

**BED STRENGTH & BED DISTRIBUTION**

**I Sanctioned Bed-strength:**

SI. No.	Total	4612
1	Male	1205
2	Female	1462
3	Children	329
4	Others	1616

**II.Specialty- wise classification of Beds**

1	Medical	707
2	Surgical	324
3	Obstetric & Gynecology	329
4	Paediatric	239
5	Orthopaedics	144
6	Ophthalmology (Eye)	94
7	ENT	25
8	Psychiatry	14
9	Dermatology (Skin)	6
10	PMR	2
11	Chest Diseases	84
12	Cancer	91
13	T B	70
14	Dental	18
15	Family Planning	95
16	Geriatrics	10

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

17	Isolation	55
18	Observation	4
19	Casualty	45
20	Pay wards	158
21	Outpatients (General & burns)	2098
<b>Total</b>		<b>4612</b>

### ANNEXURE 6(D)

#### PRIVATE HOSPITALS

Sl.No	Hospital	Phone	Nodel Officer	Mob No.	Ambulance
1	PVS Hospital, Kaloore	2345451	Dr. Ummen	9847197334	Available
2	Lourdes Hospital	2391452			Available
3	Medical Trust Hospital	2358001			Available
4	Specialist Hospital	2344920			Available
5	Lakeshore Hospital	2701022	Dr. Anna George	9446006637	Available
6	LF Ankamaly	2452546	Dr. Joel	9947180399	Available
7	Lakshmi Hospital Ernakulam	2382111	Dr.Sreenivasa Kammath	9846054167	Available
8	Sunrise Hospital	2428913			Available
9	Cochin Port Trust	2666403	Dr. Muhammed Koya	9447327569	Available
10	Sanjeevani Navy		Dr.Madhu	9446489901	Available
11	CA Hospital Desam Aluva		Dr. Sherifa	9447193677	Available
12	Goutham Hospital	2210510			Available
13	Kims	304100	Dr.Pradeep Raveendran		Available

### ANNEXURE 6(E)

#### BLOOD BANK

Sl. No.	Name	Phone	Nodel Officer	Mob No
1	Blood bank Aluva	04842625101	Dr. Vijayakumar	9847275956
2	IMA Blood Bank Ernakulam	04842361549	Dr. Sankary R Shenoy	
3	GH Ernakulam	04842361251	Dr. Anie	

### ANNEXURE 7(A)

#### FIRE & RESCUE STATIONS

FIRE & RESCUE				
1	Divisional Officer, Gandhi Nagar	2206131	2206131	9744017006
2	Asst. Divisional Officer, Kochi	2205550	9497920115	

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

FIRE & RESCUE STATIONS				
1	Aluva	2624101		9495526727
2	Anagamali	2452101		9895537877
3	Club Road, Ernakulam	2355101		9388156908
4	Eloor	2545500		9497920149
5	Gandhinagar, Ernakulam	2205550		9447383991
6	Kalloorkkad	0485-2287111		9895425977
7	Kothamangalam	0485-2822420		9497920137
8	Mattancherry	2225555		9495872557 9497920137 9495426865
9	Muvattupuzha	2832727		9495426865
10	North Paravur	2443101		9446320717
11	Perumbavur	2523123		9497920135 9895537877
12	Piravom	0485-2242373		9947807276
13	Thrikkakara	2423100		9744440074
14	Thripunithara	2775388		9497920144 9995320832
15	Kuthattukulam	0485-2275103		9447386202

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

### ANNEXURE 7(B)

#### DETAILS OF RESCUE EQUIPMENTS AVAILABLE AT FIRE & RESCUE DEPARTMENT

Sl. No.	Name of Equipment	GANDHINAGAR	KALOORKKAD	KOTHAMANGALAM	ALUVA	ANGAMALI	CLUB ROAD	ELOOR	MATTANCHERY	MUVATTUPUZHA	N.PARA VUR	PERUMBAVOOR	PIRAVOM	THRIKKAKARA	THRIPUNITHURA	KOOTHATTUKULAM	TOTAL
1	CHAIN SAW	2	2	2	2	1	1	1	1	1	2	2	1	1	0	1	20
2	CONCRETE CUTTER	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
3	RUBBER DINGHY WITH OB ENGINE	1	0	0	0	2	0	1	0	1	1	0	0	0	0	0	6
4	DINGHY WITHOUT OB ENGINE	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	4
5	SCUBA SET	0	0	0	1	0	1	0	0	1	1	0	1	0	0	0	5
6	DIVING SUIT	0	0	2	2	0	0	0	0	3	1	0	0	0	0	0	8
7	BA SET	1	2	2	2	1	0	1	2	0	1	2	1	1	2	1	19
8	HYDRAULIC RESCUE TOOL SET	1	0	1	1	1	1	0	0	1	1	1	0	1	0	1	10
9	ROPE	10	1	1	2	8	5	2	3	1	5	0	5	5	1	3	52
10	STRETCHER-FOLDING	2	2	2	3	2	1	1	2	2	2	2	2	2	1	2	28

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

11	STRETCHER-FLOATING	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0	<b>4</b>
12	LIFE BUOY	7	2	2	4	8	2	2	2	2	1	3	2	3	2	0	<b>42</b>
13	LIFE JACKET	3	2	2	4	6	0	0	2	1	1	3	2	2	2	0	<b>30</b>
14	RECOVERY VAN	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>
15	PORTABLE PUMP	1	1	1	1	1	1	1	0	2	2	1	1	1	1	0	<b>15</b>
16	FLOAT PUMP	2	2	1	1	1	1	1	1	2	1	1	1	1	1	1	<b>18</b>
17	TRAILER PUMP	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	<b>1</b>
18	ASKA LAMP	1	0	1	1	1	1	0	1	1	1	1	1	0	1	1	<b>12</b>
19	TORCHES	4	1	1	1	2	0	3	0	1	0	1	1	1	2	0	<b>18</b>
20	SEARCH LIGHTS	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	<b>1</b>
21	SPADE	2	0	0	2	2	1	0	0	0	1	1	1	1	0	0	<b>11</b>
22	SHOWELL	2	0	0	1	2	1	1	1	0	1	1	1	1	0	0	<b>12</b>
23	MATTOCK	2	0	0	0	2	1	0	0	0	1	1	1	1	0	0	<b>9</b>
24	PICK AXE	2	0	0	1	1	1	0	1	0	1	1	1	1	0	0	<b>10</b>
25	EJECTOR PUMP	2	0	1	2	2	0	0	0	0	1	1	1	0	0	0	<b>10</b>
26	CEILING HOOK/FIRE HOOK	2	0	0	2	2	1	0	2	0	1	1	1	1	1	0	<b>14</b>
27	BILL HOOK	1	0	0	1	1	1	0	1	0	1	1	1	1	0	0	<b>9</b>
28	CROW BAR	4	0	1	0	2	2	0	2	0	1	2	1	1	0	0	<b>16</b>



**ANNEXURE 8(A)**

**BSNL OFFICES IN ERNAKULAM DISTRICT**

Sl. No	Name	Address	Telephone	FAX
1.	BSNL Bhavan	BSNL Bhavan, Kalathiparambil Road, 682016	4842375775	4842377991
2.	Boat Jetty, ENK	Telephone Exchange Building, Boat Jetty, Ernakulam, Kochi-11	4842369200	4842383723
3.	Alwaye	Telephone Exchange Bldg, Aluva, Kochi-683101	4842623400	4842624033
4.	Panampillynagar	Telephone Exchange Building, Panampilly Nagar Telephone Exchange, Panampillynagar, Kochi-36	4842316050	4842324500
5.	CTO Ernakulam	CTO Bldg, Karakkat Road, Kochi-682011.	4842369000	4842381613
6.	Mattanchery	Telephone Exchange Bldg, Mattancherry, Koci-2	4842225500	4842221300
7.	Kothamangalam	Customer Service Centre, BSNL, Near Private bus Stand, Kothamangalam PO, 686691	4852823328	4852822937
8.	Angamally	CSC Angamally, Opposite to KSRTC Bus stand, 683572	4842459600	4842459100
9.	Parur	Telephone Exchange Bldg, Parur	4842441100	4842443000
10.	Muvattupuzha	Vallakalil Jn, Cto Bldg, Bsnl Muvattupuzha, 686661	4852833200	4852833500
11.	Perumbavoor	Csc Prumbavoor, Near Police Station, Perumbavoor	4842594000	4842528900
12.	Nedumbassery	CSC Nedumbasserry, Airport P O, 683111	4842610166	4842610105
13.	Cusat	CUSAT , University Compound	4842422200	4842577057
14.	Trikkakara	CSC, Telephone Exchange Bldg Trikkakara, 682030	4842426400	4842423300
15.	Kalady	CSC, Telephone Exchange Bldg, Kalady, 683574	4842462977	4842463180

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16.	Piravom	CSC, Telephone Exchange Bldg, Piravom, 686664	4852242100	4842243100
17.	Palluruthy	CSC, Telephone Exchange Bldg, Palluruthy	4842232026	4542231260
18.	Willingdon Island	CSC BSNL Near Post Office, Willingdon island Cochin 682003	4842668340	4842666565
19.	Kalamassery	CSC, Telephone Exchange Bldg, Kalamassery.	4842532910	4842532179
20.	Kolenchery	CSC BSNL, Telephone Exchange Bldg, Kolencherry 682311	4842760453	4842760484
21.	Koothattukulam	CSC BSNL, Telephone Exchange Compound, Koothattukulam, 686662	4852252987	4852252067
22.	Narakkal	Telephone Exchange Bldg, Njarakkal	4842498400	4842493166
23.	Thevara	CSC, Telephone Exchange Bldg, Thevara.	4842665590	4842665200
24.	Palarivattom	CSC BSNL Palarivattom, Telephone Exchange Bldg, 682025	4842345383	4842346200
25.	Adimaly	CSC BSNL Adimaly, Near old panchayat office, 685561	4864225900	4864225522
26.	Tripunithura	CSC, Telephone Exchange Building, Tripunithura, 682301	4842776718	4842780280
27.	Mulanthuruthy	CSC Mulanthuruthy, Telephone Exchange Building, Mulanthuruthy - 682314	9447174500	4842740500
28.	Varappuzha	CSC Varappuzha, Telephone Exchange Building, Varappuzha - 683517	9446050210	4842513500
29.	Kizhakkambalam	Kizhakkambalam telephone Exchange	4842682000	0484268000
30.	Vyttila	CSC, O/O SDE (Extl) Vyttila	4842301077	4842304163
31.	Chittoor Ekm	Telephone Exchange Near Krishna Temple, Chittoor, Ernakulam	2434444	4842430430

**ANNEXURE 8(B)**

**MEDIA LIST**

SI No.	Name & Address	Phone	E-mail
1	Business Standard, Koikkal Chambers, C.P.Ummer Road, Kochi-35	4022212, 9846443966	georgejoseph61@yahoo.com
2	Chandrika, Crescent Lane, S.R.M. Rd, Ernakulam	2403930	kochi@chandrika.net chandrikakochi@gmail.com
3	Deccan Chronicle, DD Trade Tower, Kaloor, Kochi-17	0484 -4214307	kerala@deccanmail.com
4	Deepika, Rashtra Deepika Ltd, Opp Ekm N.Railway Station, Kochi-18	0484-3042222	newsekm@deepika.com
5	Deshabhimani, Kaloor, Kochi-17	0484-2531778, 2531888	news@deshabhimani.com
6	Janayugom, Azad Rd., Kochi-17	2364737, 418522	news.bureau@janayugom.com
7	Janmabhumi, Perandur Rd, Elamakkara, Kochi-26	3219926	desk@janmmabhumidaily.com
8	Kala Kaumudi, 7th Cross Rd. P.Nagar, Kochi	4023143	bignewsekm@gmail.com
9	Kerala Kaumudi, Chandrika Bldg, M.G.Rd, Kochi-11	0484-3075000	kochidesk@gmail.com tksunilkmr@gmail.com
10	Kerala Kaumudi Flash, Chandrika Bldg, M.G.Rd, Kochi-11	3075000	kochidesk@gmail.com harishlike@gmail.com
11	KeralaSabdham, Choolackal Bldg, PressClub Rd, Ernakulam	9447215856	amrajayan@gmail.com
12	Madhyamam, Pulleppady, Kochi-18/ Convent Jn, Kochi-35	2361740	mdmchn@gmail.com
13	Malayala Manorama, P.B.No.4278, Panampilly Nagar, Kochi-36	4447888	editorial_kochi@mm.co.in
14	Malayalam News, Amulya Street , Banerji Rd, Kochi-18	9846224450	sajeevkokkat@gmail.com
15	Mangalam Daily, Manjaly Twrs, Ammancoil Rd, Kochi-35	0484 2371821, 2352250, 2372029	mangalamdaily@hotmail.com
16	Mathrubhumi, Kaloor, Kochi	0484-2530774, 2531708	mbichnnews@gmail.com
17	Metro Vartha, 4th Floor Shenoy Chambers, Shanmugham Rd, Kochi-31	0484-3060888	ekmbureau@metrovaartha.com
18	New Age, 32/823 A, May College St. Vincent DePaul Convent Rd, Palarivattom, Kochi-25	0484 4064303	teamnewage@gmail.com
19	Powran, Tass Rd. Aluva	2625670	powrandaily@yahoo.com
20	Pradeepam, Market road, Aluva	2623615	kpradeepam@gmail.com
21	PIB, Kendriya Bhavan, Csez.P.O	2428818, 9447736131	pibcochin@gmail.com
22	PTI, Narayaninilayam, A.M.Thomas Road, Kochi -16	2378520	ptikochi@gmail.com

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23	Sayahna Kairali, S.R.M. Rd, Kaloor, Kochi-18	2405399	sayannakairali@yahoo.co.in
24	Siraj, Amulya Street, Banerji Rd, Kochi-18	0484-3047104 3918431	sirajnewsekm@gmail.com
25	The Economic Times, Imperial Trade Centre, M.G Rd. Kochi-35	6600938, 6600942	krishnakumar.pk@timesgroup.com sanandakumar.s@timesgroup.com sanandakumar.s@gmail.com
26	The Financial Express, Sankurikkal Bldgs, Kaloor- Kadavanthra Rd, Kochi 17	2343269, 2343253	rajesh.ravi@expressindia.com
27	The Hindu, NH Bypass Rd, Vyttila Jn, Kochi-19	2301653, 2307836, 2307555 , 2307444	kochiws@thehindu.co.in
28	The Hindu Business Line, NH Bypass Rd, Vyttila Jn., Kochi-19	2305444	sajeevkumar@thehindu.co.in
29	The Hindustan Times, P-Nagar, Kochi	6464112, 2319520	rbabu@hindustantimes.com baburameshin@gmail.com
30	The New Indian Express, Kaloor, Kochi-17	2402220, 2401625	byjuaryad@gmail.com
31	The Pioneer, K K Bldg., P-Nagar, Kochi	9633597248	jayarajvr@gmail.com
32	The Times of India, Imperial Trade Centre, M.G Rd. Kochi-31	6600800	timesreporters@gmail.com
33	Thejas, JINI Stadium,E-Sector,2nd Floor, Kaloor	3914700	abdulmkarr@gmail.com shabnaziyad@gmail.com
34	UNI, Vasudeva Bldgs, T.D.Road, Kochi-11	2354366	unikochi@gmail.com
35	Varthamanam, C P Bldgs, Kalabhavan Rd, Kochi-18	2381530	varthaekm@gmail.com
36	Veekshanam, Veekshanam Rd, Kochi-18	91-484-2361522, 2355556, 355533, 2355500	veekshanam.kpcc@gmail.com
37	Vijay Karnataka, 20AB0, Star Home Annexe, Karingachira, Thripunithura	2381530, 9847302621	vplkerala@gmail.com
38	All India Radio (News), 19/1303,SDPY Road, Kochi-682 006	2577716,	airnewscochin@gmail.com
39	All India Radio (FM), Thrikkakara, Kochi-21	2422543	airnewscochin@gmail.com
40	ACV, Pallinada, Palarivattom, Kochi-25	3239291	acvnewskochi@gmail.com
41	Amrita TV, Azad Rd. Ashramam Lane, Kochi-17	2320080	deepakdharmadam@amritatv.com
42	Asian News International, Fathima Church Line, Elamkulam,Kochi-20	9847237678	anikochi@gmail.com
43	Asianet News, NH Byepass Jn. Palarivattom, Kochi-25	3091111	newsdesk@asianetnews.in
44	Doordarshan News	9447731090	salimddnews@gmail.com
45	Indiavision, Tutus Twrs, Padivattom, N.H. Bypass, Kochi-24	2338350, 2535830	ekm@indiavisiontv.com
46	Jaihind TV, House No : 4 Kattakayam House,Power House Rd, Palarivattam, Kochi-25	3087104	kochijaihindtv@gmail.com

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47	Jeevan T V, Palarivattom, Kochi-25	0484 2338115, 2338116, 3060600	sherinjoy555@gmail.com deepaksjeevan@gmail.com
48	Kairali TV, Kairali Studio Complex, NH Bypass, Vennala P.O., Kochi	0484-2807435	kochi@kairaliti.in satheeshkairali@gmail.com
49	Manorama news, P.B.No.4278, Panampilly Nagar, Kochi-36	0484-4447270	sudeepsamvarghese@mmtv.in
50	Mathrubhumi News, 7th Floor,Puthooran Plaza, Kpcc Junction,MG Road, Kochi- 682011	0484-6066610	leby.sajeendran@gmail.com
51	Mediaone, Madhyamam Broadcasting Ltd, Opp Oberon Mall, NH Bye Pass, Edappilly, Kochi-682024	0484 2534542	sanoop@mediaonetb.in sanoob@mediaonetb.in
52	Reporter TV, Reporter Studio Complex, HMT Colony P.O.	2541050, 2861739	televijayan@gmail.com
53	Surya TV, Civil Lane Rd., Vazhakkala,Thrikkakara P.O, Kochi-21	9895713780	pramodbabu@rediffmail.com
54	EC TV,Thekkumthala Building, Azad Road, Kaloore, Kochi-17	9388870228	akbar.akbar89@gmail.com
55	The Big News	9847530352	sremanayil@gmail.com prakashelamakkara@gmail.com

### ANNEXURE 8(C)

#### FM STATIONS

1	All India Radio(Kochi)	0484-2422531
2	Radio Mango	0484-2320902/3/4
3	Club FM	2407944
4	RED FM	0484-6603930

### ANNEXURE 8(D)

#### HAM RADIO OPERATORS

Sl.No.	Call sign	Name	Place	Tel. No.
1	VU2ACC	Charles	Moothakunnam	
2	VU2ADV	Jacob	Kakkanad	
3	VU3BWB	Jayachandran	Thiruvankulam	8547855182
4	VU3BLN	Balan	Vaduthala	9446471013
5	VU2BBA	Babu	Piravom	
6	VU3BTN	Prakasan	Palluruthy	9447368207
7	VU2CID	Bhramadev	Kakkanad	9445737838
8	VU2DCC	Mohankrishnan	Aluva	8129807724

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9	VU2DPV	Verma	Kothamangalam	9446419323
10	VU3EBJ	Jomon	Piravom	
11	VU2GMK	Gopinath	Aluva	0484 2605089
12	VU2GOJ	Geo John	Aluva	
13	VU2GPL	Gopalakrishnan	Kochi	
14	VU2GKJ	George	Kaloor	9947570968
15	VU3IGJ	Sageer	Aluva	9947100011
16	VU2JUS	Justin	Kaloor	
17	VU2KGB	Girish Babu	Kakkanad	9895007388
18	VU2KMO	Sasikumar	Moovatupuzha	9447664243
19	VU2KVO	Viswas	Vypin	9446050575
20	VU2MSA	Sajeev	Ravipuram	9847151868
21	VU3MME	Sam	Aluva	
22	VU2NSL	Subramanian	Ravipuram	9447434822
23	VU2NNN	Naseer Sait	Chitoor Road	889178250
24	VU2PEY	Balan Pr	Pizhala	9995312122
25	VU2PIL	Pramod	Kothad	9846920350
26	VU2PJR	George	Muvattupuzha	
27	VU2RDN	Ravindran	Kakkanad	9349256569
28	VU3RTE	Rajan	Athani	
29	VU3SCC	Sivaraman	Aluva	9400504250
30	VU3TFE	Ramabhadrabn	Muvattupuzha	9562388051
31	VU3VUL	Shaji Kumar	Aluva	9846024472
32	VU2VAS	Vamana Shenoy	Td Road	9288706104
33	VU2XPZ	Resel Pp	Moothakunnam	
34	VU2YES	Praveen Kumar	Kakkanand	808644816

### ANNEXURE 9

#### WELL DETAILS

Sl.No.	Well No.	Location
1	BW-100	Rayamangalam
2	BW-101	Assamanoor, (Odakkali)
3	BW-102	Mookkannoor
4	BW-103	Chelamattom, (Okkal)
5	BW-104	Kodanad
6	BW-105	Vengoor,(Kombanad)
7	BW-106	Kadavoor
8	BW-107	Palakuzha
9	BW-108	Piravom
10	BW-109	Onakkur (Pampakuda)

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11	BW-110	Neriyamangalam
12	BW-111	Edakattuvayal
13	BW-112	Valloorkunnam, (Vazhappilly)
14	BW-113	Muvattupuzha, (Thrikkalathur)
15	BW-114	Vadavukodu, (Ambalamugal)
16	BW-115	Kadangallur, (Edayar)
17	BW-116	Kakkanad
18	BW-117	Nedumbassery
19	BW-118	Kothamangalam
20	BW-119	Pindimana, (Bhoothathankettu)
21	BW-120	Elanji, (Mutholapuram)
22	BW-121	Keerampara, (Palamattom)
23	BW-122	Kunnukara
24	BW-123	Pattimattom, (Kunnamkodu)
25	E-78	Neriyamangalam
26	E-79	Pothanikkad
27	E-80	Muvattupuzha
28	E-81	Koothattukulam
29	E-82	Ramamangalam
30	E-83	Piravom
31	E-85	Ernakulam(South)
32	E-86	Mattanchery (Cheralai)
33	E-87	Kumbalangi
34	E-88	Chellanam
35	E-89	Edappally
36	E-90	Aluva, (Thottakkattukara)
37	E-91	Parur
38	E-92	Njarakkal
39	E-93	Angamaly
40	E-94	Kalady
41	E-95	Perumbavur
42	E-97	Pindimana, (Bhoothathankettu)
43	GWE-01	Kizhakambalam, (Pookkattupady)
44	GWE-02	Rayamangalam, (Kuruppampady)
45	GWE-03	Kunnathunad South (Kolencherry)
46	GWE-05	Nedumbassery, (Kariad)
47	GWE-06	Manjapra
48	GWE-07	Edacochin
49	GWE-08	Pallipuram, (Cherai)
50	GWE-09	Amballur, (Kanjiramattom)
51	GWE-10	Thiruvankulam, (Chottanikkara)
52	GWE-11	Aluva-east, (Chalackal)
53	GWE-12	Kuttamangalam, (Kavalangad)

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54	GWE-13	Keerampara
55	GWE-14	Eramallur, (Nangeli-Elampara)
56	GWE-15	Vengola
57	GWE-16	Kunnathunad, (Pattimattom)
58	GWE-17	Kunnathunad, (Pallikkara)
59	GWE-19	Thirumaradi, (Mannanthore)
60	GWE-20	Thirumaradi (Kakkur)
61	GWE-21	Elanji
62	GWE-22	Eranellur, (Kalambore)
63	GWE-23	Thrikkakkara, (Kakkanad)
64	TW-1	Cochin, (Revenue tower)

### ANNEXURE 10

#### STORAGE GODOWNS & PUBLIC DISTRIBUTION SYSTEM

Number of Storage Godowns (Total) -	35
Place -	Ernakulam District
Number of Storage Godowns (Govt) -	1
Number of Wholesale Dealers -	35
Number of retail outlets Total -	1342

Retail Outlets			
Taluk	ARDs	In Charge	Tel. No
CRO Ernakulam	92	City Rationing Inspector	2390809
CRO Kochi	114	City Rationing Inspector	2222002
TSO Kanayannur	167	Taluk Supply Officer	2777598
TSO Kochi	87	Taluk Supply Officer	2224191
TSO Aluva	202	Taluk Supply Officer	2623416
TSO North Paravur	162	Taluk Supply Officer	2442318
TSO Kunnathunad	234	Taluk Supply Officer	2523144
TSO Kothamangalam	122	Taluk Supply Officer	0485 2822274
TSO Muvattupuzha	162	Taluk Supply Officer	04852814956

Taluk	Sl.No	Name & Address	Location	Storage Capacity in MTs	Linked to FCI
<b>CRO EKM</b>	1	Sheeba Jameson, Angalippambil Veedu, House No.48/1589, Keerthi Nagar, Thannikkal, Elamakkara.	37/1156 Elamkulam Cochin Corporation Elamkulam Village	200	Kochi
	2	N. Subrahmanian, Managing Partner Monarch Traders 4/A. The Monarch, P.T.Usha Road, Kochi – 11	48/2576 Pottakkuzhi, Cochin Corporation Edappally South Village	200	FCI Kochi



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<b>CRO KCH</b>	3	K.S.Saji, Kavalampara Veedu, 21/231, Perumbadappu, Kochi -6	Cochin Corporation, Palluruthy XVIII/235 Rameswaram Village	250	Kochi
	4	KP Praveen, Kannamparambil Veedu, 18/1813, Palluruthy, Kochi – 6	Fort Cochin 19/203 A Cochin Corporation Fort Cochin Village	180	Kochi
<b>TSO KNR</b>	5	Kerala State Civil Supplies Coporation Ltd. Sub Depot, Thrippunithura	V/178, Thrippunithura Municipality, Eeroor Nadama Village	250	Kochi
	6	Jithin Joy, Alappatt Veedu, 23/156, Changampuzha Nagar, Kalamassery	20/113 Kalamassery 20/114 Municipality 20/115 Thrikkakkara North Village	320	Angamaly
	7	Baby Varghese, Niravath Veedu, 11/444, Irumpanam P.O.	Thiruvamkulam Panchayath, Irumpanam, X/156 Thiruvamkulam Village	250	Kochi
	8	Berly Zacharia, Pezhathumuzhiyil Veedu Edakkattuvayal, Arakkunnam	Amballoor Panchayath, Amballoor Village VI/13, 19, 23	300	Kochi
<b>TSO KCH</b>	9	A.B.Pradeep, Angaliparambil Veedu, Edavanakkad.	Edavanakkadu Panchayath VI / 401 / A Edavanakkadu Edavanakkadu Village	180	Angamaly
	10	Akhil.Jeevan, Puthussery Veedu, Ayampally	Pallippuram Panchayath, Pallipuram Village Pallipuram X/844	170	KCH
	11	K.R.Anil Raj, Kandathilparambil Veedu, Kandakkadavu, Edavanakkadu P.O.	Kandakkadavu, Chellanam Panchayath 11/197 Kumbalangi Village	160	Kochi
<b>TSO ALV</b>	12	Skaria D, Parakkal and Co. EM.Antony, Edathanil Veedu, Okkal	Kalady, VII/428 Kalady Village	400	Angamaly
	13	P.B.Radhakrishnan & Co. Manakkode Bangalow, Angamaly	Angamaly, V/445 A Angamaly Village	250	Angamaly
	14	Skaria J, Mangaly & Co. C.E Muhammed, Chirakkakudy Veedu, Allapra P.O. Angamaly	Angamaly 17/415/416 Angamaly Village	250	Angamaly
	15	Jim Jose, Edassery Veedu, Kanjoor P.O., Kalady	Aluva, Keezhmadu Panchayath, VI/47 A Aluva East Village	250	Angamaly
	16	K.A Abdulla Haroon & Co. T.K Thampy, Thanikkamattom, Kolencherry	Desham, Parambayam, IX/103, Chengamanad Panchayath Chengamanadu Village	250	Angamaly

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<b>TSO N.PRR</b>	17	Kerala Industrial Co.Ltd., Thattukadavu, N. Paravur	Paravur Municipality Thattukadavu, IV/365 North Paravoor Village	200	Angamaly
	18	P.S.Ismail, Kannanchakkassery Veedu Mundakappadathu, N.Paravur	Paravur Market, Paravur Municipality, V/208 North Paravoor Village	160	Angamaly
	19	Kuttyali Mammu Hajee & Co. Thattukadavu, N.Paravur	Paravur Municipality Thattukadavu, IV/334 North Paravoor Village	200	Angamaly
	20	A.B.Jameson, Vazhikkulangara, N.Paravur	Vazhikkulangara, 12/702 A, Kottuvalli Panchayath Kottuvally Village	250	Angamaly
<b>TSO KND</b>	21	Farmers S.C.B, No.651, Vadavukodu	Puthenkurishu- Vatavukodu Panchayath, 7/91,92 Puthencruz Village	200	Angamaly
	22	Jins Joy, Alappattu Veedu, Airapuram P.O. Perumbavur	Mudakkuzha Panchayath 2/296 a, 296 B, 297 E Vengoor West Village	100	Angamaly
	23	C.M.Ameer Ali, Aysha Manzil, Perumbavur	Perumbavur Municipality 16/256 Perumbavoor Village	180	Angamaly
	24	T.K.Chacko & Co. Kolenchery	Kolencherry, 2/57 Aikkaranadu Panchayath Aikkaranadu Village	250	Angamaly
	25	Baby Varghese & Co. Perumbavur	Perumbavur Municipality 11/606,608,619 Perumbavoor Village	150	Angamaly
<b>TSO KLM</b>	26	Thresyakutty Mathew, Edathala Veedu, Kothamangalam	Kothamangalam II/317,330 Kothamangalam Village Kothamangalam Municipality	120	Angamaly
	27	A.K.Paulose & CO. Joy Kuriakose, Managing Partner, Alappattu Veedu, Muvattupuzha P.O.	Kothamangalam IX/581, 583 Kothamangalam Municipality	160	Angamaly
	28	Thomman Paily, Padinjattel Veedu, Chathamattom P.O. Kothamangalam	Kothamangalam Municipality XIII/126 Kothamangalam Village	130	Angamaly
<b>TSO MVP</b>	29	R.Manojkumar, Jaya Bhavan, Vellurkunnam, Market P.O. Managing Partner, VRS Traders Muvattupuzha	Muvattupuzha Municipality IV/P1- 17,18 Velloorkunnam Village	100	Angamaly
	30	Amjajakshi amma & Co. S.Ananthavalliamma, Managing Partner, Ambuja Bhavan, Kadathy East, Market P.O. Muvattupuzha	Muvattupuzha Municipality VII/10 B Velloorkunnam Village	100	Angamaly

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	31	A.E.Alikutty, Aryankalayil Veedu, Neelima Garden, Perumattom, Puthuppady P.O. Muvattupuzha	Muvattupuzha Market, VII/ 471 Muvattupuzha Municipality Velloorkunnam Village	70	Angamaly
	32	Joy Kuriakose, Alappattu Veedu, Airapuram P.O Keezhillam	Vellurkunnam, XXII/322, XXII/320 Muvattupuzha Municipality Velloorkunnam Village	100	Angamaly
	33	Baby Varghese Punelil Veedu, Kumaranashan Road, Kaloor 17	Koothattukulam Panchayath XI/256,257,258 Koothattukulam Village	250	Angamaly
	34	K.Bharathy Amma, Jaya Bhavan, Vellurkunnam Market P.O. Muvattupuzha	Piravom Panchayath VI/456, A Piravom Village	120	Angamaly
	35	Joy Kuriakose, Alappatt Veedu, Airapuram P.O Keezhillam	Pampakkuda Panchayath V/785, 786, 790,791 Memury Village	80	Angamaly

### ANNEXURE 11

#### NGO'S IN ERNAKULAM

Sl.No	Name of the institutions	Contact person
1.	Cratpaw	The Centre for Research and Training In Poverty alleviation and women welfare(CRATPAW) Register No:472/1985 Kanjiramkunnel House,Thomasapuram, Maradu.P.O, Cochin:682304
2.	Ernakulum Social Service Society	Providence Road, Ernakulum Kochi 682 018 Telephone: 0484-2390461: 0484-2396682 E-mail :esssociety@gmail.com Website: <a href="http://www.esssociety.org">http://www.esssociety.org</a>
3.	Bethlehem Abhaya Bhavan	Mr. Jude Brother of Director.koovapady, Perumabavoor, Ernakulam Dist, Kerala, India,Pin:683544, Ph:0091-484-2641374,2642828 Email: <a href="mailto:Bethlehemabhayabhavan@yahoo.co.in">Bethlehemabhayabhavan@yahoo.co.in</a> Website: <a href="http://www.abhayacharity.com">www.abhayacharity.com</a>
4.	Abhayalayam, Home for Mentally Retarded Children and Men,	Near, Arayankavu temple, Chendamangalam.P.O <a href="http://www.abhayalayam.org">www.abhayalayam.org</a> . email: <a href="mailto:info@abhayalayam.org">info@abhayalayam.org</a>
5.	Sisters of the Destitute	Karunalayam Thrikkakkara P.O Kochi-682021
6.	Art and Cultural Movement of India	Nedumbassery P. O Kochi- 683585
7.	Deepam	Deepam Junction Palluruthy Cochin-682 006

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8.	Centre for Public Policy Research	Unnikrishnn, Marketing Manager. 39/717, Rahul Vihar Karakattu Road, Cochin - 682016 Kerala Tel : 91-484-6469177 Email : cppr@cppr.in Website : <a href="http://www.cppr.in">http://www.cppr.in</a>
9.	Centre for Public Policy Research	39/717, Rahul Vihar Karakattu Road Cochin - 682016 Kerala Tel : 91-484-6469177 Email : cppr@cppr.in Website : <a href="Http://Www.Cppr.In">Http://Www.Cppr.In</a>
10.	Deena Dayal Sevak Sangh	Saji, Administrator Officer Delta Arcade Market Ernakulam - 686674 Kerala Tel : 91-099460 25473 Email : deenadayalsevaksangh@yahoo.com
11.	Don Bosco Sneha Bhavan	Fr. Sunny director, Palluruthy Cochin - 682006 Kerala Tel: 91-484-2231393 , 484-2232856 Email : sunnyuppan@gmail.com
12.	Earth And Planetary System Science Consortium	Mariyamman Temple Chuttupadukara Cochin - 682024 Kerala, Tel : 91-484-2344481 Email : madhusoodanan@gmail.com
13.	Ernakulam Merchant's Union	Merchant's Union Buildings, Kerala Tel: 91-484-2355562, P.B. No. 1101, Ernakulam Merchants' Road Kochi - 682011
14.	Jeevankiran	Mr. Benny, 39/3008, Chaithanya Devi Colony Ernakulam - 682016 Kerala Tel : 91-094460 72787 Email : jeevankiran08@gmail.com
15.	Khadi and Village Industries Foundation of India	565, Cochin - 682036, Kerala Tel : 91-093884 72311 Email : khadiclub@yahoo.co.in
16.	Mahatma Centre for Development and Research	30, Additional Bus Stand Complex Thankalam Kotha Mangalam, Cochin - 686691 Kerala Tel : 91-485-6451892 Email : cdresearch@gmail.com Website : <a href="http://www.cdresearch.or">http://www.cdresearch.or</a>
17.	National Association for Mental and Social Health	Namash Saly's Hospital Building Kalamassery, Ernakulam Di - 683104, Kerala Tel: 91-484-2532487
18.	Open Knowledge Society	XX/23, Akkara, Angamaly - 683572 Kerala Email : contact@oksociety.org Website : <a href="http://www.oksociety.in">http://www.oksociety.in</a>
19.	P.T.M. Charitable Foundation	Maruthoorkonam Kottukal, Balaramapuram Thiruvananthapuram - 695501 Kerala Tel : 91-471-2267420
20.	Recs - Randar Educational and Charitable Society	Randarkara, Ernakulam – 686673 Kerala Tel : 91-094478 14162 Email : recsrandarkara@yahoo.com
21.	Save A Family Plan Aiswaryagram	Kanjoor, Ernakulam Dist. - 683593 Kerala Tel: 91-484-2462130 Email: safp@md3.vsnl.net.in

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22.	Self Reliance Foundation	Martin, The Principal, 44/573 First Floor NIFD Kuttiyathara Bldg Cochin - 682017 Kerala Tel: 91-184-2409777 Email: manoj.inifd@gmail.com
23.	Shilpa Society for the Mentally Handicapped	21/1252A Palluruthy, Cochin - 682006 Kerala Tel: 91-484-2231977 Email: sruthishilpam@hotmail.com help/shilpa, Website: <a href="http://www.kerala.com/need">http://www.kerala.com/need</a>
24.	Self Reliance Foundation	44/573 First Floor, NIFD Kuttiyathara Bldg Cochin - 682017, Kerala. Tel: 91-184-2409777 Email: manoj.inifd@gmail.com
25.	The Kerala Blind School Society	Thottumughom, Alwaye - 683105, Kerala Tel: 91-4854-623412
26.	Torture Prevention Center India Trust	Indira Nagar, Kadavanthara, Cochin - 682020 Kerala, Tel : 91-484-2317790 Email : malinimenon20@hotmail.com Website : <a href="http://www.torturepreventionindia.org">http://www.torturepreventionindia.org</a>
27.	Women's Initiative Network Society	WIN Centre Harijan Road Eramalloor-P.O. - 688537 Kerala. Tel: 91-478-2874352
28.	Nava Bharath Foundation	V/6 – 29 c, Pookattupadi Road, Unichira Thrikkakara P. O., Kochi. Tel: 0484 2577676 Email: info@navabharath.org, manojpaul002@gmail.com
29.	UNDP Disaster Risk Reduction Programme	Collectorate, Civil Sttion, Kalpetta Wayanad, Kerala Tel: 04936 202251
30.	Naipunnya International	Stephy staff, Major Arch Bishops Housecampus Broadway, Ernakulam, Cochi-682031 Email: mail@naipunnyaaint.com, jose@naipunnyaaint.com, annie@naipunnyaaint.com, Tel: 0484 2381948
31.	Sahrudhaya Services and Charities	Jince Joseph, Rajagiri P.O., Kalamassery Ph:9495352786,04844 111631
32.	Development Action Through Self (A)	Help Network (Darshn) MIG 474 Panampally Nagar, Cochin -682 036 Phone No. 0484-316101
33.	Aiswaryagram	Fr Augustine Director, Parappuram, kanjoor, Ernakulam, 683593 kerala, Cochin Kerala Phone Number: 0484-2462230:0484-2466324 Mobile No:9349202240 E-mail; fraugustineb@hotmail.com
34.	Central Institute on Mental Retardation	Murinjalapalam Medical College P.O Trivandrum- 695011 Kerala India Ant india, aajanam, pipeline road.NPOL PO, Thrikkakara, Cochin-682 Ernakulam, Kerala Tel: 0484-2575880 Mobile No: 09447327341 E-mail :antindia@gmail.com

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35.	Janaseva Sisubhavan,	Jose Maveli, Director, Ernakulam, Kerala Tel: 9895466339, 0484-2606079:0484-2603379 E-mai janasevasisubhavan@rediffmail.com Website Urhttp://www.janasevasisubhavan.net
36.	National Administrative Office of ARDSI	Mr. Jince, coordinator Guruvayoor Road 68050 Kunnamkulam, Kerala Telephone:04885-223801, Mobile No:09846198473 E-mail : alzheimr@md2.vsnl.netin Website: http://alzheimer.org.in
37.	Appolo Library Arts and Sports Club	North Krariyely Kombanad P O - 683546 Vengoor (Via) Perumbavoor Ernakulam (Dt), Kerala Perumbavoor Telephone : 0484-2648535 Mobile No: 9446013075 E-mail : appolokrariyely@gmail.com
38.	Azad Charitable & Educational Foundation,	Ground Floor, surya complex, keecherippady, market P.O., muvattupuzha, kerala -686673 Telephone: 09288-408044: 09288-409044 Mobile No: 9447579063 E-mail : asdattayam@yahoo.com
39.	Swami Guru Prasad Managing Trustee Bhaktashramam Trust,	North Paravur-683513, Telephone: 9349-204060 Mobile No: 9287207718 E-mail bhaktashramamtrust@yahoo.com Website http://www.bhaktashramam.org
40.	Centre for Advanced Projects and Solutions	29/955B, L.M Pilly Road Vyttila, Kochi-682019 Telephone:0484-2303868 Mobile No: 9846049952 E-mail : caps_idu@yahoo.co.in
41.	Centre for Business Research and Counselling	40-1719A, Santhosh Nagar, Naroath Road, Thammanam P O, PIN 682032 Tel: 91484-348812 Mobile No: 0944701048 E-mail : jmcherukara@gmail.com Website Url: http://www.cbrcindia.com
42.	Child, Behaind Clock Tower	Tripunithura, Kochi, Kerala 682301 0484-2782582: 0484-2302980 Mobile No: 09895052980 E-mail : gs@childforchildren.org Website Url: http://childforchildren.org
43.	Centre for Public Policy Research	Door no.28/3656, 1st floor, Sonoro Church Road, Elamkulam Kochi, Kerala, India- 6820 00484- 6469177, Mobile No: 09249503895 E-mail : dhanu@cppr.in Website Url; http://www.cppr.
44.	Centre For Socio Economic & Environmental Studies (CSES),	Khadi Federation Building, NH Bypass, Padivattom, Kochi-682024, Kerala, India 0484-2805107:0484-2805108 Mobile No: 9447045306 E-mail : csesindia@gmail.com Website Url :http://csesindia.org

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45.	Changampuzha Samskarika Kendram,	Changampuzha Park, Edappally.P.O. 682 024 Kochi-24,Kerala Telephone : 0484-2347591: 2535717, Mobile No: 9447985804 E-mail: ramdas333@hotmail.com Website Url : <a href="http://www.changampuzhapark.com">http://www.changampuzhapark.com</a>
46.	Charitable Society for the Welfare of the - Disabled Sneha Bhavan	Piravom 686664 Kerala, Telephone: 0485-2243027 Mobile No : 09446227169 E-mail : sneha.bhavan@rediffmail.com Website Url <a href="http://www.snehabhavan.org">http://www.snehabhavan.org</a>
47.	Chetana Sangeet Natya Academy	Mylipadam, C.R.Iyyunni Road,Thrissur-680020 kerala Telephone:04872-336667 Mobile No : 9447736667 E-mail : chetanasnatcr@gmail.com
48.	Cira Centre for Information Research and Action	Eloor North, Udhyogamandal P.O, Ernakulam, Kerala, pin: 683501. Telephone: 04846-413070 Mobile no: 9809436998 E-mail : cira.kerala@gmail.com website url: <a href="http://cirakerala.blogspot.com">http://cirakerala.blogspot.com</a>
49.	Cochin Social Service Society	Jubilee Memorial Complex, Fortkochi, Veli.P.O, Cochin- 682001 Telephone: 0484-2227217: 0484-2229509, Mobile No :09447308759 E-mail :chirammelj@yahoo.com Fax : 0484-2221342
50.	Cyriac Elias Voluntary Association CEVA	Bhavan Monastery Road, Karikkamuri Cochin 682011, Telephone: 0484-4070226: 0484-4070227 E-mail :cevakoci@airtelmail.in Website Url: <a href="http://www.cevaindia.org">http://www.cevaindia.org</a>
51.	Dharmagiri Vikas Society	Kothamangalam P.O., Thankalam Pin 686691 Telephone:0485-2822562: 0485-2823721 E-mail :dhvks@rediffmail.com Website Url: <a href="http://dvs.co.in">http://dvs.co.in</a>
52.	Ford Federation of Organizations for Research and Development	Rural Extension Centre, Kidangoor. P.O. Angamaly PIN 683572 Kerala Telephone: 04842-453399, Mobile No: 09447353955 E-mail : fordkerala@yahoo.in Website: <a href="http://fordkerala.org.in">http://fordkerala.org.in</a>
53.	International Medical Association	Service Centre, Shenoy Road, SRRA 44, Kaloor, Cochin 682017, Telephone: 0484-2345975 E-mail : amicochin@gmail.com
54.	Jeevagram	Manickamangalam 683 574, Kalady, kerala, india Telephone : 0484-2464778: 0484-2467018 Mobile No:09447777947, Fax:0484-2464778 E-mail : jeevagram@gmail.com Website: <a href="http://www.jeevagra.org">http://www.jeevagra.org</a>

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

55.	Karl Kuebel Founation for Child and Family	39/741, First floor iyyattil road, Ernakulam, cochin - 682 011. Telephone :0484-2380947: 0484-2381263 Fax :0484-2381263, E-mail: kkfcochin@sify.com Website: <a href="http://www.kkid.org">http://www.kkid.org</a>
56.	Kothamangalam Social Service Society	Bishops House, Kothamangalam - 686691 Telephone : 0485-2861500: 0485-2862692 Mobile No : 9447362034 E-mail :ksss@ksssonline.org Website: <a href="http://www.ksssonline.org">http://www.ksssonline.org</a>
57.	Kothamangalam Taluk Manna Social Service Society	College (po) , Amthirapilly , Kerala pin:686691 Telephone :0485-2826103 E-mail :kmangalamsss@gmail.com
58.	Lakshmi Kesava Educational, Cultural & Charitable Trust	Indraprastam (5/142), Pattoor p.o., alapuzha dt., kerala-690529 Telephone:0479-2374311 Mobile No:9495247826 E-mail: lakshmikesavatrust@gmail.com Website: <a href="http://lakshmikesavatrust.com">http://lakshmikesavatrust.com</a>
59.	Make A Disfference	28/2060d,Harmony Enclave, Chilavanoor Road, Kadavanthra, Telephone: 0484-4049057 E-mail :contact@makeadiff.in Website: <a href="http://www.makeadiff.in">http://www.makeadiff.in</a>
60.	Muvattupuzha Taluk Mannam Social Service Society	Market P.O, Muvattupuzha, KeralaPin-686673 Telephone :0485-2811137 E-mail :mzamss@gmail.com
61.	Nazareth Medical Society Ayroopadam Kothamangalam	Ernakulam (Dist), Kerala. -686692 Telepho : 04864-222114:04864-222018 Mobile No : 9447122018 E-mail :msmedicalcentre@yahoo.com
62.	Nirmal Nikethan Mukthisadan, Integrated Rehabilitation Centre for Addicts	(Sponsored by Ministry of Social Justice & Empowerment, Govt. of India) H.M.T. Junction, Kalamassery, Pincode - 683104, Kerala, India. Telephone : 0484-2555590: 0484-2110627 Mobile No: 9447267344 E-mail : mukthi@ipath.net.in Website : <a href="http://india.gov.in">http://india.gov.in</a>
63.	World Friendship Organization	E-mail: zionhouseofprayer@gmail.com Telephone : 0484-4012956 Mobile : 09388472311
64.	Welfare Services Ernakulam,	Ponnuruni, E-mail: wseekm@gmail.com Telephone :0484-2344243
65.	Vincentian Service Society Marymatha PROV INCE	E-mail: vss@depaul.edu.in Telephone: 0484-2454336, 0484-2458777
66.	Universal Empire Educational Society	E-mail: info@uniempgroup.com Telephone: 0484-4097409



## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

67.	Unity Group, Integrated Rehabilitation Centre for Addicts	E-mai: lunity@nisd.gov.in Telephone : 0484-2596113; 0484-3297121
68.	Udayam Asnnadha Sangam	E-Mail: udayam2002@yahoo.com Telephone : 0484-2442535
69.	Thomas Chittilapilly Trust	E-mail: shanthimandiram@gmail.com Telephone : 0484-3045000; 0484-3045000
70.	The Research Institute	E-mail: researchrajagiri@gmail.com Telephone: 0484-2556579; 484-2555564
71.	Tellus Green	E-mail: mail.tellus@gmail.com Telephone: 0484-2664154; 9847533006
72.	Swaruma Muvattupuzha	E-mail: swarumamuvattupuzha@rediffmail.com Telephone: 0485-2831231
73.	St Jude Family Counselling Centre	Sr.alisha, E-mail: stjudefcc@gmail.com Telephone: 0484-6491282
74.	Sreematha Charitable and Welfare Society	E-mail: mesreematha@rediffmail.com Telephone: 0484-2731452; 0484-2730648
75.	Society for Medical and Healthcare Research	E-mail: suregro@gmail.com Telephone: 484-2376261; 484-4030007
76.	Social Justice Centre	E-mail: justicentre@gmail.com Telephone: 0484-2465407
77.	Social Advancement Foundation of India Rasia Nagar	E-mail: safimails@gmail.com Telephone: 0483-2833512; 0483-2833594
78.	Shilpasociety	E-mail: sruthishilpam@hotmail.com Telephone: 0484-2328977 0484-2232598
79.	Shatkala Govinda Marar Smaraka Kalasamithy	E-mail: shatkalasamithy@gmail.com Telephone: 0485-2277758
80.	Sastra Bhavan	E-mail: shaktibharath@rediffmail.com Telephone: 0484-2393242
81.	Sevashram	E-mail: sevashram@sevashramindia.org Telephone: 0484-2457133; 0484-2454782
82.	Santhimargam	E-mail: asadeepam2005@rediffmail.com Telephone: 0484-2543517
83.	Pallium India	E-mail: pallium.india@gmail.com Telephone: 9388605681
84.	Property Owners Self Help Association	E-mail: poshassociationkochi@gmail.com Telephone: 0484-3094564
85.	Samridhy	E-mail: samridhymvpa@yahoo.co.in Telephone: 0484-6459574

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

### ANNEXURE 12

#### DISTRICT INDUSTRIAL DETAILS

Sl.No	Name of Unit	Location of factory	Tel. Nos.	Line of Production
1	*Aark Synthetics Ltd. +	P-4, CEPZ,Kochi-682 030	2422625, 2422531	Catering disposables & Packagings
2	Abad Exim (P) Ltd.	Plot No.32&33, CSEZ, Kakkanad, Kochi-682037.	2413011,2413010/11	Marine Products
3	Abad Fisheries	Kochi	2227172, 2228272, 2227178, 2227179	Frozen Shrimps
4	* Abad Hotels Ltd.	Kochi	2381122	Three Star Hotel
5	*ABN Granites Ltd.+	Industrial Area, Edayar, Muppathadam P.O, Aluva-683502	2541805(EKM)	Granite metal products
6	*Affiliated Medical Equipments Ltd. +	CEPZ,Kochi	2422519, 2422568	Disposable hypodermic needles
7	*Alampally Brothers Ltd.	Manalimukku, Kuzhikattukara, Aluva-683 563	2623407, 2625382 2626225, 2620628	LPG Cylinders
8	*Al-Bayan Foods International(P) Ltd.	Ground Floor, Shabana Complex, M.G.Road, Cochin 682 035		Food Processing centre
9	Al-Gayathri Trading Co. Pvt. Ltd.	Plot No.43-A, CEPZ Kakkanad,Kochi-682030	2422228,2422474	Tea & Spices
10	Alliance Packagings Pvt. Ltd./ Datta Tin Works Pvt. Ltd.	Plot No.38, Indl. Estate, South Kalamassery-683 109.	2351929 (R.O.)2555227	Tin Containers & Closures
11	*Alliance Leathers (P) Ltd.+	Industrial Development Area, Edayar, Alwaye	(0484) 285547425314, 25270(F)	Wet Blue Hides
12	*Alwaye Fertilizer Industries Pvt.Ltd.+	Keezhmad Aluva- 683 105	2626540,2623178	Magnesium Sulphate Zink sulphate

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13	*AMA Food Products Pvt. Ltd.+	Incl. Devpt. Area, Edayar, Ernakulam - 683 102.	2374391, 98460-269920	Wheat Flour
14	Amison Foods Ltd.	Edakochi	2228804, 2225585	Processed Food
15	AMP Tools (India) Pvt.Ltd.	Plot No.44, CEPZ, Kakkanad, Kochi - 682 030.	2422597	Tools &Molds,Dyes etc.
16	* Anaswara Offset Pvt. Ltd.	48/2123-c,Perandoor Jn. Elamakkara, Kochi-682026	2409335/36	Printing press
17	* Ananth Oil Extractions Pvt. Ltd.	Punjassery, Vengola -683 554 (Via) Perumbavoor	2353023,2371571 (RO) 2523619 (F)	Solvent extracted Coconut oil &de-oiled cake
18	*Anand Water Meter Mfg. Company Pvt.Ltd.	Palluruthy, Industrial Area, Kochi - 682 006.	2366779(RO)	Water Meters
19	*Arjuna Natural Extracts Ltd.	Koders Centre,Bye-pass Road, Aluva-683101	2622644,2622655	Essential Oils & Oleoresins
20	*Artech Power Products Ltd.+	Kandanad P.O. Thiruvamkulam-682 305	2318714/15 (RO)	Switched mode power
21	Asma Rubber Products Pvt. Ltd.	CEPZ, Kakkanad, Kochi-682030	2422497	Examination Gloves
22	Astro-Vision Software Engg.	IT park, Plot No. 16-B, CEPZ	2427114,2372735	Computer software
23	*Auric Brown Crumb Rubbers	Mosque Road,Muttom Aluva-683 106	2629969-71	Crumb rubber
24	AV Thomas Group Co.		2315312	Examination Gloves
25	*Avenir Computer Services Exports (P) Ltd.	Vazhakkala,Kakkanad, Cochin-682030	2340469	Software development
26	*Ayodhya Printers (Pvt) Ltd.	Elamakkara, Ernakulam	2346797	Printing Press
27	*Ayyappa Roller Flour Mills Ltd.	South Kalamassery, Kochi-682 022	2555941/42	Wheat Flour products
28	*Beena Apparels Pvt. Ltd.+	Perumbavoor-683542	2525010	Readymade garments
29	Bharath Petroleum Corporation Ltd.	BPC Refinery Co-ordinator,KRL Ltd. Ambalamugal, Kochi-682302	0484-2720869	Petroleum Products
30	*BGR Hotels Pvt. Ltd.	Kunnathidavaka Near Vyttila Jn., Maradi Village, Kanayannur	2305519	Three Star Hotel

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

31	Bimbimo Garments (P) Ltd.	Plot No.10 CEPZ	2424910	Readymade garments
32	*Binani Zinc Ltd. (Division of Binani Industries Ltd.)	Binanipuram Aluva-683 502	2431698(Calcutta) 2540175(F)	Zinc ingots, Sulphuric acid, Cadmium
33	*Blue Chip Diamonds Ltd.+	Plot No.12A,CEPZ, Kakkanad Kochi-30	2422559	Plain & studded gold jewellery
34	* Bread Line Food Products(India) Pvt. Ltd.	Hospital Road, Kochi-682 011		Bakery cum confection-ery unit
35	*BSES Kerala Power Ltd.	Combined cycle power plant Udyogamandal, Kochi-683501	0484-3052020	Power
36	Carborundum Universal Ltd.		044-42216789	
36.1	Edapally Division	P.B.No.1, Kalamassery, Development plot P.O.,Kochi-9	2541058, 2540525, 2856058, 2859609	Electro minerals, oxide grains
36.2	Maniyar Division	Maniyar P.O,Vadasserikara, Pathanamthitta-689662	0475-274223	Hydro electric works
36.3	Koratty Division	Nalukettu,Koratty,Thrissur -680308	2732061	Electro Minerals
37	* Covema Filaments Ltd.	CEPZ, Kakkanad, Kochi-682 030	2422504,2422516	Nylon mono Filament, Sewing Tread
38	Charanagat Softech Exports Pvt. Ltd.	Kacheripady, Cochin-682018	0478-2864423(RO), 0484-2392191, 2394772	Software
39	Chakolas Spinning & Weaving Mills Ltd.	Kalamassery, Ernakulam-683 104	2541831-4	Cotton yarn, cloth
40	Classic Home Furnishing (P) Ltd.	Plot No.16, CEPZ Kakkanad, Kochi-682 030	2423582	Coir/Jute Products
41	*Coastal Resorts (India) Ltd.	Fort Cochin		Three Star Hotel
42	*Chemmannur Gold Refinery (P) Ltd.	Industrial Development Area Edayar-683502	2351746/749	Refining of gold
43	*Chelur Satellite Communication Systems Ltd.+	CEPZ, Plot No.8, Kochi	2422962/3	Integrated receiver, Discrambles Satellite

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44	*CII Guardian International Ltd.	16-13, CSEZ, Kochi - 682 037.	(0484) 2316606, 2413031	Harmetically sealed miniature relays
45	Classic Paints	The Monarch,3rd Floor,PT Usha Road, Kochi-682011	0484 282662	Classic acrylic emulsion/distemper paints
46	*Cochin Clays & Minerals Pvt. Ltd.	Industrial Development Area Erumathala P.O., Aluva	0484-2677381, 2677581	Chemically treated bleached clay
47	*Cochin International Airport Ltd.	Kochi Airport, Kochi-683 111	0484-2374154(O), 2610115	Airport
48	*Cochin Kagaz Ltd.	Karukutty, Angamally-683576	0484-2627858, 2620858	Semi and nonvirgin kraft paper
49	*Cochin Minerals & Rutile Ltd.	Aluva-683101	0484-2624861, 2532186(F)	Synthetic Rutile
50	Cochin Roller Flour Mills	Kalamassery	2855941, 2855942	Wheat Products
51	*Coramandel Condiments Ltd.	Kakkanad, Kochi-682030	91484 353811	Spices/Curry Powder
52	*Crescent Crumbs Pvt. Ltd.	Erumathala,Aluva	2626952,2622723	Crumb rubber
53	Crysind Electronics Pvt. Ltd.	Stone House, Market Road, Aluva-683 101	2422868, 2422990	Crystal Oscillators
54	Cochin Spices Ltd.	CEPZ, Kakkanad, Kochi-682030	2424086,2422650	Spices
55	*Cyber Prism Software Training(India) Pvt. Ltd.	Maradu, near Kochi		Software
56	Casino Hotels	Kochi-682033	2668421 (O)	Star Hotel
57	Cochin Port Trust	Willingdon Island, Cochin-682009	0484-2666871	Maritime Services
58	Cochin Shipyard Ltd.	Perumanoor, Kochi-682015	2361181,2351181	Ship Building
59	*Danntex Rubber (P) Ltd.+ (Under AVT Group from Nov.1992)	CEPZ, Kakkanad Kochi-682 030	2422517 2802517 (F)	Examination Gloves
60	*Datahard Infosystems (P) Ltd.	Pallimukku, Ernakulam South	2357885	Software development & Training
61	*Datamate Infosolutions Pvt.Ltd	IT Park ,CEPZ, Kakkanad, Kochi	2413056/76	Software products

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62	*Diode Information Technologies(P)Ptd	EPIP, KINFRA,Kakkanad,Kochi		Medical Transmission Facilities
63	D.V. Deo	CEPZ, Kakkanad	2422248	Essential Oil
64	Eastern Group	4th Floor,C-Block,Mather Square, Opposite North Railway Station, Ernakulam-682018	0484 2393500, 2395510	Curry powder, mineral water etc.
65	*Eastern Treads Ltd.	4th Floor,Mather Square, Opp.North, Railway station,Kochi-682018	0484-2395510,2397458	Tread Rubber
66	*Edathala Polymers (P) Ltd.	Edathala, Aluva-683564	2626302, 2628981	Crumb Rubber
67	*Edmans Imaging Pvt. Ltd.	Image Plaza Complex, Near Ernakulam, North Rly.station, Kochi-682018		Processing of photographs
68	*Eminent Seafoods (P) Ltd.	No.9,Cochin Fisheries Harbour, Thoppumpady, Kochi-682005	2310610	Frozen Seafood
69	*Emsons Treatwood Ltd.+	Erumathala P.O, Aluva-683105	0484-2364586, 2626894	Treated Rubber Wood
70	*Emtex International Ltd.	Karingazha, Chelad P.O., Kothamangalam - 686 691.	2380446,2364950, 2522053(F)	Fine & Superfine quality Cotton Cloth
71	*Eurotech Maritime Academy Pvt. Ltd.	Kizhakkambalam village,Kunnathur	2340099	Institution for Mariners training training with state of art facilities
72	Everest Plywoods	Kanjirakkad, Rayonpuram P.O, Ernakulam-683543	0484 2591339	Plywoods, black boards Flush doors
73	*E.V.M Rubmix Co. Pvt. Ltd.	Industrial Devpt. Area, South	0484-2677382(F)	Rubber compound
	(Unit of AVT)	Vazhakulam, Erumathala P.O.	0484-2822935(RO)	Tread rubber
74	*Falcon Industries Ltd.	Eloor Road,Kalamassery, Kochi	22543709	Modern Truck Terminal
75	Fertilizers And Chemicals Travancore Ltd.		2532418, 2543345	Ammonium sulphate/ Urea, Caprolactum etc
75.1	The Udyogamandal Division	Udyogamandal-683 501	2541106-08	Ammonium Sulphate/Phosphate,Caprolactum, Complex fertilisers
75.2	The Cochin Division	Ambalamedu,Kochi-682303	2780281-87	Sulphuric Acid,Urea etc.

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75.3	FACT Engineering Works	Palluruthy Indl.Estate, Kochi-6	2545004,2540926	Engg.& Fabrication services
76	* Fibre Queen Mattresses (P) Ltd.	Sy. No.104/1-2, Iringol Post, Perumbavoor, Ernakulam-683 548	0484-2523626, 2528626	Rubberised coir mattress
77	*FITCO Dipped Products Pvt. Ltd./ Primus Gloves (P) Ltd.	Plot No.14A, CSEZ, Kakkanad, Kochi-682037	2413063/76	Clean room gloves, surgical gloves
78	Forest Industries (Travancore)Ltd.	Thaikattukara,Aluva-683106	2623641,2623642	Timber Products
79	*FCI OEN Connectors Ltd.	Electrogiri, Mulanthuruthi-682 314	2303027, 2301320, 2711074,2711072 (F)	Multipin printed circuit board connectors
80	*G&A Multimedia Pvt. Ltd.	Cochin International Air Port Nedumbassery,Ernakulam-683111	22312780	4 video walls at the domestic & international terminals of CIA
81	*Gaanam Hotels Ltd.	Kochi-682016	2367123,2365313	Star Hotel
82	*Gabbi Foods Ltd.+	Industrial Development Area, Erumathala, Aluva		Steam sterilisation of pepper
83	*Geojit Securities Ltd.	Finance Tower,Kaloor Road, Kochi-682017	2405501/02	Stock broking services
84	Getwood Pvt. Ltd.	Rayamangalam,Perumbavoor-682015	0484 2524783	Treated & seasoned rubberwood
85	*Geo Marine Exports Pvt. Ltd.	Palluruthy,Kochi	2370838	IQF Shrimps
86	*Gold Farm Foods Pvt. Ltd.	22/1396, Edakochi,Kochi-682006	2231447, 2232708	Frozen Sea Foods
87	Geo Seafoods	Thoppumpadi, Kochi-682006	2232695,2231356	Seafoods
88	Gautham Hospital	Panampilly Nagar,Kochi-682001		Hospital
89	*Gramox Paper &Boards Ltd.	11/245A,Puthupady P.O,	04824-20089(RO) 2815592, 2816192	Duplex Board
90	*Green Valley Specified Rubber Pvt. Ltd	Industrial Development Area, Erumathala,Aluva-683 105	2677382 (Aluva),2677440	Crumb rubber
91	*GTN Textiles Ltd.	Erumathala Post,Aluva-683112	2839491(5 lines)	Cotton/Synthetic yarn

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92	*Harmony Spices Ltd.	Koovappadam,Thoppumpady, Ernakulam-682002	2226854,2223286	Processed and Sterilized Pepper
93	Harrisons Malayalam Ltd.	Willingdon Island,Bristo Road Kochi- 682003	0484 2668023	Rubber
94	High Tech Seals (P) Ltd.	Industrial Development area, Muppathadam P.O,Aluva,Ernakulam	0484 2559573	Industrial gaskets, mechanical seals etc.
95	Hindustan Insecticides Ltd.	Eloor P.O., Udyogamandal-683 501	4364234(O)2546218	DDT (Tech.),BHC etc.
96	Hindustan Lever Ltd./ Tata Oil Mill Co. Ltd.			
96.1	Cochin Factory	Tatapuram,Kochi-682 014	0484-2395040	Toiletries,Vanaspathy,
96.2	Calicut Factory	TrikovillLane,BigBazar,Kozhikode-1	0495-2704016	Fatty acids
97	Hindustan Organic Chemicals Ltd.	Ambalamugal P.O,Pin-682 302	021922-50040, 50049(O), 0484-2720911 to 14	Phenol, Acetone
98	H M T Ltd.	HMT Colony P.O. Kalamassery-683 503	23330333(O)2532421,2 540731(F)	Machine Tools,Lathes, Printing machine
99	*Hindustan Lubricants Co. Pvt. Ltd.	Incl. Devpt.Area Erumathala,Aluva	2402315, 2403145	Lube Oil
100	*Hotel Harbour View	Opposite Cochin Shipyard, MG Road,Kochi- 682015		Three Star Hotel
101	*Hotel Sangeetha	Kochi-682016	2376320,2375408	Star Hotel
102	*Hykon Transcripts Pvt. Ltd.	1st Floor,IT Park, Plot No.16A, CEPZ, Kochi		Medical Transcription Unit
103	*Hyrange Wood Treats Pvt. Ltd.	Keerampara P.O,Kothamangalam-686691	0485-2571381	Treated Rubberwood
104	IGA Tech Industrial Electronics Pvt. Ltd.	XII/230,Morarji Road,Vazhakkara, Kochi- 682030	0484 6594449	UPS Systems ,invertors stabilizers,SMPS etc.
105	Indian Oil Corporation Ltd.	Panampilly Avenue,Panampilly Nagar, Kochi-682036	0484-2319898	Petroleum Products



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106	*India Cassettes Pvt. Ltd.+	16A1 CEPZ,Kakkanad, Kochi-682 030	2422132,2424683	Video Cassettes
107	Indian Aluminium Co. Ltd.	Alupuram,PB.No.30, Kalamassery-683 104	2532441/48(F)	Aluminium Ingots,(billets extruded)
108	*Indian Express (Madurai) Pvt. Ltd.	Kaloor,Kochi-682 017	2341418,2341215, 2341220, 2361616(KOZ)	Printing press
109	Indian Transformers Ltd.	Kalamassery-683 503	2855822, 2855477, 2859577 (Kochi)	Power Distribution Transformers
110	*Indo German Carbons Ltd.	57/3,Old Mosque Road,Edayar Indl. Area,Binanipuram-683502	0484-2551986, 0484-2558105/6	Granular activated carbon
111	Indus Soft DT (P) Ltd.	IT Park, Plot No.16-B,CEPZ, Kakkanad,Kochi-682030	2426761	Medical Transcription
112	Infrastructures Kerala Ltd	INKEL Centre, Nr Vallathol Junction, Seaport-Airport Road, Thrikkakkara P.O,Cochin-682021	0484-6491138, 2577942, 2577943	Industrial Infrastructure Development
113	*Integrated Computing Environments Ltd.	No.4, CEPZ, Cochin - 682030	2316048(TVM), 2422567 (Kochi)	Computer Software
114	*Intimate Apparels (P) Ltd.+	No.18, CEPZ, Kakkanad,Kochi 682 030.	0484-2422355/70	Readymade Garments & Computerised embroidery materials
115	*i Path India Pvt. Ltd.	G-358,Panampilly Nagar, Kochi-682036	0484-2314720/742	Software development & exports
116	*Intrans Electro Components Pvt. Ltd.	298-D, Indl. Devp. Area Erumathala, Aluva-683 105.	2205558,2205927	Instrumentation & distribution transformer
117	Janco Dipped Prod. (P) Ltd.	Plot No.18, CEPZ,Kochi-682030	2422527	Examination Gloves
118	*J.J.Roller Flour Mills (P) Ltd.	PLot No.30,Indl.Devpt. Area, Punnapra Industrial Estate	2677979	Wheat Flour products
119	* Johan Plastmet Pvt. Ltd.+	Plot No.33,Indl.Dev.Area, S.Kalamassery 682022	2327653(TVM), 2315373 (EKM)	Continuous Computer Stationery forms

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

120	J-Son's Exporters	Plot No.16-A, CEPZ	2422094	Dubbed Films
121	Kalpana Agro Mills	Mattor,Kalady P.O,Ernakulam	0484 2461988	Boiled rice
122	Kerala Agro Machinery Corporation Ltd.	Athani P.O.,Chengamanad	2474301 to 05	Kamco power Tillers
123	*Kerala Ayurveda Pharmacy Ltd.	VII/45,Nedumbassery, Athani P.O,Aluva-683505	2476301-4	Ayurvedic medicines
124	Kerala State Bamboo Corpn.Ltd.	Angamally,Ernakulam-683573	2452248	Bamboo Plywood
125	*Kairali Dyes & Chemicals Pvt. Ltd.+	Sy.No.62/5-A.D.A.Edayar,P.O. Binanipuram,Ernakulam-683502	2540715,2557851	Vat Dyes
126	Kancor Flavours and Extracts Ltd.(Formerly Bombay Oil Industries)	XVII/138,Kanakkankadavu Road, Angamally Souh,Ernakulam-683573	2452236/37, (Angamally)	Raw Oils, Refined oils, Fatty Acids
127	Kathayee Cotton Mills Ltd.	Perumbavoor,Aluva-683101		Cotton /SF Yarn
128	Kerala Flour Mills	Mattancherry, Kochi - 682 002		Wheat Products
129	*Kerala Electric Lamp Works (A Division of Crompton Greaves)	P.O.Athani, Aluva-683 585	2474501-05	Fluorescent Tubes, GLS Lamps, MV Lamps
130	Kerala Electrical &Allied Engg. Co. Ltd.		2310012/13/14(Kochi)	
130	The Kundara Division	Kundara, Kollam-691 501	0474-2522215	Brushless Alternators, Steel Structures, Distribution Trans- former,electrical
130.2	The Mamala Division	Mamala, Kochi-682 036	0484 -2787705/7/8	Switch items etc.
130.3	The Olavakkot Division	Olavakod, Palakkad-678 731	0491 -2555241, 2555113	
130.4	The Kasaragod Division	Bedradka P.O, Kasargod-671 127, Puthur-670 128	04994-232323/26/24	
131	*Kerala Rubber & Reclaims Ltd.	Mamala ,Kochi-682 305	2395363(O), 5519697(F)	Reclaimed Rubber, Rubber compounding, Latex gloves

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

132	Kerala State Handicrafts Apex, Co-operative Society Ltd.	SURABHI No.231,M.G.Road, Ernakulam-682 016	0484 2377978	Handicrafts in sandal/rose/white wood
133	Kitex Ltd.	Aluva	0484-2682200	Hosiery Items
134	KKR Group of Companies	Okkal P.O,Kalady-683550	91 484 2462422	Rice powder, spices
135	Kochi Refineries Ltd.	Ambalamugal P.O., Kochi-682302	2722061	Crude oil processing,asphalt drums
136	Kothandarama Roller Flour Mills Pvt. Ltd.	Angamally South-683573		Wheat Flour Products
137	*Lakeshore Hospital & Research Centre	Maradu, Near Kochi	2701032/33	Tertiary level Hitech Hospital
138	*Lansea Foods Pvt. Ltd.	Kumbalangi, Ernakulam	2247224,2247286	Frozen marine products
139	*Lansea Ice & Cold Storage Ltd.	Kumbalangi, Ernakulam	2247224,2247286	Frozen marine products
140	*Leela Lace International Ltd.	Plot No.16 A,Garment Complex, Kochi- 682020	28600719, 2424736 (F)	Readymade garments
141	*Lotus Spices Pvt. Ltd.	Plot No.25, CEPZ, Kochi.-682030	2424884 (F)	Steam sterilised pepper powder,Bricks
142	Lukens Medical Prod. (P) Ltd.	Plot No.7, CEPZ, Kochi.-682030	2423605,2421246	Needles,Lancet & Lark Scaples
143	MAK Games & Musical Equipments (P) Ltd.	Plot No. 12-B, CEPZ, Kochi.-682030	2422153	Bows for the stringed musical instruments
144	*Mahalakshmi Jewellery Ltd. +	CEPZ,Kochi, Kochi.-682030	2367498	Plain & Studded gold jewellery
145	*Manorama Oxygen Pvt. Ltd.	59, B-Major Industrial Estate, Kalamassery-683109	0484-2550766, 2550129	Industrial Oxygen
146	*May Flower Hotels (P) Ltd.	41/2347,Perambra Road, Ernakulam, Kochi - 682 018.	2363100	Star Hotel
147	Meat Products of India Ltd.	Koothattukulam-686662	2252365	Meat & Meat products animal feeds

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

148	*Medivision Scan & Diagnostic Research Centre Pvt. Ltd.	Sreekandath Road, Ravipuram, Kochi - 682 016.	2360044,2360066	Speciality Hospital
149	*Merchem Ltd.	Eloor, Aluva-683501 Edayar-683110	2382285,2381617(O) 0484-2559457	Rubber Chemicals
150	*Met-rolla Steels Ltd.	Paipra Village, Muvattupuzha-683557	2835045/2834085, 2835755	Steel Re-rolled products
151	*M Far Hotels Ltd.	NH 47 Bypass,Kundannur Jn., Cochin- 682304	2706116/7	Delux Hotel
152	Midland Latex Prod. Ltd.	Plot No. 14-C,, CEPZ	2422826,2422514	Examination Gloves
153	MVJ Foods (India) Pvt. Ltd.	UC College P.O,Aluva-683102	0484 2604280	Curry powder, rice powder
154	* Mode Creazone India Ltd.	16A,CEPZ, Kochi	2422355/70/74/86	Readymade Garments
155	*Model Medical Diagnostic Research Centre	Pallimukku, Ernakulam	2371852	MRI Scan Centre
156	Modern Food Industries (India) Ltd. (Hindustan Lever Ltd.)	Edappally, Kochi-682 024	2344272,2344273 (Ernakulam)	Bread, Bun
157	MRM Crumb Rubber Factory (A unit of Muvattupuzha Taluk Co-operative Rubber Marketing	Muvattupuzha-686 673		Crumb Rubber
158	*Malayalam Industries Ltd.	Kaniyampuzha,Vyttila, Kochi-682 019		Three Star Hotel
159	*Mudakkalil Granites Pvt. Ltd.	Karimattam,Ayavana P.O, Muvattupuzha- 686 676.	0485-2888234	Granite metal products
160	*Muthoot Apt Ceramics Ltd.	Plot No. 9,CSEZ ,Kakkanad, Kochi-682030	2351481/485(O) 2413142/3	Speciality vitreous china sanitary ware
161	*Nagajuna Ayurvedic Resorts Ltd.	Thannipuzha,Okkal, Kalady, ERnakulam- 683 550	(0484) 2463350	Ayurvedic Resorts

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

162	Nagarjuna Ayurvedic Retreat Ltd.	536A/1, Mulamkuzhi, Malayattoor, Ernakulam, Kerala - 683 587	0484 2469012	Ayurvedic Centre
163	*Naz Rice & Foods Pvt. Ltd.	Nalam Mile, Industrial Development Area, Aluva-683 105	0484-2639300	Sortex rice
164	*Nenmani Agro Mills Pvt. Ltd.	Industrial Development Area, Erumathala, Nalam Mile, Alwaye-683105	2677277, 2677017	Stoneless rice
165	*Nesso Information Technologies Ltd.+	3rd Floor, B Block, Garment Complex, Plot No.16A, CEPZ, Kakkanad, Kochi-30	2425275	Computer software
166	Nest Information Technologies P. Ltd.	Plot No.43-A, CEPZ, Kakkanad, Kochi-682030	2413224	Computer software
167	Nikasu Frozen Pack Pvt Ltd.	CSEZ, Kakkanad, Kochi-682030	0484-2413167, 2413189	Frozen Foods
168	Nikasu Pack Pvt Ltd.	CEPZ, Kakkanad, Kochi-682030	0484-2422525, 2423042	Feeding Bottles
169	Nortpack Fibre Optics (P) Ltd.	Plot No.2, CEPZ Kakkanad, Kochi-682030	2422868, 2422092	Fibre Optics
170	*OCL Infomatics Ltd.	Thykodam, Vyttila, Kochi-682019	2303028, 2303027	Computer software
171	*Ocean Dredging (India) Pvt. Ltd.	Various places	2310343	Marine services
172	*O/E/N India Ltd.	Electrogiri, Mulanthuruthi-682 314	2302483, 2301132, 2711322 (F)	Relays, Switches, Potentiometres
173	*Omega Pipes Ltd.	Chalikkavattom Road, Vennala, Kochi - 682028	2371440, 2352502	PVC Pipes & fittings
174	*Okay Nitrous Pvt. Ltd.	Major Industrial Estate, Kalamessery-683109	25507166	Anaesthetic nitrous oxide
175	*Oshon Treads Ltd.	Sy.No.444/465, North Palakkuzha, Muvattupuzha	2252317	Precured Tread Rubber
176	*Otee Frini (India) Ltd. +	Plot No.40, CEPZ, Kochi-682 030	2802461 (TCR)	Telescopic Antennae
177	Overseas Latex Pvt. Ltd.	CEPZ, Kochi		Examination gloves
178	* Philips Carbon Black Ltd./ Carbon & Chemicals India Ltd.	Karimugal, Brahmapuram P.O, Kochi-682 303	2230-9281(O), 2720833, 2720383(F)	Carbon Black

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

179	Pacific Costumes Jewels International Pvt. Ltd.	Plot No. 16-B, CEPZ	2426877	Imitation Jewellery
180	*Pamba Tyres Pvt. Ltd.	South Vazhakulam, Aluva, Ernakulam-683105	0484-2677420, 2678759	Cycle Tyres
181	*Peejay Rubber Industries Ltd.	Kuzhivelipady, Edathala P.O., Aluva - 683 561	0484-2462418, 5581422(F)	Butyl rubber tubes for heavy vehicles
182	* Periyar Agro Food Industries Pvt. Ltd.	Punjassery, Arackappady village, Kunnathunadu, Ernakulam		Wheat Flour
183	*Periyar Chemicals Ltd.	Edayar, Binanipuram-683 502	2381134, 2380195(RO), 2540081, 2541031(F)	Formic Acid, Sodium Sulphate
184	Perumbavoor Plywood Manufacturers	Seepison plyboards, kandathara, Allapra P.O, Perumbavoor-683542	0484 2524042	Non Decorative face, veneers & Plywoods
185	*Petecarlson Solutions (P) Ltd.	CEPZ, Kochi-30, Kakkanad Kochi-682030		Medical Transcription
186	Photon Data Links (P) Ltd.	Plot No.43, CEPZ, Kochi-682030	2423237, 2422037	Data Links
187	*Poysha Industrial Co. Ltd.	Edapally, Kochi - 682 024.	2803485/6/7, (Kochi)	Open top cans, tin containers
188	*Profitcore Pipes Ltd.	XXXVII/1779-B, KS Garden, Thomman Road, Kathrikadavu, Thammanam, Kochi - 682017.	2343326	PVC Pipes
189	Project Garments (P) Ltd.	Plot No. 38, CEPZ, Kakkanad Kochi-682030	2424712	Readymade Garments
190	Premier Tyres Ltd.	Kalamassery, Aluva-683 104	2381902/03, 2540262 to 268 (F)	Automotive Tyres and Tubes
191	*Premium Ferro Alloys Ltd.	VI/565F, Industrial Devpt. Area, Edayar, Aluva-683502	2356717, 2356735, 2556601, 2556607	Mild steel ingots
192	Petronet CCK Ltd.	New Oil Installation of Bharath, Petroleum, Irimpanam, Kochi-682 309	0484-2778150/51	Petroleum Pipeline
193	Quick Mix Spices (P) Ltd.	3rd Floor, DD Milestone, Kadavanthara, Ernakulam	91 484 2205344	crushed chilly, chilly, powder, curry powder etc.

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

194	Rado Tyres Pvt. Ltd.	Kothamangalam-686691	2360010, 2362139	Rubber Mixig,Scooter, Tyres, Moped Tyres etc.
195	*Rice Tech Agro Mills Pvt. Ltd.	P.B.No.23, Mattoor, Kalady-683 574	0484-2464307	Stoneless rice
196	*Ron Maritime Ltd.+	Inland waterways NWIII in Kerala		Fabricate/Operate Oil, oil,tanker barge
197	* Rubek Ballons Pvt. Ltd.	Rubber park , Irapuram, Ernakulam		Toy Ballons
198	Saba Powerdex (P) Ltd.	Plot No.40,CEPZ, Kakkanad,Kochi-682030	2425969	Lithin Cell
199	* Sri Asoka Textiles Ltd.	Aluva - 683 101, Ernakulam	2625306	Cotton/SF Yarn
200	*Safeshield India Rubber Products Pvt. Ltd.	Plot No. 16 B ,CEPZ, Kakkanad, Kochi-682030		Powder free gloves
201	Safe Power Industries	IV/566A,Trikkakara,Kochi-682024	0484-2346857	Inverters,UPS,battery charger charger
202	*Sai Krishna Organics (P) Ltd.+	Industrial Estate, Kalamassery-683104	2775071	Paracumyl phenol
203	*Saj Flight Services (P) Ltd.	International Airport, Nedumbassery, Kochi-683590	2456626	Flight catering & handling services
204	*Seven Seas Nylons Ltd.+	Industrial Estate, Kalamassery	2586632	Nylon fishing nets
205	L.J.International Ltd./Formerly Sheveroy Estates Ltd.	Plot No.10 & 11, CEPZ, Kakkanad, Kochi-682 030	2422414, 2422463, 2363864 (Kochi)	Tissue Culture
206	*Silpi Agro Tech (P) Ltd.	8/406, Industrial Development Area, South Vazhakulam P.O., Aluva - 683 105.	0484-2678673	Animal Feed
207	*South India Wire Ropes Ltd.(Seshasayee Wire Ropes Ltd.)	Edathala, Aluva-683 561	2683931/32/33	Steel Wire Ropes, Wires etc.
208	*Sree Mahalakshmi Food Industries Ltd.	Edayar, Kochi	2231412,2232275	Rasika Fruit Drinks

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

209	*Sree Sakthi Paper Mills Ltd.	(i)Development Area,Edayar -683102 (ii)Kanjirappally,Chalaky	2373230, 2371085 (O),2555835,0480- 2746129	Kraft Paper, Duplex board
210	*Sri Srinivas Roller Flour Mills Pvt. Ltd.	Industrial Development Area Edayar, Aluva-683 502	0485-2811270(O), 2812486(F)	Wheat Flour Products
211	Sree Rahul Mills Pvt. Ltd.	Industrial Development Area, Edayar, Aluva-683 502	2857992	Wheat Flour Products
212	Steripharm	Plot No. 16-A,CEPZ (Garment Complex) Kakkanad,Kochi-682030	2425915	Surgical & Patient's gown
213	*Steriltx (India) Pvt. Ltd.	CEPZ, Kakkanad, Kochi.	2424910 (EKLM)	Powdered gloves & powder free gloves
214	Sterling Gases Ltd. (Subsidiary of West Coast Industrial Gases Ltd.)	HOC Complex,Ambalamughal Kochi-682 302	2369785,2369570	Liquid Oxygen/ Nitrogen, Gaseous, Oxygen/Nitrogen
215	Sun Fibre Optics Pvt. Ltd.	Plot No.37, CEPZ, Kakkanad,Kochi-682030	2422092,2422868, 2422590,2423087(F)	Examination Gloves
216	Sun Generic Cables (P) Ltd.	Plot No.43, CEPZ, Kakkanad,Kochi-682030	2423237,2422037	Cable Assemblies
217	*Soft Systems Ltd.	STPI-Kochi,Kacherippady, Kochi-682018	2422841,2427118, 2394580,2396009	Software package for agriculture business
218	*Southern Gas Ltd.	1.Udyogamandal-683501 2.Trivandrum	2545971,2546895 (Udyogmandal)	Oxygen, Dissolved Acetylene, Nitrogen
219	Swiftlink (P) Ltd.	Plot No.43, CEPZ, Kakkanad,Kochi-682030	2423237,2422037	Coupler
220	Synthite Industrial Chemicals Ltd.	Synthite Valley, Kadayi ruppu, Kolencherry-682 311	2760367	Oleoresins, Spices Oils etc.
221	*Thachankary Plantations Pvt. Ltd.	Eloor North,Paravoor, Ernakulam-683501, Ernakulam-683501	2367773,2370060	Tourist Resort
222	*TMV Natural Oils & Extracts (P) Ltd.	5/678 K,Development Area, Edayar,Muppathadam P.O,Kochi-683 110		Natural Oils, Herbal Extracts
223	*Traco Cable Co. Ltd.	1.Irimpanam,Kochi-682 309	2314847,2314864(O)	AAC/ACSR/conductors, copper



## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

		2.Chumathra,Thiruvalla-689103	2780937, 0469-2730231	conductors, Jelly filled cables
224	Transformers & Electricals Kerala Ltd.	Angamally, Ernakulam-683 573	2452251-3	Current Transformers, Circuit Breakers
225	*Travancore- Cochin, Chemicals Ltd.	Eloor, Udyogamandal-683501	2545011 to 21	Caustic soda, liquid chlorine, hydrochloric acid
226	*Toja Tyre & Treads (Pvt.) Ltd.	35/111, MC Road, Mattoor, Kalady-683574	(0484)2462418, 2464418	Precured Tread Rubber
227	*Tolin Rubbers (P) Ltd.	'26A/111, Rubber Junction, MC Road, Kalady - 683 574.	2464418, 2462418	Mixed Rubber,procured tread rubber etc.
228	*Toshiba Anand Batteries + Ltd.	H.M.T. Colony P.O., Kalamassery-683 503	2353898,2353904, 285-6114/5/6(T)	Dry cell batteries
229	Travancore Chemical & Mfg. Co. Ltd.(TCM LTD)		2343314	Pesticides, Potassium Chlorate
229.1	Kalamassery Division	Kalamassery, Ernakulam		Pesticides
229.2	Kundara Division	Kundara, Kollam	250,520 (Kundara)	Potassium Chlorate
230	Travancore Rayons Ltd.+	Perumbavoor, Ernakulam	2522382, 2523213	Rayon Yarn, Cellulose , Film,Cottonlinter pulp
231	*Trend Designs Ltd.	Garment Complex,Plot No.16A, CEPZ Kakkanad, Kochi-30	2422355,2422370	Readymade Garments
232	*Trend Setters Instyle India Ltd.+	CEPZ, Kochi-682 030	2422355/70/74/86	Winter Jackets
233	*Trend Textiles Ltd.+	CEPZ, KOCHI, Kakkanad, Kochi-682030	2422355/70/74/86	Polyfill Padding, Materials
234	Taba Gloves Pvt Ltd.	CEPZ, Kochi, Kakkanad, Kochi-682030	2422506	Examination Gloves
235	*Tamilnadu Ammonia Pvt. Ltd.	Edayar, Industrial Development, Area, Muppathadam, Aluva – 682010	2540650	Anhydrous Ammonia, Liquid Ammonia
236	Tata Ceramics Ltd.	Plot No. 26, CEPZ, Kakkanad, Kochi-682030	2422809,2422152	Table wares
237	Tyco Electronics Tools (I) Pvt Ltd.	Kakkanad, Kochi-682030	2422597,2422598	Tools

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

238	*Union Air Products Pvt. Ltd.	Desom, Alwaye-683 103	2360172(O),2626108(F)	Indl.Oxygen & Medical Oxygen
239	United Catalysts India Ltd/ SUD-Chemie India Pvt. Ltd	Edayar, Binanipuram-683502	2540481/87	Girdler & CCI/ Catalysts
240	*Universal Gloves Pvt. Ltd.	CEPZ,Plot No.15,Kakkanad, Kochi-682 030	2344354,2344301, Kochi-682 030, 2422469 (F)	Latex based disposable, Examination Gloves
241	Uniwood Products	Devikripa,Chittoor Road, Valanjambalam,Kochi-682016	0484 2376819, 2376748	wood products
242	*Veega Holidays & Parks Pvt. Ltd.	Pallikkara, Kumarapuram P.O. Kochi-683 565	0484-2539911	Amusement Park
243	Veejay Rice Mill	Industrial Development Area, Angamally South,Ernakulam-683573	0484 2454211, 2452511	Boiled rice,rice bran
244	*Veera Treatwood Ltd.	Plot No.42,CEPZ, Kochi-682030	2422536	Rubber Wood moulding and components
245	V.R. Wood Art Ltd.	Plot No.42,CEPZ, Kochi-682030	2422536	Rubberwood products
246	*Vysali Pharmaceuticals Ltd.	1)34/754,755,Edappally,Kochi-24 2)IX/639,Edathala P.O,Pin-683561	2339591 to 92 (RO) 2344221	Drugs Formulations
247	*Watts Electronics Pvt. Ltd.	Kalamassery South, Ernakulam-683503	2368104,2352619	Carbon film resistors, Metal film resistors
248	*Wave Online Infoway (P) Ltd.	2nd Floor,Preethi Bldg. Vyttila, Kochi-682019	2306729	Medical Transcription Unit
249	West Coast Industrial Gases Ltd.	Perumanoor, Ernakulam-682015	2369785,2369570,(RO), 2367291(F)	Oxygen,Acetylene
250	Wiltech Software Solutions Pvt. Ltd.	CEPZ,IT Park,Plot No.16B, Kakkanad, Kochi-682030	2426971/72	Software
251	Zoetic Polymers Pvt. Ltd.	CEPZ		Examination Gloves

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

252	Kalki Communications Tech Ltd.	2nd floor, Ananthapushpa Bldg, No.147,5th mainroad,HSR layout,7th Sector Banglore, Karnataka-560034	080-40527900 ,0484-2605018	Export Oriented Software Development Centre
253	Kalliyath Developers Pvt. Ltd.	SIDCO Industrial Park, Angamaly	2341528	Sizing, bending of steel rods for construction purpose
254	Kerala Enviro Infrastructure Pvt. Ltd.	Inside FACT CD Campus, Ambalamedu, Kochi-682303	0484-3117937	Waste processing
255	Hebron Aqua & foods India Pvt. Ltd.	H.No.31/1166 Convent Road Ponnuranni, Kochi-19	938822277 (Mr.Varghese)	Packed Drinking Water
256	Reva Proteins Ltd.	Kathikudam Koraty, Thrissur Plot No. 832,GICD Ghatatia,Gujarat	0484-2317805	Manufacturing of ossein

**ANNEXURE 13**

**KOCHI METRO RAIL**

Kochi Metro is an under-construction metro system for the city of Kochi and the work is expected to be completed by 7 June 2016.

**ROUTE- ALWAYE - PETTA CORRIDOR**

1.	Route Length (between dead ends)	25.612 K.M.
2.	Route Length (between CL of Terminal Stations)	24.912 K.M.
3.	Number of Stations	23 K.M.

**STATIONS**

1.	Aluva	2.	Pulinchodu	3.	Companypady
4.	Ambattukavu	5.	Muttom	6.	Kalamassery
7.	Cochin University	8.	Pathadipalam	9.	Edapally
10.	Changampuzha Park	11.	Palarivattom	12.	JLN Stadium
13.	Kaloor	14.	Lissie	15.	M.G Road
16.	Maharaja’s College	17.	Ernakulam south	18.	Kadavanthra
19.	Elamkulam	20.	Vytilla	21.	Thaikoodam
22.	Petta				

**TRACTION POWER SUPPLY**

1.	Voltage 25 Kv AC
2.	Power Supply source 110 Kv AC
3.	No of receiving sub stations 2
4.	SCADA system Provided

**SIGNALING, TELECOMMUNICATION & TRAIN CONTROL**

1.	Type of Signaling	Cab Signalling and continuous Automatic Train Control with automatic Train Protection (ATP)
2.	Telecommunication	Integrated System with Fibre Optic cable, SCADA, Train Radio, PA system etc.

**CONSTRUCTION METHODOLOGY**

levated viaduct carried over pre stressed concrete ‘U’ shaped/Box Girders with pile / Open foundations

**CAPACITY**

DMC (Driving Motor Car)	191 passengers (Sitting-35, Crush Standing-156)
TC (Trailer Car)	218 passengers (Sitting-44, Crush Standing-174)
3 Car Train	600 Passengers (Sitting-114, Crush Standing-486)

**ANNEXURE 14 (A)**

**DDMA-CONTACT DETAILS OF MEMBERS**

Important phone numbers function	Nodal Agency/Team Leader	Phone no.
<b>Incident Commander</b>	District Collector, Ernakulam	0484-2423001 9447729012
<b>Chief Executive Officer</b>	Additional District Magistrate, Ernakulam	9446463720
<b>Members</b>	Superintend of Police, Ernakulam Rural, Aluva	9497996979
	District Medical Officer	9946105483
	Divisional Fire & Rescue Officer	0484-2206131 9447794733
	Joint Director, Factories & Boilers, Ernakulam	9447057667
	District Food Inspector, Ernakulam	0484-2784807 9447193041 8943346187

**ANNEXURE 14 (B)**

**BSNL MOBILE NUMBERS OF OFFICERS OF REVENUE DEPARTMENT  
IN ERNAKULAM DISTRICT**

Sl.No.	Designation	Mobile Number
1.	<b>District Collector</b>	<b>9447729012</b>
2.	Additional District Magistrate	8547610072
3.	Revenue Divisional Officer, Fort Kochi	9446545340
4.	Revenue Divisional Officer, Muvattupuzha	9447089371
5.	Deputy Collector (vigilance-Central)	8547616071
6.	Deputy Collector (L.A)	8547610073
7.	Deputy Collector (RR)	8547610074
8.	Deputy Collector (Election)	854761075
9.	Deputy Collector (Disaster Management)	8547610077
10.	Deputy Collector (Liaison Officer)	8547610078
11.	Finance Officer	8547610080

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

12.	Huzur Sheristadar	8547610079
13.	<b>Tahsildar, Kothamangalam</b>	9447096371
14.	Additional Tahsildar, Kothamangalam	8547613401
15.	Village Officer, Kothamangalam	8547613402
16.	Village officer, Eramalloor	8547613403
17.	Village officer, Keerampara	8547613404
18.	Village officer, Pindimana	8547613405
19.	Village officer, Kottappdy	8547613406
20.	Village officer, Thrikkariyoor	8547613407
21.	Village officer, Kuttanpuzha	8547613408
22.	Village officer, Neryamangalam	8547613409
23.	Village officer, Varappetty	8547613411
24.	Village officer, Kuttamangalam	8547613410
25.	Village officer, Kadavoor	8547613412
26.	Village officer, Pothanikkadu	8547613413
27.	<b>Tahsildar, Muvattupuzha</b>	
28.	Additional Tahsildar, Muvattupuzha	8547613501
29.	Village officer, Muvattupuzha	8547613506
30.	Village Officer, Marady	8547613502
31.	Village Officer, Velloorkunnam	8547613503
32.	Village officer, Valakom	8547613504
33.	Village officer, Mulavoor	8547613505
34.	Village officer, Enanalloor	8547613507
35.	Village officer, Kalloorkkadu	8547613508
36.	Village officer, Manjalloor	8547613509
37.	Village officer, Ramamangalam	8547613510
38.	Village officer, Piravom	8547613511
39.	Village officer, Onakkaoor	8547613512
40.	Village officer, Memmury	8547613513
41.	Village officer, Maneed	8547613514
42.	Village officer, Thirumarady	8547613515
43.	Village officer, Koothattukulam	8547613516
44.	Village officer, Arakkuzha	8547613517
45.	Village officer, Elanji	8547613518
46.	Village officer, Palakkuzha	8547613519
47.	<b>Tahsildar, Kunnathunadu</b>	9447078371
48.	Additional Tahsildar	8547613601
49.	Village officer, Perumbavoor	8547613602
50.	Village officer, Koovapady	8547613603
51.	Village officer, Vengoor	8547613604
52.	Village officer, Vengoor West	8547613605
53.	Village officer, Chelamattom	8547613606
54.	Village officer, Kodanad	8547613607

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

55.	Village officer, Kombanad	8547613608
56.	Village officer, Asamannoor	8547613609
57.	Village officer, Rayamangalam	8547613610
58.	Village officer, Vengola	8547613611
59.	Village officer, Vazhakkunam	8547613612
60.	Village officer, Arackappady	8547613613
61.	Village officer, Manambilly	8547613614
62.	Village officer, Muzhuvannur South	8547613615
63.	Village officer, Vadavucode	8547613616
64.	Village officer, Aikaranad North	8547613617
65.	Village officer, Aikaranad South	8547613618
66.	Village officer, Airapuram	8547613619
67.	Village officer, Kunnathunadu	8547613620
68.	Village officer, Thiruvaniyoor	8547613622
69.	Village officer, Kizhakkambalam	8547613621
70.	Village officer, Puthenkurez	8547613623
71.	Village officer, Pattimattom	8547613624
72.	<b>Tahsildar, Aluva</b>	9446508052
73.	Additional tahsildar Aluva	8547613701
74.	Village officer, Aluva East	8547613702
75.	Village officer, Aluva west	8547613703
76.	Village officer, Chowara	8547613704
77.	Village officer, Thekkumhagam/ Chengamanadu	8547613705
78.	Village officer, Nedumbassery	8547613706
79.	Village officer, Angamaly	8547613707
80.	Village officer, Karukutty	8547613708
81.	Village officer, Parakkadavu	8547613709
82.	Village officer, manjappa	8547613710
83.	Village officer, Malayattoor	8547613711
84.	Village officer, Kalady	8547613712
85.	Village officer, Thuravoor	8547613713
86.	Village officer, Mookkannoor	8547613714
87.	Village officer, Ayyampuzha	8547613715
88.	Village officer, Mattoor	8547613716
89.	Village officer, Vadakkumbhagam	8547613717
90.	<b>Tahsildar Kanayannoor</b>	9447048371
91.	Additional Tahsildar	8547613801
92.	Village officer, Ernakulam	8547613802
93.	Village officer, Elamkulam	8547613803
94.	Village officer, Poonithura	8547613804
95.	Village officer, Edappalli North	8547613805
96.	Village officer, Edappalli South	8547613806

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

97.	Village officer,Kadamakkudi	8547613807
98.	Village officer,Mulavukadu	8547613808
99.	Village officer,Cheranalloor	8547613809
100.	Village officer,Amballoor/Keechery	8547613810
101.	Village officer,Nadama,Thekkumbhagam	8547613811
102.	Village officer,Manakkunnam	8547613812
103.	Village officer,Kumbalam	8547613813
104.	Village officer,mulathuruthy	8547613814
105.	Village officer,Thiruvamkulam	8547613815
106.	Village officer,Kanayannoor	8547613816
107.	Village officer,Kurikkadu	8547613817
108.	Village officer,Maradu	8547613818
109.	Village officer,Vazhakkala	8547613819
110.	Village officer,Trikkakkara North	8547613820
111.	Village officer,Edakkaduvayal	8547613821
112.	Village officer,kakkanadu	8547613822
113.	<b>Tahsildar,Kochi</b>	9447068371
114.	Additional Tahsildar Kochi	8547613901
115.	Village officer,Fort Kochi	8547613902
116.	Village officer,Mattancheri	8547613903
117.	Village officer,Rameswaram	8547613904
118.	Village officer,Palluruthy	8547613905
119.	Village officer,Kumbalangi	8547613906
120.	Village officer,Chellanam	8547613907
121.	Village officer,Thoppumpady	8547613908
122.	Village officer,edakochi	8547613909
123.	Village officer,Elamkunnappuzha	8547613910
124.	Village officer,Njarakkal	8547613911
125.	Village officer,Nayarambalam	8547613912
126.	Village officer,edavanakkadu	8547613913
127.	Village officer,Kuzhupilli	8547613914
128.	Village officer,Pallipuram	8547613915
129.	Village officer,Puthuvype	8547613916
130.	<b>Tahsildar,Paravur</b>	9447069371
131.	Additional Tahsildar,Paravur	8547614101
132.	Village officer,Paravur	8547614102
133.	Village officer,Chendamangalam	8547614103
134.	Village officer,Moothakunnam	8547614104
135.	Village officer,Varappuzha	8547614105
136.	Village officer,Vadakkekara	8547614106
137.	Village officer,kottuvally	8547614107
138.	Village officer,Ezhikkara	8547614108
139.	Village officer,Eloor	8547614109



140.	Village officer,Alangadu	8547614110
141.	Village officer,Kadungalloor	8547614111
142.	Village officer,Kunnukara	8547614112
143.	Village officer,Karumallur	8547614113
144.	Village officer,Puthenvelikkara	8547614114

**ANNEXURE 15**

**DUTIES & RESPONSIBILITIES OF CRISIS RESPONSE TEAM**

**District Collector and District Magistrate, Ernakulam**

District Collector, empowered with the magisterial powers, is designated as the Chairman of the District Disaster Management team. On receipt of any information about the occurrence of a disaster, the District Collector will pass on the information immediately to Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva for confirmation and immediate necessary action. The District Collector will subsequently inform the Revenue Divisional Officers, Fort Kochi and Muvattupuzha and rest of the District Disaster Management team members and will provide necessary instructions to combat the disaster. The action taken by the District Disaster Management team members will be analyzed during review meeting held later on the very same day. District Collector will report the description of the disaster and the action taken by the District Disaster Management team members to the Government of Kerala. Nodal officer of the District Revenue establishment will be the Deputy Collector (General) and Additional District Magistrate.

Contact numbers	0484- 2423001, 2372902, 2382445, 2422282
Mobile	94477 29012, 94464 63720

**Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva**

On receipt of the information about the occurrence of a disaster, the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva will enquire through the concerned Dy. Superintendent of Police regarding the authenticity of the information and will deploy sufficient number of Police personnel, with available equipments, at the site of disaster for rescue activities and take further necessary action, as instructed by the Chairman of the District Disaster Management team. The Nodal Officer of the Police sub division of Kochi city is the Assistant Commissioner of Police, Control Room, Kochi city and that of the Police sub division of Ernakulam Rural, Aluva is the Dy. Superintendent of Police, Special Branch, Aluva.

<b>Kochi city</b>	
Contact numbers	100, 2359200
Mobile	94472 56441
<b>Ernakulam Rural, Aluva</b>	
Contact numbers	100, 2627540

**Commandant, Coast Guard, Fort Kochi**

Commandant, Coast Guard, Fort Kochi shall provide technical advice and resources during disasters in marine environment, on receipt of information regarding such disasters from District Collector. The Nodal Officer of Coast Guard, Fort Kochi is the Commandant (JG).

Contact numbers	2218969, 2217164
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**Revenue Divisional Officers, Fort Kochi and Muvattupuzha**

On receipt of the information about the occurrence of a disaster from the District Collector, the Revenue Divisional Officers will instruct the concerned Tahsildars and Village Officers to be present at the site of disaster for co-ordinating rescue and rehabilitation activities. They will review the action taken by the subordinate officers and shall report the action taken to the District Collector. They shall also request for more assistance from rest of the District Disaster Management team members, if required, with the concurrence of the District Collector and take further necessary action, as instructed by him/ her.

<b>Contact numbers</b>	
Revenue Divisional Officer, Fort Kochi	2215340, 9446545340
Revenue Divisional Officer, Muvattupuzha	0485-2835319
<b>Tahsildars</b>	
Kanayannur	0484- 2360704, 9447048371
Kochi	0484- 2215559, 9447068371
Aluva	0484- 2624052, 9446508052
Kunnathunad	0484- 2522224, 9447078371
Paravur	0484- 2442326, 9447069371
Muvattupuzha	0485 -2832313, 9447018371
Kothamangalam	0485 -2822298, 9 447096371

**Divisional Officer, Fire & Rescue Services, Ernakulam**

On receipt of the information about the occurrence of a disaster, the Divisional Officer, Fire & Rescue Services will enquire regarding the authenticity of the information from the nearest Police station and will deploy sufficient number of Fire & Rescue Services personnel, with available specialized equipments and vehicles, at the site of disaster for rescue activities and report the action taken to the District Collector. The Nodal Officer of the Fire & Rescue services department of Ernakulam is the Asst. Divisional Officer.

Contact numbers	9497920105, 2206131, 2205550.
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**District Medical Officer (Health services), Ernakulam**

On receipt of the information about the occurrence of a disaster, the District Medical Officer (Health services) will engage sufficient number of Doctors and support staff with Ambulances and available specialized equipments and medicines at the site of disaster for rescue activities and report the action taken to the District Collector. The District Medical Officer (Health services) shall pool the resources of major hospitals of the district, in case of greater number of casualties. The Nodal Officer of the District Medical Officer (Health services), Ernakulam is the Deputy District Medical Officer.

Contact numbers	9446451045
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**Deputy Director of Panchayats, Ernakulam**

Deputy Director of Panchayats, Ernakulam shall take necessary action at the time of disaster, on receipt of instructions from the District Collector. Necessary instructions or warnings to the concerned LSG institutions within his jurisdiction shall be conveyed by him. The Nodal Officer of the Deputy Director of Panchayats, Ernakulam is the Junior Superintendent of the office of the Asst. Director of Panchayats, Ernakulam.

Contact numbers	94475 11832
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**Executive Engineer, Minor Irrigation Division, Ernakulam**

Executive Engineer, Minor Irrigation Division, Ernakulam shall provide technical advice, labourers, equipments and heavy vehicles required during the search and rescue operations at the site of disaster, on receipt of instructions from the District Collector. The Nodal Officer of the Executive Engineer, Minor Irrigation Division, Ernakulam is his Assistant Executive Engineer, Ernakulam

Contact numbers	9747204728
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**Senior Joint Director of Factories and Boilers, Ernakulam**

Senior Joint Director of Factories and Boilers, Ernakulam shall provide technical advice and pool the resources of various industries of the district to combat industrial/ chemical disasters, on receipt of information regarding such disasters and report the action taken to the District Collector. Chemical Inspector at the office of the Senior Joint Director of Factories and Boilers, Ernakulam is the Nodal officer of the Factories and Boilers Department.

Contact numbers	2422258, 94474 60163
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**Executive Engineer, Irrigation Division, Ernakulam**

Executive Engineer, Irrigation Division, Ernakulam shall provide technical advice, labourers, equipments and heavy vehicles required during the search and rescue operations at the site of disaster, on receipt of instructions from the District Collector and report the action taken to the District Collector.. The Nodal Officer of the Executive Engineer, Minor Irrigation Division, Ernakulam is the Asst. Executive Engineer, Irrigation sub division, Ernakulam.

Contact numbers	9961330767, 2422230
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**Dy. General Manager ( Fire& Safety, BPCL-KR, Ambalamugal**

Dy. General Manager ( Fire & Safety), BPCL-KR, Ambalamugal shall provide technical advice and necessary resources to combat industrial/ chemical disasters, on receipt of information regarding such disasters from the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva or Senior Joint Director of Factories and Boilers or Divisional Officer, Fire & Rescue Services. The Nodal Officer of the Dy. General Manager ( Fire & Safety), BPCL-KR, Ambalamugal is the Senior Manager ( Fire & Safety), BPCL-KR, Ambalamugal.

Contact numbers	2821921, 2821800, 9495001003
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**District Supply Officer, Ernakulam**

District Supply Officer, Ernakulam, shall provide necessary food-materials and supportive systems at the rescue and rehabilitation centres, on receipt of instructions to that effect from the District Collector or the Government of Kerala and report the action taken to the District Collector.. The Nodal officer of the District Supply Officer, Ernakulam, is the Senior Superintendent, District Supply Office, Ernakulam.

Contact numbers	9446383306
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**Chief Executive Officer, Infopark, Kakkanad.**

Chief Executive Officer, Infopark, Kakkanad shall provide technical advice and necessary resources to combat industrial/ chemical disasters, on receipt of information regarding such disasters from the District Collector or Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva or Senior Joint Director of Factories and Boilers or Divisional Officer, Fire & Rescue Services. The Nodal Officer of the Chief Executive Officer, Infopark, Kakkanad is the Asst. Manager ( Electrical), Infopark, Kakkanad.

Contact numbers	2415217, 2415231, 2415232, 9895049249
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**Executive Engineer, PWD (Roads Division), Ernakulam**

Executive Engineer, PWD (Roads Division), Ernakulam shall provide technical advice, labourers, equipments and heavy vehicles required during the search and rescue operations at the site of disaster, on receipt of instructions from the District Collector and report the action taken to the District Collector.. The Nodal Officer of the Executive Engineer, Executive Engineer, PWD (Roads Division), Ernakulam is the Asst. Executive Engineer, I&P Sub division, Kakkanad.

Contact numbers	8086395062
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**Regional Chemical Examiner, Kakkanad**

Regional Chemical Examiner, Kakkanad, will analyse solid/ liquid/gaseous poisons and explosives, on receipt of instructions from the District Collector or from the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva and submit the analysis report to the District Collector. The Nodal Officer of Regional Chemical Examiner, Kakkanad is the Joint Chemical Examiner to Govt., Regional Chemical Examiner's Laboratory, and Kakkanad.

Contact numbers	2422569
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**District Animal Husbandry Officer, Ernakulam.**

District Animal Husbandry Officer, Ernakulam shall provide technical advice, supportive systems and vehicles required during the search and rescue operations at the site of disaster, on receipt of instructions from the District Collector and report the action taken to the District Collector. Adequate facilities for the vaccination of animals to prevent the diseases shall also be taken by him. He shall also maintain a record of the animal casualties/losses during the time of

disaster, so as to provide adequate financial compensation to the owners, later. The Nodal Officer of District Animal Husbandry Officer, Ernakulam is the Chief Veterinary Officer, District Veterinary Centre, Ernakulam.

Contact numbers	2351264, 94473 14481
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### **Dy. Chief Engineer, KSEB, Ernakulam**

Dy. Chief Engineer, KSEB, Ernakulam, shall provide technical advice, labourers, equipments and vehicles required during the search and rescue operations at the site of disaster for illumination and to avoid shock hazards, on receipt of instructions from the District Collector and report the action taken to the District Collector. The Nodal Officer of Dy. Chief Engineer, KSEB, Ernakulam is the Asst. Engineer, Electrical Division, Ernakulam.

Contact numbers	2555965, 9446008367
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### **Regional Transport Officer, Ernakulam**

Regional Transport Officer, Ernakulam shall provide technical advice and vehicles required during the search and rescue operations at the site of disaster and for the evacuation of the affected from the disaster site, on receipt of instructions from the District Collector or from the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva and report the action taken to the District Collector. The Nodal Officer of Regional Transport Officer, Ernakulam is the Motor Vehicles Inspector, Regional Transport Office, Ernakulam.

Contact numbers	2422246, 8547639007
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### **Sr. Plant Manager, IOC Ltd., Udayamperoor**

Sr. Plant Manager, IOC Ltd., Udayamperoor shall provide technical advice and necessary resources to combat industrial/ chemical disasters, on receipt of information regarding such disasters from District Collector or the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva or Senior Joint Director of Factories and Boilers or Divisional Officer, Fire & Rescue Services. The Nodal Officers of IOC Ltd., Udayamperoor is the Chief Terminal Manager, IOCL, Irumpanam terminal and Sr. Plant Manager, Indane Bottling plant, Nadakkavu.

Contact numbers	2774918, 2792358, 2792458
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**Area Manager, Southern Railway, Ernakulam**

Area Manager, Southern Railway, Ernakulam shall take necessary action to transport emergency materials, medicines etc for rescue & rehabilitation processes, on receipt of information regarding such disasters from the District Collector and report the action taken to the District Collector. He shall also ensure that rail transportation is stopped at the nearest stations of the site of disaster, so as to ensure the safety of the railway passengers. The Nodal Officers of the Southern Railway, Ernakulam are Area Manager and Asst. Divisional Mechanical Engineer.

Contact numbers	23757071, 2375951
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**Government Analyst, Kakkanad**

Government Analyst, Kakkanad shall analyse the quality of the food and water at the rehabilitation centres, on receipt of instructions from the District Collector and report the action taken to the District Collector. The nodal officer of the Regional Analytical laboratory, Kakkanad is the Deputy Government Analyst.

Contact numbers	2422218, 98477 90192
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**Principal Agricultural Officer, Ernakulam**

Principal Agricultural Officer, Ernakulam shall maintain a record of the damages occurred in the agricultural sector during the time of disaster, so as to provide adequate financial compensation to the owners, later. The Nodal Officer of Principal Agricultural Office, Ernakulam is the Dy. Director (Agriculture- Water Management), Ernakulam.

Contact numbers	2422224
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**District Information Officer, Ernakulam**

District Information Officer, Ernakulam shall maintain an updated directory of District Disaster Management team members and media persons and shall pass on authentic information about the disaster to the media, on receipt of instructions from the District Collector. The Nodal Officer of District Information Officer, Ernakulam is Asst. Information Officer, Office of the Deputy Director of Information and Public Relations, Ernakulam.

Contact numbers	9496003208
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### **Executive Engineer, PWD (Buildings Division), Ernakulam**

Executive Engineer, PWD (Buildings Division), Ernakulam shall provide technical advice, labourers, equipments and heavy vehicles required during the search and rescue operations at the site of disaster, on receipt of instructions from the District Collector and report the action taken to the District Collector. The Nodal Officer of the Executive Engineer, Executive Engineer, PWD (Buildings Division), Ernakulam is the Asst. Executive Engineer, PWD Buildings Sub division, Ernakulam.

Contact numbers	98460 23588
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### **Secretary, Cochin Port Trust**

Secretary, Cochin Port Trust shall provide technical advice, equipments, vehicles and necessary resources to combat disasters, on receipt of information regarding such disasters from District Collector or the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva or the Divisional Officer, Fire & Rescue Services. The Nodal Officers of the Cochin Port Trust is the Chief Officer ( Fire/Safety/Pollution Control), Cochin Port Trust.

Contact numbers	2666555, 2666520, 94474 59275
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### **Executive Engineer, Kerala Water Authority, Ernakulam**

Executive Engineer, Kerala Water Authority, PH Division, Ernakulam shall provide technical advice, labourers, equipments, vehicles and drinking water required at the rescue/ rehabilitation centres and at the site of disaster, on receipt of instructions from the District Collector and report the action taken to the District Collector. The Nodal Officer of the Executive Engineer, Executive Engineer, Kerala Water Authority, Ernakulam is the Technical Assistant, Kerala Water Authority, PH Division, Ernakulam.

Contact numbers	2360816, 97441 73848
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### **Sr. Installation Manager, HPC Ltd., Irumpanam**

Sr. Plant Manager, HPC Ltd., Irumpanam shall provide technical advice and necessary resources to combat industrial/ chemical disasters, on receipt of information regarding such disasters from District Collector or the Dy. Commissioner of Police,

Kochi city and Superintendent of Police, Ernakulam Rural, Aluva or Senior Joint Director of Factories and Boilers or Divisional Officer, Fire & Rescue Services. The Nodal Officers of HPC Ltd., Irumpanam is the Manager- Operations and Executive Operations Officer, HPCL, Irumpanam.

Contact numbers	2292582, 2292583, 9447022582
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**Chairman, National Safety Council, Kerala Chapter, Kalamassery**

National Safety Council, Kerala Chapter, Kalamassery shall provide technical advice and necessary resources, in liaison with the industry representatives to combat industrial/ chemical disasters, on receipt of information regarding such disasters from District Collector or the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva or Senior Joint Director of Factories and Boilers or Divisional Officer, Fire & Rescue Services.

Contact numbers	2541060
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**Chief Environmental Engineer, KSPCB, Kadavanthra**

Chief Environmental Engineer, KSPCB, Kadavanthra shall provide technical advice and necessary resources to combat industrial/ chemical disasters, on receipt of information regarding such disasters from District Collector or the Dy. Commissioner of Police, Kochi city and Superintendent of Police, Ernakulam Rural, Aluva or Senior Joint Director of Factories and Boilers or Divisional Officer, Fire & Rescue Services. The Nodal Officers of KSPCB is the Asst. Environmental Engineer, KSPCB, Kadavanthra.

Contact numbers	2207783, 94472 54504
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Changes in any of the information, as indicated above, shall be brought to the notice of the District Collector and Chairman of the District Disaster Management team by the concerned department head.

The action taken by the District Disaster Management team will be reviewed in the meetings of District Disaster Management Authority, constituted as per Government Order no. G.O.(P) 303/2008/DMD and sufficient changes will be incorporated in the District Disaster Management Plan, as per the observations made during the said meetings.

**ANNEXURE 16**

**CONTACT NUMBERS OF VARIOUS LINE DEPARTMENTS IN DETAIL**

<b>Centralized Services</b>				
<b>Sl.No</b>	<b>Designation</b>	<b>Ph.No</b>	<b>Fax</b>	<b>Mobile</b>
1	Indian Army	04712352373	04712353030	
2	Indian Navy	04842872466/ 04842872268		
3	Indian Air Force	04712551361/ 04712551362	04712554908	9446551361
4	CRPF(DIG Control Room)	04712750981	04712756638	9447972100
5	Indian Coast Guard	04842218121		9447972212
6	Rapid Action Force	04832783397	9447743398	

<b>Agriculture</b>				
<b>Sl.No</b>	<b>Designation</b>	<b>Ph.No</b>	<b>Fax</b>	<b>Mobile</b>
1	Principle Agriculture Officer	0484- 2422224	2422224	
2	Dy.Director Of Agriculture	2422224		9447913239
<b>Animal Husbandry</b>				
1	District Animal Husbandry Officer	2360648		9446194096
2	Chief Veterinary Officer	2351264		9388604258

<b>BLOOD DONNOR</b>				
<b>Group</b>	<b>Name</b>	<b>Address</b>	<b>Mobile Number</b>	<b>Land Line</b>
A+ve	Ajeesh Jeevan	Poomalaparambil House,Kongarapady, P.O Vadakode, Kochi - 21	9387229853	
A+ve	Sandeep Kumar	KMM College, Thrikkakara	9746917185	
A+ve	Binson Paul	Kottanchery House,Thamarachal, Kizkkambalam P.O,Pin – 683 562	9895327084	
A+ve	Josin Joy	Pichappillil House, Kavukkad P.O, Ernakulam	9744911536	
A+ve	Soumya Liga	SIMET College of Nursing, Thripunithura	9605123812	
A+ve	Akhil K.G	Kaduvangasserry House, Edavanakad P.O, Ernakulam – 682 502	9809813402	8129822728
A+ve	Aby P.P	Pomackal House, Keezhillam P.O , Perumbavoor	9447302802	0484 2654193

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

A+ve	Baby P Prabodh	8/325, Lalathil, Edavanakad P.O, Cochin, Pin -682 502	9605895677	9656585624
A+ve	Godwin Fernandez	Eravelli House, South Moolamkuzhi, Mundamveli P.O, Kochi – 682 507	9847111050	
A+ve	Joseph C George	Coungampillil House, Kothamangalam, Pin – 686 691	9846630193	
A+ve	Manoj K Chandran	Karipurath House, Ponoth Rd, Kaloor P.O, Kochi - 682012	9847240861	0484 2341534
A+ve	T.M Nooho	Nahaz Manzil, H.No 20/1190 A, Thattaparmbu Konan road, Palluruthy, Cochin – 06	9961231736	0484 2238500

### CHEMICAL EMERGENCIES

1	Bharath Petroleum Corporation Ltd,Irumpanam	27,761,166,580,607		9446575373
2	BPCL- Kochin Refinery Ltd	28,219,212,821,800		9495001003 9495001013 9447509393
3	BSES Kerala Power Ltd, 165 MW Power, plant, Udyogamandal	30,850,503,052,007		9946682444 9388488090
4	Binani Zinc Ltd. Binanipuram, Kerala.	6622316, 2540175 / 274/276 / 277 / 278	2532134	9895590853
5	Fertilizers & chemical Tranvancore Ltd, Eloor, Udyogamandal	2553337,	2545004	9895037997
6	Fertilizers & chemical Tranvancore Ltd, Cochin Division, Ambalamedu	0484-2720901, 2720901	0484- 2720948	9446052571 9447368238
7	Fertilizers & chemical Tranvancore Ltd, Willindon island.	0484-2668165		9447475111
8	Gail Gas, Kochi	0484-2383650/2383651		
9	Hindustan Insecticide Ltd, Udyogamandal, Ernakulam	0484-2545122	2545464	9895645862
10	HHA Tank Terminal, Willingdon Island,	26,685,912,667,198		9995886291
11	HOCL,Ambalamugal	2720911		9446494837
12	Hindustan Petroleum corporation Ltd, Irumpanam	2292582,2292583, 2775406	27282699	9446064303 9995820570
13	Hindustan Petroleum corporation Ltd, LPG Plant, Irumpanam	2775407		9946669572
14	Indian Oil Corporation Ltd, Kochi Terminal	2774312	2784224	9447498272

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

	Indian Oil Corporation Kochi Area office, Panampilli Nagar	084 2311558	2315935	
15	Indian Rare Earth Ltd,Udyogamandal	2545113		9946044899
16	Konkkan storage, Matsyapuri, Kochi			9995449226
17	LNG Petronet, Kochi, Puthuvypu,	0484 - 2502259/60	2502264	9745351100
18	Merchem Ltd.,Muthinagam Road, Eloor North, Udyogamandal	0484-4089300	0484-4089310	9946726330
19	Travancore Cochin Chemicals	2545011		7736045054
20	Bhramapuram waste plant			9995345264

### Central Industrial Security Force(CISF)

Sl.No	Designation	Contact No.
1	Asst. Commandent	2822235
2	Control Room	2774258

### Coast Guard

1	District Commander	2218969	2217164	9447972212
2	The Flag Officer, Commanding in Chief, Southern			

### Civil Supplies

1	District Supply Officer	2423359	2423359	9446383306
2	City Rationing Officer	2390809		9497025043

### Education

1	Dy. Director Of Education	2422227/2422210		9446462120
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### Electricity Board

1	Chief Engineer, Kalamassery	2555965	2543850	9446008202
2	Dy. Chief Engineer(Trans), Kalamassery	2555682		9446008367
3	Chief Engineer(Distribution),Kochi	2366311		9446008201
4	Dy. Chief Engineer(Electrical), power House,Ernakulam	2392868		9446008288
5	Asst.Exe.Engineer (Control Room), Ernakulam	2392358		9496008861 9447407994 9496008864

<b>Electrical Sections</b>		
1	Arakunnam	2749300
2	Central	2392248
3	Chottanikkara	2711029
4	Edapally	2344566
5	Eloor	2545179
6	Fort Kochi	2217298
7	Girinagar	2312316
8	Kalamassery	2555956
9	Kaloor	2341923
10	Kannamaly	2247375
11	Kolenchery	2760399
12	Kumbalangi	2248899
13	Maradu	2705768
14	Mattanchery	2227070
15	Mulanthuruthy	2740314
16	Njarakkal	2492310
17	Palarivattom	2344242
18	Palluruthy	2232110
19	Thevakkal	2410868
20	Thevara	2663183
21	Thoppupady	2231414
22	Trikkakara	2422214
23	Tripunuthara	2781227
24	Udayamperoor	2792059
25	Vaduthala	2391898
26	Vypin	2492386
27	Vyttila	2304785
28	Puthencruz	2730060
29	Vellaurkunnam	0485-2812533
30	Muvattupuzha	0485-2832338
31	Kothamangalam	0485-2822313
32	Keerampara	0485-2572533
33	Pothanikkadu	0485-2562033
34	Kalloorkadu	0485-2289223
35	Koothattukulam	0485-2252099
36	Piravom	0485-2242350
37	Pampakuda	0485-2273177
38	Valayanchirangara	2657435
39	N.Paravur	2442322
40	Cherai	2488110
41	Vadakkekara	2447949
42	Chendamangalam	2518446
43	Moothukunnam	2483119

<b>KSEB-DAM</b>			
1	Executive Engineer, Idamalayar(Control Room)	0485-2583201	9446008442
2	Load Despatch Division Kalamasery		

<b>ELECTRICAL INSPECTORATE</b>			
1	Dy.Chief Electrical Inspector, Vytilla	2307309	9495769898

<b>Electronic Media</b>				
1	Asianet Cable Vision	3239291		9847040434
2	All India Radio	2577716	2577716	9447127819
3	Amrita TV	2320080	2320080	
4	Asianet News	2290167		9847237678
5	Asianet	3267420/3267421	3012801	
6	Doordarshan	2730279/2350279		
7	Indiavision	2338350	2345890	9446027278
8	Jaihind	2392661		
9	Jeevan TV	2347671		
10	Kairali TV	2807435		
11	Manorama News	4447270		9895701668
12	Surya	2397977		9895713780

<b>Factories &amp; Boilers Department</b>				
1	Joint Director	0484-2422258	2425801	9447057667
2	Chemical Inspector	9447460163		

<b>FISHERIES</b>			
1	Joint Director of Fisheries	2397371	9447103237
2	Dy. Director of Fisheries	2394476	9446232691
3	Fisheries Station Vypin, CI	2502768	

<b>FOREST OFFICE</b>			
1	DFO	0484-2331448	
2	Divisional Forest Officer, Flying Squad Ernakulam		9447373749
3	Assistant conservator Forest	0484-2344761	944797914
4	DFO, Malayattor	2649052	9447979053

<b>Other Government Hospital (PHC,GH,CHC)</b>		
1	Ankamaly	2455950
2	Chengamanad	2475344
3	Cheranallor	2431605
4	Ehikkara	2508258
5	Kalady	2460163, 2455797
6	Kumbalangi	0485-282
7	Keechery	2746064
8	Malayidamthuruth	2680499
9	Malipura	2492656
10	Nettor	2700010
12	Pambakkuda	0485-2272300
13	Pallarimangalam	0485-2564747
14	Pandappally	0485-2255451
15	Pizhala	2430894
16	Vaduvaode	2730251
17	Varapetty	0485-2284217
18	Varappuzha	2512520
19	Vengoor	2645150
20	Piravom	0485-2243923
21	Vengola	2590001
22	Ayyampilly	2488396
23	Fisheries Hospital	2263430
24	Kadayiripu	2761537
25	Karuvelippady	2224561
26	Konammavu	2513587
27	Koothattukulam	0485-2253089
28	Moothakunnam	2483055
29	Mulanthuruthy	2740239
30	Munambam	2488830
31	Njarakkal	2494154
32	Palluruthy	2235780
33	Puthenvelikkara	2487259
34	Edapally	2343909
35	Poothotta	2793019
36	RVPD Trippunuthura	2784845

<b>GROUND WATER</b>			
1	District Officer	2426331	9847435149

<b>FOOD SAFETY CIRCLE</b>		
1	Edappally Circle Sri.Jacob Thomas	9447472974
2	Cochin Circle Beena.V.K	9447842287
3	Perumbavoor Circle, C.U.Abdul Jelil	9495226610
4	Ankamaly Circle, A.B.Alikunju	9447711048
5	Muvattupuzha Circle	9447231683

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

6	Cochin Corporation	9387216057
		9496322561
7	North Parur Municipality	9847604915
8	Thripunithura Municipality	9495147233
9	Muvattupuzha Municipality	9446332387
10	Aluva Municipality	9447906820
11	Kalamassery Municipality	9447906820
12	Kothamangalam Municipality	9447206491
13	Perumbavoor Municipality	9447206491
14	Ankamaly Municipality	9447387350
15	Mobile Vigilance Squad	9447668495
		9447331523

<b>MOTOR VEHICLE DEPARTMENT</b>			
1	Dy. Transport Commissioner, Kunnupuram, Kakkanad	2423030	
2	Regional Transport Officer, Kakkanad	2422246	8547639007
3	Joint R.T.O, Ernakulam	2422246	
4	Joint R.T.O, North Fort, Tripunithura	2774166	
5	Joint R.T.O, Civil Station, Aluva	2622006	
6	Joint R.T.O, Mattancherry	2229200	
7	Joint R.T.O, N.Paravur	2442522	
8	Regional Transport Officer, Muvattupuzha	0485-2814959	
9	Joint R.T.O, Perumbavoor	2525573	
10	Joint R.T.O, Kothamangalam	0485-2826826	

<b>INFORMATION &amp; PUBLIC RELATIONS</b>				
1	Reg. Dy. Director	2422379		
2	District Information Officer	2354208	2354208	9496003208
3	Asst. Information Officer	2422379		

<b>IRRIGATION</b>			
1	Executive Engineer, Major	2422230	9447404659
2	Executive Engineer, Minor Irrigation	0484-2422255	9447459754
3	A.Exe.EMI Sub Division, Aluva	0484-2604189	9847651108
4	A.Exe.EMI Sub Division, Mulanthuruthy	0484-2532266	9447327041
5	Exe.Engineer, MVIP, Kothattukulam	0485-2252149	
6	Exe.Engineer, MVIP, Muvattupuzha	0485-2834856	
7	A.Exe.EMI Sub Division, Muvattupuzha	0485-2811681	9946771389
8	A.Exe.EMI Sub Division, Ernakulam	0484-2423954	9747204728
9	Exe.Engineer, PVIP, Perumbavoor	2523234	9995880262
10	Exe.Engineer, PVIP, Aluva	2603972	9995880262
11	Exe.Engineer, IIP, Angamaly	2452525	
12	Exe.Engineer, MVIP, Thodupuzha	0486-2222357	
13	Exe.Engineer, MVIP	0485-2242593	



## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

NAVAL PHYSICAL AND OCEANOGRAPHIC LABORATORY (NPOL)				
1	Director	0484 2571000 2571412	0484-2424858	director@npol.drdo.in
2	David	9388664224		

PWD(Roads & Bridges)		
Sl.No.	Designation	Contact No.
1	Chief Engineer PWD R & B Central Circle, Aluva	2624008
2	Executive Engineer, Roads & Bridges, Kakkanad, Ernakulam	2425353
3	Executive Engineer PWD Roads Division, Muvattupuzha	0485-2832315

PWD (NH DIVISION)			
1	Chief Engineer NH Central circle, vytila	2304434	
2	Executive Engineer, Muvattupuzha	0485-2835207	8086395062
3	Executive Engineer, Kodungallur	0480-2803291	

PWD REST HOUSE		
1	Angamaly	2452490
2	Ernakulam	2361265
3	Fort Kochi	2215797
4	Kothamangalam	4852822744
5	Muvatupuzha	4852852210
6	N.Paravoor	2442495
7	Perumbavoor	2523127/2594839

Shipyard			
1	Dy. General Manager	2361181	9895172273

Road Transportation		
1	District Transport Officer, K.S.R.T.C Station, Ernakulam	2360531
2	Aluva, K.S.R.T.C Station	2624242
3	Angamaly, K.S.R.T.C Station	2372033
3	Kothamangalam, K.S.R.T.C Station	2822202
4	Muvattupuzha, K.S.R.T.C Station	2832321
5	Perumbavoor, K.S.R.T.C Station	2523416, 2442373

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

Water Authority				
1	Chief Engineer	2361653		
2	KWA, Ernakulam Circle	2360645		
3	Control Room, Kochi	155313		
4	Executive Engineer, Aluva	2626948	2627877	
5	Executive Engineer, Perumbavoor	2522189		8547638074
6	Executive Engineer, Muvattupuzha	0485-2832350		8547638435
7	Asst. Engineer, PH Division, Aluva	2623206		
8	Asst. Engineer, PH Division, Angamali	2452725		8547638165
9	Asst. Engineer, PH Division, Muvattupuzha	0485 2832252		
10	Asst. Engineer, PH Division, N.Paravur			8547638152
11	Asst. Engineer, PH Division, Kothamangalam	0485 2862523		
12	Asst. Engineer, PH Division –II, Vadakkekara			8547638158
13	Asst. Engineer, Water Works Division-II, Kochi	2372830		
14	Executive Engineer, Water Supply Division, Kochi	2394155		
15	Asst. Engineer, PH, Kothamangalam	0485 2862523		
16	KWA kochi 16	0484 2360816		

### ANNEXURE 17

#### ADMINISTRATIVE SUBDIVISIONS OF THE DISTRICT

Number Code	Village	Taluk	District
1	Ayyampuzha	Aluva	Ernakulam
2	Karukatly	Aluva	Ernakulam
3	Mukkannur	Aluva	Ernakulam
4	Manjapra	Aluva	Ernakulam
5	Parakkadavu	Aluva	Ernakulam
6	Angamali	Aluva	Ernakulam
7	Malayatur	Aluva	Ernakulam
8	Thuravoor	Aluva	Ernakulam
9	Mattoor	Aluva	Ernakulam
10	Kalady	Aluva	Ernakulam
11	Nodumpasserri	Aluva	Ernakulam
12	Vadakkumbhagom	Aluva	Ernakulam
13	Chengamanad	Aluva	Ernakulam
14	Chowwara	Aluva	Ernakulam
15	Aluva East	Aluva	Ernakulam
16	Kizhakkumbhagom	Aluva	Ernakulam
17	Thekkumbhagom	Aluva	Ernakulam

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

18	Aluva West	Aluva	Ernakulam
19	Thikkakkara North	Kanayannur	Ernakulam
20	Cheranalloor	Kanayannur	Ernakulam
21	Kadamakudy	Kanayannur	Ernakulam
22	Edapally North	Kanayannur	Ernakulam
23	Vazhakkala	Kanayannur	Ernakulam
24	Mulavucad	Kanayannur	Ernakulam
25	Kakkanad	Kanayannur	Ernakulam
26	Eduppally South	Kanayannur	Ernakulam
27	Ernakulom	Kanayannur	Ernakulam
28	Elankulom	Kanayannur	Ernakulam
29	Poonithura	Kanayannur	Ernakulam
30	Thiruvenkulom	Kanayannur	Ernakulam
31	Nadamel	Kanayannur	Ernakulam
32	Maradu	Kanayannur	Ernakulam
33	Thekkunobhagom	Kanayannur	Ernakulam
34	Kureekad	Kanayannur	Ernakulam
35	Kanayannur	Kanayannur	Ernakulam
36	Manakunnam	Kanayannur	Ernakulam
37	Kumbalam	Kanayannur	Ernakulam
38	Mulanthuruthy	Kanayannur	Ernakulam
39	Edakkattuvayal	Kanayannur	Ernakulam
40	Amballur	Kanayannur	Ernakulam
41	Kaipattur	Kanayannur	Ernakulam
42	Kulayettikara	Kanayannur	Ernakulam
43	Keecherry	Kanayannur	Ernakulam
44	Kuzhupilly	Kochi	Ernakulam
45	Pallipuram	Kochi	Ernakulam
46	Kuzhupilly	Kochi	Ernakulam
47	Edavanakad	Kochi	Ernakulam
48	Nayarambalam	Kochi	Ernakulam
49	Narakkal	Kochi	Ernakulam
50	Elankunnapusha	Kochi	Ernakulam
51	Puthuvyip	Kochi	Ernakulam
52	Fortkochi	Kochi	Ernakulam
53	Mattancherry	Kochi	Ernakulam
54	Thoppumpady	Kochi	Ernakulam
55	Ramaswaram	Kochi	Ernakulam
56	Edakochi	Kochi	Ernakulam
57	Pallurudhy	Kochi	Ernakulam
58	Kumbalanghy	Kochi	Ernakulam
59	Challanam	Kochi	Ernakulam
60	Kuttunpuzha	Kothimangalam	Ernakulam

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

61	Pindimana	Kothimangalam	Ernakulam
62	Kottapadi	Kothimangalam	Ernakulam
63	Kurempara	Kothimangalam	Ernakulam
64	Trikariyoor	Kothimangalam	Ernakulam
65	Neriyamangalam	Kothimangalam	Ernakulam
66	Kothamangalam	Kothimangalam	Ernakulam
67	Kuttamangalam	Kothimangalam	Ernakulam
68	Iramalloor	Kothimangalam	Ernakulam
69	Varapetty	Kothimangalam	Ernakulam
70	POthanikadu	Kothimangalam	Ernakulam
71	Kadavoor	Kothimangalam	Ernakulam
72	Kombarad	Kunnathunael	Ernakulam
73	Kodanad	Kunnathunael	Ernakulam
74	Koovappady	Kunnathunael	Ernakulam
75	Vengoor West	Kunnathunael	Ernakulam
76	Vengoor	Kunnathunael	Ernakulam
77	Chelamattam	Kunnathunael	Ernakulam
78	Perumbaroor	Kunnathunael	Ernakulam
79	Asamannoor	Kunnathunael	Ernakulam
80	Marampilly	Kunnathunael	Ernakulam
81	Rayamangolam	Kunnathunael	Ernakulam
82	Vengola	Kunnathunael	Ernakulam
83	Vazhakkulam	Kunnathunael	Ernakulam
84	Arakkapady	Kunnathunael	Ernakulam
85	Kizhakkomsalam	Kunnathunael	Ernakulam
86	Pattimattom	Kunnathunael	Ernakulam
87	Irapuram	Kunnathunael	Ernakulam
88	Mazhuvannoor	Kunnathunael	Ernakulam
89	Kunnathinad	Kunnathunael	Ernakulam
90	Aikaramad NOrth	Kunnathunael	Ernakulam
91	Puthiocruz	Kunnathunael	Ernakulam
92	Vadavcode	Kunnathunael	Ernakulam
93	Aikaranad SOutH	Kunnathunael	Ernakulam
94	Thiruvaniyoor	Kunnathunael	Ernakulam
95	Mulavur	Muvattupuzha	Ernakulam
96	Enalallur	Muvattupuzha	Ernakulam
97	Velloorkunnam	Muvattupuzha	Ernakulam
98	Valakom	Muvattupuzha	Ernakulam
99	Muvattupazha	Muvattupuzha	Ernakulam
100	Kalloorkad	Muvattupuzha	Ernakulam
101	Marady	Muvattupuzha	Ernakulam
102	Menuri	Muvattupuzha	Ernakulam
103	Manjalloor	Muvattupuzha	Ernakulam

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

104	Arakuzha	Muvattupuzha	Ernakulam
105	Ramamangalam	Muvattupuzha	Ernakulam
106	Maneed	Muvattupuzha	Ernakulam
107	Onakkur	Muvattupuzha	Ernakulam
108	Thirumarady	Muvattupuzha	Ernakulam
109	Palakuzha	Muvattupuzha	Ernakulam
110	Piravam	Muvattupuzha	Ernakulam
111	Koothattukulam	Muvattupuzha	Ernakulam
112	Elanji	Muvattupuzha	Ernakulam
113	Puthesvelikara	Paravur	Ernakulam
114	Chennamalgalom	Paravur	Ernakulam
115	Moothakunnam	Paravur	Ernakulam
116	Kannukara	Paravur	Ernakulam
117	Vadekkekara	Paravur	Ernakulam
118	Paravur	Paravur	Ernakulam
119	Karumattur	Paravur	Ernakulam
120	Kottuvally	Paravur	Ernakulam
121	Alengad	Paravur	Ernakulam
122	Ezhikara	Paravur	Ernakulam
123	Kadungallor	Paravur	Ernakulam
124	Varapuzha	Paravur	Ernakulam
125	Eloor	Paravur	Ernakulam

### ANNEXURE 18

#### LIST OF FACTORIES

Sl. No.	Name of Factories (Major Accident Hazard Installation)
1	Tata Ceramics Ltd., CSEZ Kochi-37
2	Binani Zinc Ltd, Binanipuram, Aluva.
3	FACT RCF Building Products Ltd., Ambalamedu., Ernakulam.
4	Bharath Petroleum Corporation Ltd,Kochi Refinery, Ambalamugal
5	Travancore Cochin Chemicals Ltd., Udyogamandal
6	Bharath Petroleum Corporation Ltd, LPG Bottling Plant, Ambalamugal
7	Konkan Storage System, Willington Island, Cochin
8	BPCL Crude Storage , Puthuvypin
9	FACT Cochin Division, Ambalamedu
10	Ganesh Benzoplast, Willington Island
11	Indane Bottling Plant, Indian Oil Corporation Ltd., Nadakkavu P.O, Udayamperoor, Cochin-682307
12	BPCL Irimpanam Installation Irimpanam,Ernakulam.
13	FACT Udyogamandal Complex, Udyogamandal P O,Cochin-683501

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

14	Hindustan Insecticides Ltd. Udyogamandal
15	IOC Kochi Marketing Division Irimpanam
16	HHA Tank Terminal, Willington Island
17	FACT Ltd. Ammonia Storage, Willington Island
18	Hindusthan Petroleum Corporation Ltd., Irimpanam-682309
19	PETRONET LNG LTD. Puthuvypeen Ernakulam.
20	Hindusthan Organic Chemicals Ltd. Ambalamugal
21	IOC , P.B.No.535, Indhira Gandhi Road Willington Island
22	BSES Kerala power Ltd., Udyogamandal
23	Hindusthan Petroleum Corporation Ltd.,LPG ?Bottling Plant, Irimpanam.

### ANNEXURE 19

#### DATABASE OF OCCURRENCE OF LIGHTNING IN THE DISTRICT

Sl.No.	Village	Taluk	Year
1	Eramalloor	Kothamangalam	2014
2	Pindimana	Kothamangalam	2014
3	Pindimana	Kothamangalam	2014
4	Pindimana	Kothamangalam	2014
5	Pindimana	Kothamangalam	2014
6	Arakkapadi	Kunnathunad	2014
7	Arakkapadi	Kunnathunad	2014
8	Asamannoor	Kunnathunad	2014
9	Asamannoor	Kunnathunad	2014
10	Ezhikkara	N .Paravur	2014
11	Nattur (Near Maradu)	Kanayannur	2003
12	Mukkanur,Angamali	Aluva	2001
13	Aluva West	Aluva	2000
14	Kodikuthumala.	Aluva	2000
15	Kudukuthi Mala	Aluva	2000
16	Mookkannoor	Aluva	2000
17	Mookkannoor	Aluva	2000
18	Kanayannoor	Kanayannur	2000
19	Eramalloor	Kothamangalam	2000
20	Kuttamangalam	Kothamangalam	2000
21	Kuttampuzha	Kothamangalam	2000
22	Pindimana	Kothamangalam	2000
23	Pindimana	Kothamangalam	2000
24	Trikkariyoor	Kothamangalam	2000
25	Mazhuvannoor	Kunnathunad	2000
26	Arakuzha,Aaruir	Muvattupuzha	2000

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

27	Ramamangalam	Muvattupuzha	2000
28	Moothakunnam	N .Paravur	2000
29	Kadavoor	Kothamangalam	1999
30	Kuttamangalam	Kothamangalam	1999
31	Kuttamangalam	Kothamangalam	1999
32	Trikkariyoor	Kothamangalam	1999
33	Trikkariyoor	Kothamangalam	1999
34	Trikkariyoor	Kothamangalam	1999
35	Granite Company	Muvattupuzha	1999
36	Kallookad	Muvattupuzha	1999
37	Muvattupuzha	Muvattupuzha	1999
38	Muvattupuzha	Muvattupuzha	1999
39	Muvattupuzha(Grnate Comp)	Muvattupuzha	1999
40	Ezhikkara	N .Paravur	1999
41	East Kallor, Kothamangalam	Kothamangalam	1998
42	Kadavoor	Kothamangalam	1998
43	Kuttamangalam	Kothamangalam	1998
44	Kuttamangalam	Kothamangalam	1998
45	Kuttamangalam	Kothamangalam	1998
46	Nellikuzhi	Kothamangalam	1998
47	Nellikuzhi	Kothamangalam	1998
48	Nellikuzhi, Kotamangalam	Kothamangalam	1998
49	Trikkariyoor	Kothamangalam	1998
50	Trikkariyoor	Kothamangalam	1998
51	Unukal.	Kothamangalam	1998
52	Piravam, North Mazhuvannur.	Kunnathunad	1998
53	Kuttattukulam, Palakuzha.	Muvattupuzha	1998
54	Muvattupuzha	Muvattupuzha	1998
55	Piravam, Ramamangalam.	Muvattupuzha	1998
56	Aluva	Aluva	1997
57	Nedumbacherry (vallakad col:)	Aluva	1997
58	Arayankavu, Olipuram.	Kanayannur	1997
59	Kaippattoor	Kanayannur	1997
60	Tripunithura	Kanayannur	1997
61	Tripunittura	Kanayannur	1997
62	Kothamangalam	Kothamangalam	1997
63	Kuttampuzha	Kothamangalam	1997
64	Mathirapalli	Kothamangalam	1997
65	Nellimatam(kannadikode)	Kothamangalam	1997
66	Kallookad	Muvattupuzha	1997
67	Kuttattukulam(Mutholapuram)	Muvattupuzha	1997
68	Kuttattukulam Mutholapuram	Muvattupuzha	1997
69	Ramamangalam	Muvattupuzha	1997
70	Perumpadana	N .Paravur	1997

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71	Mattancherry.	Ernakulam	1996
72	Thudaganad, Edappalli	Ernakulam	1996
73	Chottanekara	Kanayannur	1996
74	Kadavoor	Kothamangalam	1996
75	Perumbavur	Kunnathunad	1996
76	Perumbavoor	Mudikkal	1996
77	Kakkadacherry	Muvattupuzha	1996
78	Kunamavu, Chemayam.	N .Paravur	1996
79	Muddikal	Perumbavur	1996
80	Muddikal H S jun:	Perumbavur	1996
81	Kothamangalam	Kothamangalam	1995
82	Kuttamangalam	Kothamangalam	1995
83	Pindimana	Kothamangalam	1994
84	Vengola (Perumbavur )	Kunnathunad	1994
85	Perumppavoor	Kunnathunadu	1994
86	Vypin (Paravur )	N .Paravur	1994
87	Paravur, Valluvalli.	Aluva	1993
88	Mulanthuruthy	Kanayannur	1993
89	Pindimana	Kothamangalam	1993
90	Pindimana	Kothamangalam	1993
91	Kothamangalam	Kothamangalam	1992
92	paravur	N .Paravur	1992
93	Mattancheri, Mundamvalli.	Ernakulam	1991
94	Tripunithara, Mulakullam	Kanayannur	1991
95	Tripunittura	Kanayannur	1991
96	Vempalli.	Kunnathunad	1991
97	Kuttattukulam.	Muvattupuzha	1991
98	Kotamangalam	Kothamangalam	1990
99	Pindimana	Kothamangalam	1990
100	Pindimana	Kothamangalam	1990
101	Muvattupuzha	Meekunnam	1990
102	Meenkundam	Muvattupuzha	1990
103	S Onnakoar	Muvattupuzha	1990
104	Erumbanam	Kanayannur	1989
105	Tripunittura,Amballur	Kanayannur	1989
106	Kurukutti (Angamali)	Aluva	1988
107	Azhikkakl	Kochi	1988
108	paravur	N .Paravur	1987
109	Ramamangalam	Muvattupuzha	1985
110	Ezhikkara	N .Paravur	1975
111	Chitrapuzha, chabram.	Kanayannur	1967
112	Ponnurthi		1967



**ANNEXURE 20**

**DETAILS OF LIGHTNING FREQUENCY IN THE DISTRICT**

Sl.No	Village	Taluk	District	Frequency/year
1	Ayyampuzha	Aluva	Ernakulam	0
2	Karukatly	Aluva	Ernakulam	1
3	Kuttunpuzha	Kothimangalam	Ernakulam	1
4	Mukkannur	Aluva	Ernakulam	1
5	Manjapra	Aluva	Ernakulam	0
6	Parakkadavu	Aluva	Ernakulam	0
7	Angamali	Aluva	Ernakulam	0
8	Malayatur	Aluva	Ernakulam	0
9	Thuravoor	Aluva	Ernakulam	0
10	puthesvelikara	Paravur	Ernakulam	0
11	Mattoor	Aluva	Ernakulam	0
12	Kalady	Aluva	Ernakulam	0
13	Chennamalgalom	Paravur	Ernakulam	0
14	Kombarad	Kunnathunael	Ernakulam	1
15	Kodanad	Kunnathunael	Ernakulam	0
16	Moothakunnam	Paravur	Ernakulam	1
17	Nodumpasseri	Aluva	Ernakulam	0
18	kuzhupilly	Kochi	Ernakulam	0
19	Koovappady	Kunnathunael	Ernakulam	0
20	kannukara	Paravur	Ernakulam	0
21	Vengoor West	Kunnathunael	Ernakulam	0
22	vadekkekara	Paravur	Ernakulam	0
23	Paravur	Paravur	Ernakulam	1
24	Vengoor	Kunnathunael	Ernakulam	0
25	Chelamattam	Kunnathunael	Ernakulam	0
26	pallipuram	Kochi	Ernakulam	0
27	Vadakkumbhagom	Aluva	Ernakulam	0
28	karumattur	Paravur	Ernakulam	0
29	Pindimana	Kothimangalam	Ernakulam	1
30	Chengamanad	Aluva	Ernakulam	1
31	Chowwara	Aluva	Ernakulam	0
32	Aluva East	Aluva	Ernakulam	1
33	Kottapadi	Kothimangalam	Ernakulam	1
34	Kizhakkumbhagom	Aluva	Ernakulam	0
35	kottuvally	Paravur	Ernakulam	1
36	Kurempara	Kothimangalam	Ernakulam	0
37	Perumbaroor	Kunnathunael	Ernakulam	1
38	Thekkumbhagom	Aluva	Ernakulam	0

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39	alengad	Paravur	Ernakulam	0
40	kuzhupilly	Kochi	Ernakulam	0
41	Aluva East	Aluva	Ernakulam	1
42	Asamannoor	Kunnathunael	Ernakulam	1
43	Marampilly	Kunnathunael	Ernakulam	0
44	ezhikara	Paravur	Ernakulam	1
45	Kadungallor	Paravur	Ernakulam	0
46	Rayamangolam	Kunnathunael	Ernakulam	0
47	Vengola	Kunnathunael	Ernakulam	1
48	Trikariyoor	Kothimangalam	Ernakulam	1
49	Edavanakad	Kochi	Ernakulam	0
50	Vazhakkulom	Kunnathunael	Ernakulam	0
51	Neriyamangalam	Kothimangalam	Ernakulam	1
52	Kothamangalam	Kothimangalam	Ernakulam	1
53	varapuzha	Paravur	Ernakulam	0
54	Eloor	Paravur	Ernakulam	0
55	Kuttamangalam	Kothimangalam	Ernakulam	1
56	Arakkapady	Kunnathunael	Ernakulam	1
57	Iramalloor	Kothimangalam	Ernakulam	1
58	Nayarambalam	Kochi	Ernakulam	0
59	Kizhakkomsalam	Kunnathunael	Ernakulam	0
60	Thikkakkara North	Kanayannur	Ernakulam	0
61	Cheranalloor	Kanayannur	Ernakulam	0
62	Kadamakudy	Kanayannur	Ernakulam	0
63	Pattimattom	Kunnathunael	Ernakulam	0
64	Irapuram	Kunnathunael	Ernakulam	1
65	Narakkal	Kochi	Ernakulam	0
66	Varapetty	Kothimangalam	Ernakulam	1
67	Mulavur	Muvattupuzha	Ernakulam	0
68	Mazhuvannoor	Kunnathunael	Ernakulam	1
69	Edapally North	Kanayannur	Ernakulam	1
70	POthanikadu	Kothimangalam	Ernakulam	0
71	Vazhakkala	Kanayannur	Ernakulam	0
72	Mulavucad	Kanayannur	Ernakulam	0
73	Elankunnapusha	Kochi	Ernakulam	0
74	Kakkanad	Kanayannur	Ernakulam	0
75	Kunnathinad	Kunnathunael	Ernakulam	1
76	Eduppally South	Kanayannur	Ernakulam	1
77	Kadavoor	Kothimangalam	Ernakulam	1
78	Aikaramad NOrth	Kunnathunael	Ernakulam	0
79	Enalallur	Muvattupuzha	Ernakulam	1
80	Velloorkunnam	Muvattupuzha	Ernakulam	0
81	Ernakulom	Kanayannur	Ernakulam	0
82	Puthiocruz	Kunnathunael	Ernakulam	0

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83	Valakom	Muvattupuzha	Ernakulam	0
84	Elankulom	Kanayannur	Ernakulam	0
85	Puthuvyip	Kochi	Ernakulam	1
86	Poonithura	Kanayannur	Ernakulam	0
87	Muvattupazha	Muvattupuzha	Ernakulam	1
88	Vadavcode	Kunnathunael	Ernakulam	0
89	Thirunkenkulom	Kanayannur	Ernakulam	1
90	Nadamel	Kanayannur	Ernakulam	1
91	Aikaranad South	Kunnathunael	Ernakulam	1
92	Kalloorkad	Muvattupuzha	Ernakulam	1
93	Marady	Muvattupuzha	Ernakulam	1
94	Fortkochi	Kochi	Ernakulam	1
95	Mattancherry	Kochi	Ernakulam	0
96	Menuri	Muvattupuzha	Ernakulam	0
97	Manjalloor	Muvattupuzha	Ernakulam	0
98	Thiruvaniyoor	Kunnathunael	Ernakulam	0
99	Arakuzha	Muvattupuzha	Ernakulam	1
100	Thoppumpady	Kochi	Ernakulam	1
101	Maradu	Kanayannur	Ernakulam	1
102	Ramamangalam	Muvattupuzha	Ernakulam	1
103	Ramaswaram	Kochi	Ernakulam	0
104	Maneed	Muvattupuzha	Ernakulam	0
105	Thekkunobhagom	Kanayannur	Ernakulam	0
106	Onakkur	Muvattupuzha	Ernakulam	1
107	Kureekad	Kanayannur	Ernakulam	1
108	Thirumarady	Muvattupuzha	Ernakulam	1
109	Edakochi	Kochi	Ernakulam	0
110	Kanayannur	Kanayannur	Ernakulam	1
111	Pallurudhy	Kochi	Ernakulam	1
112	Manakunnam	Kanayannur	Ernakulam	0
113	Kumbalam	Kanayannur	Ernakulam	0
114	Mulanthuruthy	Kanayannur	Ernakulam	1
115	Palakuzha	Muvattupuzha	Ernakulam	1
116	Piravam	Muvattupuzha	Ernakulam	1
117	Kumbalanghy	Kochi	Ernakulam	0
118	Edakkattuvayal	Kanayannur	Ernakulam	0
119	Koothattukulam	Muvattupuzha	Ernakulam	1
120	Amballur	Kanayannur	Ernakulam	0
121	Elanji	Muvattupuzha	Ernakulam	1
122	Kaipattur	Kanayannur	Ernakulam	1
123	Kulayettikara	Kanayannur	Ernakulam	0
124	Keecherry	Kanayannur	Ernakulam	0
125	Challanam	Kochi	Ernakulam	0

**ANNEXURE 21**

**DROUGHT PRONE AREAS**

Village	Taluk	District	Class
Ayyampuzha	Aluva	Ernakulam	Moderate Drought
Karukatly	Aluva	Ernakulam	Moderate Drought
Mukkannur	Aluva	Ernakulam	Moderate Drought
Manjapra	Aluva	Ernakulam	Moderate Drought
Parakkadavu	Aluva	Ernakulam	Moderate Drought
Angamali	Aluva	Ernakulam	Moderate Drought
Malayatur	Aluva	Ernakulam	Moderate Drought
Thuravoor	Aluva	Ernakulam	Moderate Drought
Mattoor	Aluva	Ernakulam	Moderate Drought
Kalady	Aluva	Ernakulam	Moderate Drought
Nodumpasseri	Aluva	Ernakulam	Moderate Drought
Vadakkumbhagom	Aluva	Ernakulam	Moderate Drought
Chengamanad	Aluva	Ernakulam	Moderate Drought
Chowwara	Aluva	Ernakulam	Moderate Drought
Aluva East	Aluva	Ernakulam	Moderate Drought
Kizhakkumbhagom	Aluva	Ernakulam	Moderate Drought
Thekkumbhagom	Aluva	Ernakulam	Moderate Drought
Aluva East	Aluva	Ernakulam	Moderate Drought
Thikkakkara North	Kanayannur	Ernakulam	Moderate Drought
Cheranalloor	Kanayannur	Ernakulam	Moderate Drought
Kadamakudy	Kanayannur	Ernakulam	Moderate Drought
Edapally North	Kanayannur	Ernakulam	Moderate Drought
Vazhakkala	Kanayannur	Ernakulam	Moderate Drought
Mulavucad	Kanayannur	Ernakulam	Moderate Drought
Kakkanad	Kanayannur	Ernakulam	Moderate Drought
Eduppally South	Kanayannur	Ernakulam	Moderate Drought
Ernakulom	Kanayannur	Ernakulam	Moderate Drought
Elankulom	Kanayannur	Ernakulam	Moderate Drought
Poonithura	Kanayannur	Ernakulam	Moderate Drought
Thiruvenculom	Kanayannur	Ernakulam	Moderate Drought
Nadamel	Kanayannur	Ernakulam	Moderate Drought
Maradu	Kanayannur	Ernakulam	Moderate Drought
Thekkunobhagom	Kanayannur	Ernakulam	Moderate Drought
Kureekad	Kanayannur	Ernakulam	Moderate Drought
Kanayannur	Kanayannur	Ernakulam	Slight Drought
Manakunnam	Kanayannur	Ernakulam	Slight Drought
Kumbalam	Kanayannur	Ernakulam	Moderate Drought
Mulanthuruthy	Kanayannur	Ernakulam	Slight Drought

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Edakkattuvayal	Kanayannur	Ernakulam	No Drought
Amballur	Kanayannur	Ernakulam	Slight Drought
Kaipattur	Kanayannur	Ernakulam	No Drought
Kulayettikara	Kanayannur	Ernakulam	No Drought
Keecherry	Kanayannur	Ernakulam	Slight Drought
Kuzhupilly	Kochi	Ernakulam	Moderate Drought
Pallipuram	Kochi	Ernakulam	Moderate Drought
Kuzhupilly	Kochi	Ernakulam	Moderate Drought
Edavanakad	Kochi	Ernakulam	Moderate Drought
Nayarambalam	Kochi	Ernakulam	Moderate Drought
Narakkal	Kochi	Ernakulam	Moderate Drought
Elankunnapusha	Kochi	Ernakulam	Moderate Drought
Puthuvyip	Kochi	Ernakulam	Moderate Drought
Fortkochi	Kochi	Ernakulam	Moderate Drought
Mattancherry	Kochi	Ernakulam	Moderate Drought
Thoppumpady	Kochi	Ernakulam	Moderate Drought
Ramaswaram	Kochi	Ernakulam	Moderate Drought
Edakochi	Kochi	Ernakulam	Moderate Drought
Pallurudhy	Kochi	Ernakulam	Moderate Drought
Kumbalanghy	Kochi	Ernakulam	Moderate Drought
Challanam	Kochi	Ernakulam	Moderate Drought
Kuttunpuzha	Kothimangalam	Ernakulam	Moderate Drought
Pindimana	Kothimangalam	Ernakulam	Moderate Drought
Kottapadi	Kothimangalam	Ernakulam	Slight Drought
Kurempara	Kothimangalam	Ernakulam	Moderate Drought
Trikariyoor	Kothimangalam	Ernakulam	Slight Drought
Neriyamangalam	Kothimangalam	Ernakulam	Slight Drought
Kothamangalam	Kothimangalam	Ernakulam	Slight Drought
Kuttamangalam	Kothimangalam	Ernakulam	Slight Drought
Iramalloor	Kothimangalam	Ernakulam	Slight Drought
Varapetty	Kothimangalam	Ernakulam	Slight Drought
POthanikadu	Kothimangalam	Ernakulam	Slight Drought
Kadavoor	Kothimangalam	Ernakulam	Slight Drought
Kombarad	Kunnathunael	Ernakulam	Slight Drought
Kodanad	Kunnathunael	Ernakulam	Moderate Drought
Koovappady	Kunnathunael	Ernakulam	Moderate Drought
Vengoor West	Kunnathunael	Ernakulam	Moderate Drought
Vengoor	Kunnathunael	Ernakulam	Slight Drought
Chelamattam	Kunnathunael	Ernakulam	Moderate Drought
Perumbaroor	Kunnathunael	Ernakulam	Moderate Drought
Asamannoor	Kunnathunael	Ernakulam	Slight Drought
Marampilly	Kunnathunael	Ernakulam	Moderate Drought
Rayamangolam	Kunnathunael	Ernakulam	Slight Drought
Vengola	Kunnathunael	Ernakulam	Moderate Drought

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Vazhakkulam	Kunnathunael	Ernakulam	Moderate Drought
Arakkapady	Kunnathunael	Ernakulam	Moderate Drought
Kizhakkomsalam	Kunnathunael	Ernakulam	Moderate Drought
Pattimattom	Kunnathunael	Ernakulam	Moderate Drought
Irapuram	Kunnathunael	Ernakulam	Slight Drought
Mazhuvannoor	Kunnathunael	Ernakulam	Slight Drought
Kunnathinad	Kunnathunael	Ernakulam	Moderate Drought
Aikaramad NOorth	Kunnathunael	Ernakulam	Moderate Drought
Puthiocruz	Kunnathunael	Ernakulam	Moderate Drought
Vadavcode	Kunnathunael	Ernakulam	Moderate Drought
Aikaranad SOuth	Kunnathunael	Ernakulam	Slight Drought
Thiruvaniyoor	Kunnathunael	Ernakulam	Slight Drought
Mulavur	Muvattupuzha	Ernakulam	Slight Drought
Enalallur	Muvattupuzha	Ernakulam	No Drought
Velloorkunnam	Muvattupuzha	Ernakulam	Slight Drought
Valakom	Muvattupuzha	Ernakulam	Slight Drought
Muvattupuzha	Muvattupuzha	Ernakulam	Slight Drought
Kalloorkad	Muvattupuzha	Ernakulam	Slight Drought
Marady	Muvattupuzha	Ernakulam	Slight Drought
Menuri	Muvattupuzha	Ernakulam	No Drought
Manjalloor	Muvattupuzha	Ernakulam	No Drought
Arakuzha	Muvattupuzha	Ernakulam	Slight Drought
Ramamangalam	Muvattupuzha	Ernakulam	No Drought
Maneed	Muvattupuzha	Ernakulam	Slight Drought
Onakkur	Muvattupuzha	Ernakulam	No Drought
Thirumarady	Muvattupuzha	Ernakulam	No Drought
Palakuzha	Muvattupuzha	Ernakulam	No Drought
Piravam	Muvattupuzha	Ernakulam	No Drought
Koothattukulam	Muvattupuzha	Ernakulam	No Drought
Elanji	Muvattupuzha	Ernakulam	No Drought
pUthesvelikara	Paravur	Ernakulam	Moderate Drought
Chennamalgalom	Paravur	Ernakulam	Moderate Drought
Moothakunnam	Paravur	Ernakulam	Moderate Drought
Kannukara	Paravur	Ernakulam	Moderate Drought
Vadekkekara	Paravur	Ernakulam	Moderate Drought
Paravur	Paravur	Ernakulam	Moderate Drought
Karumattur	Paravur	Ernakulam	Moderate Drought
Kottuvally	Paravur	Ernakulam	Moderate Drought
Alengad	Paravur	Ernakulam	Moderate Drought
Ezhikara	Paravur	Ernakulam	Moderate Drought
Kadungallor	Paravur	Ernakulam	Moderate Drought
Varapuzha	Paravur	Ernakulam	Moderate Drought
Eloor	Paravur	Ernakulam	Moderate Drought

ANNEXURE 22

**SOP'S OF VARIOUS LINE DEPARTMENTS**

It is necessary that all the departments have well defined standard operating procedures and preparedness checklists.

The District magistrate must circulate the standard operating procedure among the departments, and ask for compliance of the preparedness measures in the District Disaster management authority meeting. It is absolutely important that all the departments are very familiar with the overall plan and the procedures specifically applicable to them and report diligently upon their implementation.

Standard Operating Procedures should be modified and improved upon in light of changing circumstances. The District Magistrate should encourage all the departments to suggest changes in these procedures with a view to enhance the effectiveness of the District Disaster Management Plan. The Standard Operating Procedures (SOPs) of various departments at district level and given as under:

**1.1 Standard Operating Procedures for Revenue Department:**

In-charge Officer: District Magistrate/ ADM

1. Convene the meetings of District Disaster Management Authority.
2. Update the District Disaster Management Plan Quarterly.
3. Maintain and activate the District and Sub-divisional Control Rooms.
4. Establish communications with all stakeholders for purpose of receiving and sending warning and information exchange through district control room.
5. Establish warning systems between the local to district level and with media.
6. Ensure laying down construction norms for all types of buildings and infrastructure.
7. Ensure identification of safe places for establishment of relief camps and confirming their suitability.
8. Appoint In-charge Officers of Response base
9. Ensure damage and need assessment through teams formed through concerned departments.
10. Check upon inventory of resources
11. Ensure capacity building of the community and all departmental staff.
12. Ensure to establish and manage relief camps through life line departments.
13. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
14. Check the supplied of food grains through the Public Distribution System.

15. Prepare a list of relief items to be distributed
16. Seek tenders / quotations for all the relief items and fix the rates and suppliers
17. Ensuring to create and pre-dominate teams, transport, material and equipment for responding to the disaster incident.
18. Prepare a transportation plan for supply of relief items
19. Convene meetings of NGOs, Youth Clubs, Self Help Groups, etc. in the district, and assign them specific responsibilities for relief, recovery and rehabilitation
20. Constitute / activate Village – Level Preparedness Teams with the help of PRIs, local NGOs, and revenue officials
21. Prepare an evacuation plan for the villages which devastated
22. Prepare a list of temporary shelters, and check upon their suitability for accommodating people.
23. Ensure disposal of dead bodies and carcasses through Police, Medical, NGOs, Public Health and Forest Department.
24. Ensure general cleaning of the entire city area through water and sanitation, Municipal Corporation, Public Health Department, etc.
25. Ensure collation of expense accounts for sanctions and audits.
26. Activation of help lines through police and health departments and district public relations office.
27. Ensure preparation of rehabilitation plan for displaced population through Town and Country Planning, ULBs/PRIs, etc.
28. Ensure disbursal of Compensation.
29. If any warning gets from central agencies or their advice, prepare for evacuation plan for population from dangerous place.
32. Coordinate with Army, Indian Air Force, and Navy for support towards rescue, evacuation and relief.
33. Commence functioning of IRS and ESF systems.
34. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
35. Ensure that panic does not occur.
36. Activate all emergency communications.
37. Ensure Provision of Nutritional aspects of food for disaster victims.

**Checklist:**

Sl. No	Preparedness Measures	Actions Taken/Remarks
1	Update District Disaster Management Plan, twice a year containing Phone numbers, officials, details of offices and facilities	
2	Check upon communication network; phones, wireless, fax, internet, HAM, etc.	
3	Identify by hazard, Vulnerability and risk and prepare road maps of the district	



4	Activate District and Sub divisional Control Rooms. Assign employees to the control room	
5	Fix the location of Response base	
6	Designate In-charge officials of the Response base	
7	Convene meetings of District Disaster Management Authority	
8	Convene NGOs, PRIs and ULBs meeting; Prepare a list of NGOs, and PRIs with their functional specialization and Geographical coverage	
9	Check the availability of food Grains in PDSs shops and other stockings and distributors in the district	
10	Prepare a list of Relief Items for distribution in the height of local habits, customs etc.	
11	Determine quantity, quality of relief items as per minimum standards, and expenditure to be incurred on it.	
12	Prepare a transport and alternate transport plan for evacuation and distribution of relief.	
13	Prepare a media plan for dissemination of information to the people of the district; local newspapers, radio, TV and cable, etc.	
14	Ensure appropriate stocking of relief material received from outside.	

## **1.2. Standard Operating Procedures for the Police**

In-charge Officer: Superintendent of Police

1. Identify Disaster Prone area in the district
2. Prepare a Deployment Plan for the Police force, based on the needs of the most vulnerable areas.
3. Ensure that a sufficient number of police force is available for responding to the disaster situation.
4. Within the affected sub-division, all available personnel will be made available to the Deputy Commissioner. If more personnel are required, the out of station officers or those on leave may be recalled.
5. All district level officials of the Police Department must be asked to report to the Deputy Commissioner.
6. Constitute 'Search & Rescue' Teams from the Police force, and arrange training for these units. There should be at least one Search and Rescue Team for every district. However some of the district may have more than one 'Search and Rescue Team' depending upon the area and magnitude of disaster.
7. Establish coordination with the State Armed Police and Defence and Home Guards.
8. Check the wireless communication network, and secure additional wireless sets for deployment during a disaster.
9. Installation of radio communications at
10. District Control Room, Deputy Commissioner and SP Office

11. Control room at affected site.
12. Departmental Offices within the District & Division
13. Keep the police vehicles and other modest transport in readiness for deployment of the police.
14. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
15. The SP will ensure that all field staff and stationed officers submit the necessary action reports to control room.
16. Review and update precautionary measures and procedures and review with staff the precautions that have been taken to protect equipment.
17. Provide guards wherever needed particularly for staging area of cooperative food etc stores and distribution centres.
18. Evacuation will be ordered by District Magistrate/Additional District Magistrate, and Superintendent of Police.
19. Under appropriate security, Law and Order, the evacuation of community and livestock should be undertaken with assistance from community leaders.
20. All evacuation must be reported to District Magistrate/ Deputy Commissioner and Senior Superintendent of Police immediately.
21. Dispatch Police to systematically identify and assist people and communities in life-threatening situation.
22. Designate an area, within Police Station to be used as help line centre for public.
23. With the assistance of health professional, help injured people and assist the community in organizing emergency transport of seriously injured to medical treatment centers.
24. Ensure that the police stations with staff are functioning in disaster situation.
25. Assist and encourage the community in road-cleaning operation.
26. Assess and Identify road for following conditions.
27. One Way
28. Blocked
29. Alternate route
30. Overall Traffic Management
31. Other access roads
32. Organize training and mock-drill for police officer to handle disaster/crisis situation.
33. Provide security in transit and relief camps, affected villages, hospitals, and medical centers and identify areas to be cordoned off.
34. Transport carrying transit passengers (that is, passengers travelling through trains or
35. buses and passing through the district) should be diverted away from the
36. affected area.
37. Ensure security of installations.
38. Provide security arrangements for visiting VVIPs and VIPs.
39. Assist district authorities to take necessary action against Hoarders, Black Marketers and

those found manipulating relief material.

40. In conjunction with other government offices, activate a public help- line to:
41. Respond to personal inquiries about the safety of relatives in the affected areas;
42. Respond to the many specific needs that will be given.
43. Serve as a rumor control centre.
44. Confidence building among the public.
33. Make officers available to inquire into and record deaths, as there is not likely to be time or personal available, to carry out Standard Post-mortem Procedures.
45. Monitor the needs and welfare of people sheltered in relief camps.
46. Establish coordination with the Fire Services.
47. Coordinate with military service personnel in the area.
48. Adequate Security to International Agencies/Countries personnel for Search & Rescue, Medical Assistance and Security for their relief material and equipments etc.
49. Manage Traffic/Crowd. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.

### Checklist:

Sl. No	Preparedness Measures	Action Taken / Remarks
1.	Prepare a deployment plan for police forces	
2.	Check the availability and readiness of the search and rescue teams from within the District Police	
3.	Check wireless communication network and setup links with the District Control Room and Sub-divisional Control Rooms; Make additional wireless sets available, if required	
4.	Develop a traffic plan for contingencies arising out of disasters – one way blocked ways, alternate routes and traffic diversion	
5.	Develop a patrolling plan for critical infrastructure and affected villages/locality.	
6.	Keep the vehicles and other modes of transport available with the Police in readiness	
7.	Prepare a Plan for VIP visits to disaster affected areas	
8.	Identify anti social elements that could create nuisance and take suitable preventive action.	
9.	Coordinate with International Teams and provide them with adequate security	

### 1.3. Standard Operating Procedures for Irrigation Department

In-charge Officer: Superintendent Engineer, Irrigation

1. Prepare and update the disaster risk map of the district. The map should show the vulnerability and risks of the critical infrastructure related to irrigation and also whether alternate source of water within the district.

2. Prepare a contingency plan for the maintenance and repairs of Bundhs and embankments.
3. Officials of the department at district level would be asked to report as per IRS plan.
4. All personnel required for IRS and other activities should work under the overall supervision and guidance of Deputy Commissioner.
5. Review and update precautionary measures and procedures.
6. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
7. Check the wireless network connecting flood stations and undertake necessary repairs.
8. Set up the protocol for exchange of information with Flood Control Rooms at State, National levels.
9. Set up the protocol for reporting of flood situation to the District Magistrate / District Control Room.
10. Establish radio communications with District Control Room, Department offices.
11. Identify Bundhs, which are critical for disaster protection and control.
12. Prepare a list of critical Bundhs, which need repairs and reinforcement after the last floods. Submit a list of these Bundhs to the District Magistrate and the state government, and ask for necessary financial allocation.
13. Commence repairs of critical Bundhs in the month of January every year after surveying the damages of floods/disaster last year, and ensure that all the repairs are completed in the month of May.
14. Provide special attention to those places where the Bundhs were breached and repaired during the last floods/disaster last year. These are the Bundhs, which will be threatened first, when the floods approach.
15. Undertake channel improvement for rivers and canals to the extent possible. Undertake de-silting / cleaning of channels and canals to improve the flow of water.
16. Check all the channels and regulators on the Bundhs and canals. Clean siphons before the monsoon. Increase their capacity or replace them if the size of siphons and regulators is too small to prevent water from flowing in.
17. Keep in readiness essential tool kits and protection material at critical places for emergency deployment. These may include:
  - Empty Cement Bags
  - Boulders
  - Ropes
  - Sand
  - Wire mesh
  - Shovels
  - Baskets
  - Lights
  - First Aid Kit
14. Organize round the clock inspection and repair of :

- Bunds
  - Dams
  - Irrigation channel
  - Bridges
  - Outlets
  - Control gates
  - Overflow channels
15. The emergency tool kits with each technical assistant should be checked.
  16. Organize round the clock inspection and repair of :
    - Pumps
    - Generators
    - Motor equipment
    - Station building
  17. Designate one officer posted at exposed areas as an Emergency Officer subject to the condition that he is well aware of Floods/Disaster, and its effects
  18. The inlet and outlet of lakes & reservoirs should be inspected to ensure that waterways are unobstructed by trees or vegetation
  19. Any repairs/under construction activity should be well secured with sand bags, rock falls, etc.
  20. Materials likely to be damaged by rains, such as concrete in bags, electric motors, office records, etc should be covered with plastic and well secured, even through stored inside
  21. Check all the rain-gauge stations and ensure that they are function properly. Check that the readings from these stations are available immediately to the Irrigation Department. Prescribe a register for recording of rainfall.
  22. Check all the rain-gauge stations and ensure that they are function properly. Check that the readings from these stations are available immediately to the Irrigation Department. Prescribe a register for recording of rainfall.

### **Field Office Priorities:**

Continue round the clock inspection and repair of bunds, dams, and irrigation channels bridges culverts, control gates and overflow channels etc.

Continue round the clock inspection and repair of pumps, generators, motor equipment and station buildings.

- Clearing the inlet and outlet to lake or reservoirs to ensure that waterways are unobstructed by trees or vegetation on an on-going basis.
- Information formats and monitoring checklist should be used for programme monitoring and development and for reporting to Emergency Operations Centre (EOC). This is in addition to existing reporting system in the department.

**Checklist**

Sl. No	Preparedness Measures	Action Taken / Remarks
1	Check the wireless network and ensure that all the flood stations are connected.	
2	Establish mechanisms for exchange of information with irrigation divisions at State/National levels	
3	Inspect all the Bunds, and check their height and slope	
4	Check the top of the Bunds, and if they have been cleared of encumbrances/encroachments and if they are motorable	
5	Check that all the Bunds have been repaired/reinforced, in particular those bunds which were damaged during the last floods.	
6	Check the drainage system of the Bunds and ensure that the seepage and rat holes, etc. have been closed.	
7	Check that all the materials required for protecting bunds have been stored at different places, and a list of these places has been furnished to the district administration .	
8	Check that the Junior engineers and other staff have been assigned their beats, and all the arrangements for continuous vigilance over these Bundhs have been made	
9	Check that all rain gauge stations are functional, and arrangements have been made to report the readings.	
10	Check the regulators and siphons. Check that they have been repaired and cleaned, increasing the flow of water.	
11	Check all the anti-erosion works	

**1.4. Standard Operating Procedures for Health Department**

In-charge officer: Chief Medical Officer

1. Prepare Hazard Vulnerability and Risk Map of the District.
2. Prepare a health contingency plan for the district. It should include a list of government hospitals, primary health centers and sub-centers, and medical personnel. The contingency plan should also include the details of hospitals and medical practitioners in the private sector.
3. All personnel required for management of disaster should work under the overall supervision and guidance of District magistrate/Additional. District magistrate
4. Based on HVR analyses, obtain a list of Response Base from the District magistrate's office, and assign the medical personnel to each of these Response Bases to the extent possible. Keep essential medicines and first aid facilities with each Response Base.
5. Constitute mobile response units consisting of a doctor, health workers and ANMs, and prepare a deployment plan. Each mobile health unit will cover at least one Response Base in a day.

6. Review and update precautionary measures and procedures,
7. Review with staff, the precautions that have been taken to protect equipments.
8. Determine type of injuries/illness expected and drugs and other medical items required and accordingly ensure that extra supplies of medical items are obtained quickly.
9. Provide information to all health staff about the disaster, likely damages and effects and information about way to protect life, equipment and property.
10. Non ambulatory patients should be relocated to the safest areas within the hospital. The safest rooms are likely to be:
  - On ground floor.
  - Rooms in the Centre of the building away from windows.
  - Rooms with concrete ceilings.
  - Dressing pads should be assembled sterilized.
11. A large enough number should be sterilized to last for four to five days.
12. Secure medical supplies in adequate quantity for dealing with these situations, which may include:
  - Oral Rehydration Solutions
  - Chlorine Tablets
  - Bleaching Powder
  - Anti diarrheal and Anti emetic medicines
  - Intravenous fluids
  - Suture materials
  - Surgical Dressings
  - Splints
  - Plaster Rolls
  - Disposable Needles and Syringes
  - Local Antiseptics
13. All valuable instruments such as surgical tools, ophthalmoscopes, portable sterilizers, ECG machine, dental equipments, Ultra sound machine, analyzer, invertors, computer hardware etc should be packed in protective coverings and stored in rooms considered to be the most damage proof.
14. Protect all immovable equipment such as X-ray machines, Sterilizer, Dental chair by covering them with tarpaulins or polythene.
15. Ensure adequate supplies of blood in the district through District Red cross society and other prominent agencies.
16. Keeps one operating facility in each Response Base in readiness. Maintain all the equipment necessary for operations.
17. Prepare a maternity facility for pregnant women in every Response Base/ Advance Medical Post.
18. Check stocks of equipments and drugs which are likely to be most needed in disaster management. These can be categorized generally as:

19. Drugs used in treatment of wounds and fractures such as tetanus toxoid analgesics, antibiotics, Dressing material, and Splint.
20. Drugs used for treatment of diaorrhoea, water borne diseases influenza malaria, infective hepatitis.
21. Drugs required treating snake bite and fighting infection.
22. Drugs needed for detoxication including breathing equipments.
23. Intravenous fluids.
24. Check the emergency electrical generator to ensure that it is operational and that buffer stock of fuel exists. If an emergency generator is not available at the hospital, arrange for one.
25. Request central warehouse immediately to dispatch supplies likely to be needed in hospitals, on an emergency priority basis.
26. Fill hospital water storage tanks, if no storage tanks exists; water for drinking should be drawn in clean containers and protected.
27. Prepare an area of the hospital for receiving casualties.
28. Develop emergency admission procedures.
29. Orient field staff with standards of services, procedures including tagging;
30. Hospital administration should:
31. Establish work schedules to ensure that adequate staff is available for in patients needs.
32. Organize in house emergency medical teams to ensure that adequate staff is available at all times to handle emergency causalities.
33. Set up teams of doctors, nurses and paramedical staff as per IRS.

### **Field Office Priorities:**

- Transport will be arranged for transfer of seriously injured/ill patients from villages and peripheral hospital to general hospitals. If roads are blocked helicopter should arranged by Nodal Officer.
- Establish health facilities and treatment centres at disaster affected site.
- Procedures should be clarified between Health Services of Govt., private and other established at transit camps, relief camps and affected site/villages. PHCs CHCs , Civil Hospital , Private Hospitals Blood Banks
- Maintain check posts and surveillance at each railway stations, Bus Stands depots and all entry and exit points of the affected area, especially during the threat or existence of an epidemic.
- An injury and disease monitoring system should be developed to ensure that a full picture of health risk is maintained. Monitoring should be carried out for potable water and quality of food and disposal of waste in transit and relief camps, feeding centres and affected villages.
- Plan for emergency accommodations for auxiliary staff from outside the area.
- Information formats and monitoring checklist must be used for programme monitoring and development and for reporting to emergency operation centre at state level. This is in



addition to existing reporting system in the department

- Establishment of a “Health Helpline” with means of communication to assist in providing an organized source of information. The hospital is responsible for keeping the community informed of its potential and limitations in disaster situations, list of admitted patients and dead persons etc.
- The local police, rescue teams and ambulance teams should be aware of the resources of each hospital.

**Checklist:**

Sl. No.	Preparedness Measures	Action Taken/ Remarks
1	Prepare a Health Contingency Plan for deployment of health and medical personnel	
2	Obtain a list of Respondent Base from district administration and assign mobile health units and medical staff to each Response Base	
3	Organize vaccination in Disaster affected area	
4	Ensure necessary stock of medical supplies and blood	
5	Organize maternity care centers in every Advance Medical Post	
6	Keep operative facilities in readiness	
7	Seek mutual aid arrangement with hospitals/dispensaries in the area	

**1.5. Standard Operating Procedures for Agriculture Department**

In-charge Officer: Principal Agriculture officer

1. Prepare HRV Analysis of the district.
2. Develop Contingency Action Plan based on HRV analysis.
3. Within the affected sub-division/Tehsil all available personnel will be made available to the District Magistrate/Deputy Commissioner. If more personnel are required then, out of station officer or those on leave may be recalled.
4. All personnel required for Disaster/Flood Management should work under the overall supervision and guidance of the District Magistrate.
5. Establish communications with District Magistrate/Deputy Commissioner, District Control Room and Agriculture colleges, seed banks, nurseries (private and public) within the division.
6. Review and update precautionary measures and procedures.
7. Check available stocks of equipments and materials which are likely to be most needed during and after flood/disaster.

8. Stock agricultural equipments which may be required during and after flood.
9. Determine what damage, pests or disease may be expected, and what drugs and other insecticide items will be required, in addition to requirements of setting up extension teams for crop protection, and accordingly ensure that extra supplies and materials, be obtained quickly.
10. All valuable equipments and instruments should be packed in protective coverings and stored in room the most damage-proof.
11. All electrical equipments should be unplugged when flood/disaster warning is received.
12. Extension Officers should be unplugged when flood/disaster warning is received.
13. Extension Officers should be assisted to
  - a. Establish work schedules to ensure that adequate are available.
  - b. Set up teams of extension personnel and assistants for visiting disaster/flood affected sites.
14. Assess the extent of damage to soil, crop, plantation, micro-irrigation systems and storage facilities and the requirements to salvage or replantation.
15. Provision of agricultural services should be coordinated with irrigation department, DRDO, District EOC, SITE OPERATIONS CENTRES.
16. Ensure that certified seeds of required varieties are available in adequate quantities. The Agriculture Department should work with National Seeds Corporation and other suppliers and ensure availability at their depots or have agents appointed for the same.
17. Print and widely distribute the list of points where certified seeds are available along with names of varieties and rates. Notices may be affixed at public places such as bus stands, on buses themselves, PHCs, Block headquarters, Tehsils, etc.
18. Suggest variety of seeds and cropping pattern, which can reduce losses and reduce the risks to farmers.
  - Develop a pest and disease monitoring system so that timely steps can be taken to reduce damage to crops.
  - Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
  - Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
19. Organize transport, storage and distribution of the above with adequate record keeping procedures.
20. Ensure that adequate conditions through cleaning operations are maintained to avoid water logging and salinity.
21. A pests and disease monitoring system should be developed to ensure that a full picture or risks is maintained.
22. Plan for emergency accommodations for agriculture staff from outside the area.
23. Establishment of a public information centre with a means of communication, to assist in providing an organized source of information. The department is responsible for keeping the community informed of its potential and limitations in flood situation.

24. Assist farmers to re-establish their contacts with agriculture produce market and ensure that appropriate prices be offered to them.

**Checklist:**

Sl. No.	Preparedness Measures	Action Taken/ Remarks
1	Check the availability of seeds, and disseminate information about the outlets where seeds can be made available	
2	Set up a public information system regarding sowing of crops, alternative crops, pests, and application of fertilizers	
3	Prepare a program for spray of pesticides and insecticides after the disaster	

**1.6. Standard Operating Procedures for Animal Husbandry**

In-Charge Officer: District Animal Husbandry Officer

Phone: 0484 - 2360648

1. Prepare HRV Analysis of Animal Husbandry Department of the District.
2. Based on HRV Analysis, prepare Contingency Action Plan of the District.
3. All personnel required for Disaster/Flood Management should work under supervision and guidelines of District Magistrate/ADM.
4. Within the affected district and Sub-division, all available personnel will be made available .If more personnel are required, then out of station officers or those on leave may be recalled.
5. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
6. Establish radio communications with
  - District Control Room
  - Veterinary aid centres and hospitals (including private practitioners) within the division.
7. Prepare a list of water borne diseases that are preventable by vaccination. Publicize the information about common diseases afflicting livestock and the precautions that need to be taken.
8. Assist the Revenue Department in preparing plans for cattle camps and cattle feeding centers.
9. Stock emergency medical equipments which may be required during and post disaster
10. Determine what injuries/ illnesses may be expected, and what drugs and other medical items will be required, in addition to requirements of setting up cattle camps, and accordingly ensure that extra supplies of medical items and materials be obtained quickly.

11. Provide information to all staff of veterinary hospitals and centres about the floods, likely damages and effects, and information about ways to protect life, equipments and property.
12. Surgical packs should be assembled and sterilized.
13. Enough stock of surgical packs should be sterilized to last for four to five days.
14. The sterilized surgical packs must be stored in protective cabinets to ensure that they do not get wet. Covering the stock with polythene is recommended as an added safety measure.
15. All valuable equipments and instruments should be packed in protective coverings and stored in room the most damage-proof.
16. Organize vaccination campaigns in disaster prone villages before, during and after the disaster.
17. Prepare kits for veterinary diseases, which could be provided to veterinary doctors at the block level and officers at the village level. Kits can also be provided to the private veterinary doctors.
18. Check the emergency electrical generator, to ensure that it is operational, and that a buffer stock of fuel exists. If an emergency generator is not available at the hospital, arrange for one on loan.
19. Check stocks of equipments and drugs which are likely to be most needed during and after disaster.
20. Request from central warehouses, on an emergency priority basis, that those supplies likely to be needed be dispatched to the hospital immediately.
21. Fill department vehicles with fuel and park them in a protected area.
22. Prepare an area of the hospital for receiving large number of livestock.
23. Develop emergency admission procedures (with adequate record keeping).
24. Cattle camps and hospitals administrators should.
25. Establish work schedules to ensure that adequate staff are available.
26. Set up teams of veterinary doctors, and assistants for visiting flood affected sites.
27. Organize transfer of seriously injured livestock from villages to veterinary aid centres wherever possible.
28. The provision of medical services should be coordinated by the District Animal Husbandry Officer with District Control Room, and cattle camps.
29. Establish cattle camps and additional veterinary aid centres at affected sites and designate an Officer In-charge for the camp.
30. Estimate the requirement of water, fodder and animal feed, for cattle camps and organize the same.
31. Ensure that adequate sanitary conditions through cleaning operations are maintained in order to avoid outbreak of any epidemic.
32. An injury and disease monitoring system should be developed, to ensure that a full

picture of risk is maintained.

**33. Standard for Cattle Camps**

- The minimum number of cattle in the camp should be about 100 and the maximum 500.
- The cattle camps should be located at suitable sites bearing in mind, that adequate supply of water and shade are most essential for the well being of the cattle.
- Cattle sheds constructed should not exceed 20 sq. feet per animal.

The feeding centres for cattle should be located in such a manner that.

- There is adequate supply of drinking water.
- There is sufficient shade for cattle to rest during the afternoon.
- They are located as near the rail head as possible.
- They are conveniently located, not beyond a radius of 8 Km from the affected villages.

**Preparedness Checklist for Animal Husbandry**

Sl. No.	Preparedness Measures	Action Taken/ Remarks
1	Publicize the list of common ailments in disaster and possible precautions	
2	Organisation of vaccination for cattle in disaster villages	
3	Prepare a plan for setting up cattle camps and cattle feeding centers	
4	Prepare kits which could be given to Veterinary doctors and Animal Husbandry workers	

**1.7. Standard Operating Procedure for Water Authority**

In-Charge Officer : KWA, Contct Number

1. Conduct HRV analysis of the department.
2. Based on HRV analysis, prepared Contingency Action Plan for the Department.
3. All personnel required for disaster management should work under the overall supervision and guidance of District Magistrate/ Deputy Commissioner of the district.
4. Review and update precautionary measures and procedures and review with staff the precautions that have been taken to protect equipment.
5. Within the affected tehsil, all available personnel will be made available to the concerned officer. If more personnel are required then out of station official or those on leave may be recalled.
6. Inform people to store an emergency supply of drinking water.
7. A standby water supply should be available in the event of damage, saline intrusion or other pollution of the regular supply.

8. Establish procedures for the emergency distribution of water if existing supply is disrupted.
9. Make provisions to acquire tankers and establish other temporary means of distributing water on an emergency basis.
10. Prepare plans for water distribution to all transit and relief camps, affected villages and cattle camps and ensure proper execution of these plans.
11. A minimum level of stock should be maintained for emergencies, and should include extra lengths of pipe connections, joints, hydrants and bleaching powder. Adequate tools should be on hand to carry out emergency repairs.
12. Protect pumps and motors with adequate protection (if the building is not flood-proof) to prevent damage.
13. Make sure auxiliary generators and standby engines are in good working order.
14. Establish emergency work gangs for immediate during post-disaster repairs.
15. Investigation of alternate of water and its supply.
16. After any repair on the distribution system, the required main should be flushed and disinfected with a chlorine solution of 50 mg/litre for a contact period of 24 hours, after which the main is emptied and flushed again with potable water.
17. If the demand for water is urgent, or the repaired main cannot be isolated, the concentration of the disinfecting solution may be increased to 100 mg/litre and the contact period reduced to 1 hour.
18. At the end of disinfection operations, but before the main is put back into services, samples should be taken for bacteriological analysis and determination of chlorine residue.
19. Protect pump stations from water logging.
20. Repair sewage lines where damage is detected.
21. Repair water pipelines wherever damaged.
22. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
23. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
24. When a water treatment plant, pumping station, of distribution system is so badly damaged that operation cannot be restored for some time, other methods described in the following paragraphs must be used.
25. Water from these sources, with adequate chlorination as necessary, can be connected to a distribution system or hauled to the points of consumption.
26. Identify unacceptable water sources and take necessary precautions to ensure that no water is accessed from such sources, either by sealing such arrangements or by posting the department guards.
27. Ensure that potable water supply is restored as per the standards and procedures laid down in “Standards for Potable Water”.
28. Plan for emergency accommodations for staff from outside the area.

29. To take special measures and schemes for areas with Drinking Water Supply.

**Checklist:**

Sl. No.	Preparedness Measures	Action Taken/ Remarks
1	Check the condition of pumps for draining floodwater. Ensure pumps are in working condition.	
2	Protect water supply pumps from water logging	
3	Keep hand pumps, pipes and sockets in readiness for installation/ increasing the height of pipes	
4	Obtain a list of temporary shelters/ Bundhs where people took shelter during last disaster. Prepare for installation of hand pumps at all such Locations	
5	Maintain adequate stock of chlorine tables and bleaching powder	

**1.8. Standard Operating Procedures for Forest Department**

In-Charge Officer : Divisional Forest officer

1. Conduct HRV analysis of Forest of the district.
2. Based on HRV analysis, prepared Contingency Action Plan for the Department.
3. All personnel required for disaster management should work under the overall supervision and guidance of Deputy Commissioner.
4. All district level officials of the department would be asked to report to the Deputy Commissioner when disaster occurs.
5. Open the forest land for free grazing when flood waters enter villages, and there is not enough fodder available.
6. Allow the transportation of fodder from forest areas, when the fodder is not freely available.
7. Provide wooden poles and bamboo for relief and reconstruction at subsidized rate. Provide these materials to all the technical departments, which need them.
8. Ensure Plantation to maximum possible extent.
9. Ensure supply of wood for disposal of dead bodies.
10. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
11. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.

**1.9. Standard Operating Procedures for Public Works Department**

In-Charge Officer: Chief Engineer PWD (R &B )

1. Conduct HRV analysis of PWD of the district.

2. Based on HRV analysis, prepared Contingency Action Plan for the Department.
3. All personnel required for disaster management should work under the overall supervision and guidance of District Magistrate/Additional District Magistrate..
4. Within the affected Sub-division, all available personnel will be made available to the District Magistrate/Deputy Commissioner. If more personnel are required then out of station officers or those on leave may be recalled.
5. Establish radio communications with State Emergency Operations Centre, Divisional Commissioner, District Control Room and departmental offices within the division.
6. The Officer-in-Charge-PW (B&R)” will be responsible for mobilizing staff and volunteers to clear the roads in his section.
7. The Office Incharge PW (B&R) should be familiar with pre-disaster precautions and during and post-disaster procedures for road clearing and for defining safe evacuation routes where necessary.
8. All officers (technical officers) should be notified and should meet the staff to review emergency procedures.
9. Review and update precautionary measures and procedures, and review with staff the precautions that have been taken to protect equipment.
10. Vehicles should be inspected, fuel tanks filled and batteries and electrical wiring covered as necessary.
11. Extra transport vehicles should be dispatched from headquarters and stationed at safe strategic spots along routes likely to be affected.
12. Heavy equipments, such as front-end loaders, should be moved to areas likely to be damaged and secured in a safe place.
13. Clean the area beneath bridges regularly for smooth flow of water excess.
14. Maintain all the highways and access roads, which are critical from the point of view of supplying relief.
15. Inspect all buildings and structures of the state government (including hospital buildings.) by a senior engineer and identify structures which are endangered by the impending disaster.
16. Emergency tools kits should be assembled for each division, and should include:
  - Crosscut saws
  - Axes
  - Power chain saw with extra fuel, oil
  - Sharpening files
  - Chains and tightening wrenches
  - Pulley block with chain and rope
17. The designation of routes strategic to evacuation and relief should be identified and marked, in close coordination with police and District Control Room.
18. Establish a priority listing of roads which will be opened first. Among the most important are the roads to hospitals and main trunk routes.
19. Give priority attention to urgent repair works that need to be undertaken in disaster



affected areas.

20. Work under construction should be secured with ropes, sandbags and covered with tarpaulins if necessary.
21. Emergency inspection by mechanical engineer of all plant and equipment in the district workshops.
22. If people are evacuating an area, the evacuation routes should be checked and people assisted.
23. Construct/ reinforce the connecting roads from villages to roads, canals and Bundhs and raise their level so that people can access the high ground.
24. Laying down layout of roads, gardens and other response facilities from the view point of prevention of congestions, quicker response and facilities alternative routing.
25. Inspection of old buildings and suggesting retrofitting of weak buildings/ demolition of dangerous structures and evacuation of population.
26. Carry out route opening by removing debris on the road.
27. Identify locations for setting up transit and relief camps, feeding centres and quantity of construction materials and inform DCR accordingly.
28. All work teams should be issued two-way communication Link.
29. Provide a work team carrying emergency tool kits, depending on the nature and extent of the disaster, essential equipments such as.
  - Towing vehicles
  - Earth moving equipments
  - Cranes etc.
30. Each unit should mobilize a farm tractor with chain, and a buffer stock of fuel.
31. Adequate road signs should be installed to guide and assist the drivers.
32. Begin clearing roads. Assemble casual labourers to work with experienced staff and divide them into work gangs.
33. Coordinate with Building and Construction Department of Zila Parishad/ADC Office.
34. Mobilize community assistance for road clearing by contacting community organizations.
35. Undertake clearing of ditches, grass cutting, burning or removal of debris, and the cutting of dangerous trees along the roadside in the affected area through maintenance engineer's staff.
36. Undertake repair of all paved and unpaved road surfaces including edge metalling, pothole patching and any failure of surface, foundations in the affected areas by maintenance engineer's staff and keep monitoring their conditions.
37. Undertake construction of temporary roads to serve as access to temporary transit and relief camps, and medical facilities for flood victims.
38. As per the decisions of the District Control Room, undertake construction of temporary structures required, for organizing relief work and construction of relief camps, feeding centres, medical facilities, cattle camps and SITE OPERATIONS CENTRES.
39. An up-to-date report of all damage and repairs should be kept in the district office report book and communicate the same to the District Control Room.

40. If possible, a review of the extent of damage (by helicopter) should be arranged for the field Officer-in-Charge, in order to dispatch most efficiently road clearing crews, and determine the equipments needed.

### 1.10. Standard Operating Procedures for KSEB

In-charge officer: Chief Engineer (Distribution)

1. Conduct HRV analysis for the department of the district.
2. Based on HRV analysis, prepare Contingency Action Plan of department of Power Supply.
3. All personnel required for disaster management with work under the overall supervision and guidance of responsible officer .
4. Within the affected sub-division all available personal will be made available as per IRS plan. If more personnel are required, then out of station officers and by those on leave may be recalled.
5. Establish radio communications with State Emergency Operation Centre, District Control Room and your departmental offices within /Division.
6. All district level officials of the department would be asked to report District Magistrate.
7. Ensure that the Power Supply department to make alternate arrangements of emergency supply for the following offices from time of receipt of districts:
  - Hospitals
  - Public Health Departments
  - Deputy Commissioner Office,
  - District EOC, Sub-Divisional EOC, site Operation Centres.
  - Police Stations
  - Telecommunications buildings
  - Irrigation Office
  - Any other place if required.
8. Check emergency tool kits, assembling any additional equipment needed.
9. After receiving alert warning, immediately undertake following inspection:
  - High tension lines
  - Towers
  - Sub-stations
  - Transformers
  - Insulators
  - Poles and
  - Other equipments
10. Review the total extent of the damage to power supply installations.
11. Instruct staff to disconnect the main electricity supply for the affected area.

12. Protect Power Stations from disaster. Raise the height of compound walls. Install pump sets for draining water in case of Flood/ Cyclone/ Tsunami, etc.
13. Provide information to the people about the state of power supply. It is one of the most important sources of information.
14. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
15. Hire casual labourers on an emergency basis for clearing of damaged poles and salvage of conductors and insulators.
16. Begin repair/reconstruction
17. Assist hospitals in establishing an emergency supply by assembling generators and other emergency equipments if necessary.
18. Establish temporary electric supplies to other key public facilities, public water system etc. to support emergency relief.
19. Establish temporary electric supplies to transit camps feeding centres, relief camps and Site Operation Centre, District EOC and on access roads to the same.
20. Compile an itemized assessment of damage, from reports made by various electrical receiving centres and sub-centres.
21. Report all activities to the head office and district EOC.
22. Plan for emergency accommodations for staff from outside the area.

### **1.11. Standard Operating Procedure for Transport department**

In-Charge Officer: Head, Transport Department at the district

#### **Activities**

1. Prepare a list of vehicles- trucks, buses, jeeps, tractors, etc of government and private agencies in the district and provide the list to the District control room.
2. Provide requires vans and ambulances for mobile health and animal husbandry teams.
3. Provide trucks, buses, jeeps, tractors, etc for evacuation and supply chain management
4. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
5. Call for emergency meeting to take stock of the situation. Develop a strategy and objective.

ANNEXURE 16

**EMERGENCY SUPPORT FUNCTIONS**

**Roles and responsibilities of primary and secondary Emergency Support Agencies**

ESF No	ESF	Primary agency	Secondary agency	Responsibilities of Primary agency	Activities for Response	Role of Secondary agency
1	Command and Control	<ul style="list-style-type: none"> <li>•SEOC</li> <li>•DEOC</li> </ul>	<ul style="list-style-type: none"> <li>• Dept. of IT</li> <li>• National Informatics Centre</li> </ul>	<ul style="list-style-type: none"> <li>• Act as the headquarters of Emergency Operations</li> <li>• Issue directions on-behalf of the State Incident Commander</li> <li>• Issue status update of weather and other relevant environmental parameters</li> <li>• Operate a Disaster Welfare Information (DWI) System to collect, receive and report and status of victims and assist family reunification</li> <li>• Apply GIS to speed other facilities of relief and search and rescue</li> <li>• Enable local authorities to establish contact with the State authorities</li> <li>• Coordinate planning procedures between district, State and the centre</li> </ul>	<ul style="list-style-type: none"> <li>• Documentation of response/ relief and recovery measures</li> <li>• Situation reports to be prepared and completed every 3-4 hours</li> </ul>	Ensure perennial and uninterrupted communication facilities for the SEOC/DEOC

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				<ul style="list-style-type: none"> <li>• Provide ready formats for all reporting procedures as a standby</li> </ul>		
2	Communication	BSNL	<ul style="list-style-type: none"> <li>• Police</li> <li>• Central and State Armed Forces</li> <li>• HAM Radio Operators</li> </ul>	<ul style="list-style-type: none"> <li>• Provide ready formats for all reporting procedures as a standby</li> <li>• Coordination of actions to assure the provision of telecommunication support in the state and district</li> <li>• Coordinate the requirement of temporary telecommunication in the affected area</li> </ul>	<ul style="list-style-type: none"> <li>• Responsible actions to assure the provision of telecommunication support to the State and district response elements</li> <li>• Coordinate the requirement of temporary telecommunication in the affected areas</li> </ul>	<ul style="list-style-type: none"> <li>• Make available Police and Disaster Management wireless network at the affected locations</li> <li>• Coordinate for the other networks available such as HAM Radios and community radios</li> <li>• The units of armed forces in the area would provide communication network on the request of the competent authority</li> </ul>
3	Public health	Dept. of Health and Family Welfare	<ul style="list-style-type: none"> <li>• Dept. of Indian Systems of Medicine</li> <li>• Dept. of Homeopathy</li> <li>• Dept. of Social Justice</li> <li>• Non-Governmental</li> </ul>	<ul style="list-style-type: none"> <li>• To coordinate, direct and integrate State level response</li> <li>• Direct activation of medical personnel, supplies and equipment</li> <li>• Coordinate the evacuation of patients</li> <li>• Provide human services under the Dept. of Health</li> </ul>	<ul style="list-style-type: none"> <li>• Provide systematic approach to patient care</li> <li>• Perform medical evaluation and treatment as needed</li> <li>• Maintain patient tracking system to keep record of all</li> </ul>	<ul style="list-style-type: none"> <li>• To perform the same functions as assigned to the primary agency</li> <li>• Provide manpower to the primary agency wherever available and needed</li> <li>• Make available its resources to the</li> </ul>

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			Organizations	<ul style="list-style-type: none"> <li>•To prepare and keep ready Mobile Hospitals and stocks</li> <li>•To network with private health service providers</li> <li>•To provide for mass decontamination</li> <li>•Check stocks of equipment and drugs</li> <li>•Assess damage for national assistance</li> </ul>	<p>patients treated</p> <ul style="list-style-type: none"> <li>•Mobilization of the private health service providers for emergency response</li> <li>•In the vent of CNBR disaster to provide for the mass decontamination of the affected population</li> <li>•Maintain record of dead and arrange for their post mortem</li> </ul>	primary agency wherever needed and available
4	Sanitation/ Sewerage Disposal	<ul style="list-style-type: none"> <li>•Urban Affairs</li> <li>•Rural Development</li> <li>•Local Self Governments</li> </ul>	<ul style="list-style-type: none"> <li>•Irrigation</li> <li>•Public Health</li> <li>•Non-Governmental Organizations</li> </ul>	<ul style="list-style-type: none"> <li>•Make arrangement for disposal of waste in their respective areas</li> <li>•Arrange adequate material and man power to maintain cleanliness and hygiene</li> <li>•Assess damage for national assistance</li> </ul>	<ul style="list-style-type: none"> <li>•Ensure cleanliness and hygiene in their respective areas</li> <li>•To arrange for the disposal of unclaimed bodies and record keeping thereof</li> <li>•Hygiene promotion with the availability of mobile toilets</li> </ul>	<ul style="list-style-type: none"> <li>• Repair the sewer leakages immediately</li> <li>• Provide bleaching powder to the primary agencies to check, maintain sanitation</li> </ul>
5	Power	KSEB	<ul style="list-style-type: none"> <li>• Dept. of Revenue &amp; Disaster Management</li> <li>• Police</li> </ul>	<ul style="list-style-type: none"> <li>• Provide and coordinate State support until the local authorities are prepared to handle all power related</li> </ul>	<ul style="list-style-type: none"> <li>•Support to local Administration</li> <li>•Review the total extent of damage to</li> </ul>	Make arrangement for and to provide the alternative sources of lighting and heating to

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				<p>problems</p> <ul style="list-style-type: none"> <li>• Identify requirements of external equipment required such as Generators</li> <li>• Assess damage for national assistance</li> </ul>	<p>the power supply installations by a reconnaissance survey</p> <ul style="list-style-type: none"> <li>• To provide alternative means of power supply for emergency purposes</li> <li>• Dispatch emergency repair teams equipped with tools, tents and food</li> <li>• Hire casual labour for the clearing of damaged poles etc.</li> </ul>	<p>the affected populations and for the relief camps</p>
6	Transport	Dept. of Transport	<ul style="list-style-type: none"> <li>• KSRTC</li> <li>• Airport Authority</li> <li>• Air Force</li> <li>• Navy</li> <li>• KSWTC</li> <li>• All other Government Departments with fleets of vehicles</li> <li>• All private vehicle owners</li> </ul>	<ul style="list-style-type: none"> <li>• Overall coordination of the requirement of the transport</li> <li>• Make an inventory of vehicles available for various purposes</li> <li>• Coordinate and implement emergency related response and recovery functions, search and rescue and damage assessment</li> </ul>	<ul style="list-style-type: none"> <li>• Coordinate arrangement of vehicles for transportation of relief supplies from helipads/airports to the designated places</li> <li>• Coordinate arrangement of vehicles for transportation of search and rescue related activities</li> </ul>	<ul style="list-style-type: none"> <li>• Make available its fleet for the purpose of Search &amp; Rescue, transportation of supplies, victims etc.</li> <li>• Act as stocking place for fuel for emergency operations</li> <li>• Making available any vehicle to the District Administration</li> <li>• Make available Ambulances to the District</li> </ul>

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						<p>Administration</p> <ul style="list-style-type: none"> <li>• Airport Authority will coordinate for helicopter services etc. required for transportation of injured, search &amp; rescue team, relief and emergency supplies etc. with SEOC of KSDMA</li> </ul>
7	Search and Rescue (SAR)	<ul style="list-style-type: none"> <li>• Fire &amp; Rescue Services</li> <li>• Police</li> <li>• SDRF</li> <li>• Civil Defence</li> <li>• Home guards</li> </ul>	<ul style="list-style-type: none"> <li>• NDRF</li> <li>• Air Force</li> <li>• Navy</li> <li>• Army</li> <li>• Central Para military forces</li> <li>• Red Cross</li> <li>• Trained Volunteers</li> <li>• Emergency Response Units of concerned industry</li> <li>• SEOC</li> </ul>	<ul style="list-style-type: none"> <li>• Establish maintain and manage State search and rescue response system</li> <li>• Coordinate search and rescue logistics during field operations</li> <li>• Provide status reports of SAR updates throughout the affected areas</li> </ul>	<ul style="list-style-type: none"> <li>• GIS to be used by SEOC to make an estimate of the damaged area and the deployment of the SAR team in the area according to the priority</li> <li>• Discharge all ambulatory patients for the first aid which has the least danger to health and others transported to safer areas</li> </ul>	<ul style="list-style-type: none"> <li>• Health &amp; Family Welfare Dept. and Red Cross to make available ambulances as per requirements</li> <li>• SDRF, and Volunteers to assist the primary agency in SAR</li> <li>• NDRF, Central Para military forces to provide assistance to civil authorities on demand</li> <li>• Police to arrange for the transportation and post mortem of the dead</li> </ul>
8	Public Works	<ul style="list-style-type: none"> <li>• PWD</li> </ul>	<ul style="list-style-type: none"> <li>• CPWD</li> </ul>	<ul style="list-style-type: none"> <li>• Emergency clearing of debris</li> </ul>	<ul style="list-style-type: none"> <li>• Establish a priority</li> </ul>	Making machinery and



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	and Engineering	<ul style="list-style-type: none"> <li>• Water Resources</li> </ul>	<ul style="list-style-type: none"> <li>• National Highways Authority of India</li> <li>• Military Engineering Services</li> </ul>	<p>to enable reconnaissance</p> <ul style="list-style-type: none"> <li>• Clearing of roads</li> <li>• Assemble casual labour</li> <li>• Provide a work team carrying emergency tool kits, depending on the nature of disaster, essential equipment such as                             <ul style="list-style-type: none"> <li>▪ Towing vehicles</li> <li>▪ Earth moving equipment</li> <li>▪ Cranes etc</li> </ul> </li> <li>• Construct temporary roads</li> <li>• Keep national and other main highways clear from disaster effects such as debris etc.</li> <li>• Networking with private service providers for supply of earth moving equipment etc.</li> </ul>	<p>list of roads which will be opened first</p> <ul style="list-style-type: none"> <li>• Constructing major temporary shelters</li> <li>• Connecting locations of transit/relief camps</li> <li>• Adequate road signs should be installed to guide and assist the relief work</li> <li>• Clearing the roads connecting helipads and airports</li> <li>• Restoring the helipads and making them functional</li> <li>• Rope in the services of private services providers and secondary services if the department is unable to bear the load of the work</li> </ul>	<p>manpower available to the PWD and to keep national highways and other facilities in functional State</p>
9	Relief supplies	District Administration	Dept. of Food and Civil supplies	<ul style="list-style-type: none"> <li>• To collect, process and disseminate information about an actual or potential disaster situation to facilitate</li> </ul>	<ul style="list-style-type: none"> <li>• Support to local administration</li> <li>• Allocate and specify type of requirements</li> </ul>	<ul style="list-style-type: none"> <li>• To assist the primary agency in arranging and supplying relief supplies</li> </ul>

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				<p>the overall activities of all responders in providing assistance to an affected area in consultation</p> <ul style="list-style-type: none"> <li>• Coordinate activities involved with the emergency provisions</li> <li>• Temporary shelters</li> <li>• Emergency mass feeding</li> <li>• To coordinate bulk distribution of emergency supplies</li> <li>• To provide logistical and resource support to local entities</li> <li>• In some instances, services also may be provided to disaster workers</li> <li>• To coordinate damage assessment and post disaster need assessment</li> </ul>	<p>depending on need</p> <ul style="list-style-type: none"> <li>• Organize donation (material) for easy distribution before entering disaster site</li> </ul>	<ul style="list-style-type: none"> <li>• To assist the primary agency in running the relief camps</li> </ul>
10	Food and supplies	<ul style="list-style-type: none"> <li>• Dept. of Food and Civil Supplies</li> <li>• Horticulture Corporation</li> </ul>	<ul style="list-style-type: none"> <li>• Dept. of Cooperation</li> <li>• Non-Governmental Organizations</li> </ul>	<ul style="list-style-type: none"> <li>• Requirement of food and clothing for affected population</li> <li>• Control the quality and quantity of food, clothing and basic medicines</li> <li>• Ensure the timely distribution of food and</li> </ul>	<ul style="list-style-type: none"> <li>• Make emergency food and clothing supplies available to population</li> <li>• Ensure the provision of specific nutrients and supplementary diet for the lactating,</li> </ul>	<p>Ensuring the distribution of food supplies to the affected population through the PDS network etc.</p>

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				<p>clothing to the people</p> <ul style="list-style-type: none"> <li>• Ensure that all food that is distributed is fit for human consumption</li> </ul>	<p>pregnant women and infants.</p>	
11	Drinking water	<ul style="list-style-type: none"> <li>• Kerala Water Authority</li> <li>• District Administration</li> </ul>	<ul style="list-style-type: none"> <li>• Local Self Governments (LSG)</li> <li>• Non-Governmental Organizations</li> </ul>	<ul style="list-style-type: none"> <li>• Procurement of clean drinking water</li> <li>• Transportation of water with minimum wastage</li> <li>• Special care for women with infants and pregnant women</li> <li>• Ensure that sewer pipes and drainage are kept separate from drinking water facilities</li> </ul>	<ul style="list-style-type: none"> <li>• Support LSGs</li> <li>• Water purification</li> </ul>	<p>To assist the primary agency wherever LSG is associated in the distribution of potable water</p>
12	Relief Camps & Grovel Centres	<p>District Administration</p>	<ul style="list-style-type: none"> <li>• Dept. of General Education</li> <li>• Dept. of Higher Education</li> <li>• Local Self Governments</li> </ul>	<ul style="list-style-type: none"> <li>• Provide adequate and appropriate shelter to affected population</li> <li>• Quick assessment and identifying the area for the establishment of the relief camps</li> <li>• Identification of public buildings as possible shelters</li> <li>• Identifying the population which can be provided with support in their own place and need not be shifted, relocated</li> <li>• Locate relief camps close to open traffic and transport</li> </ul>	<ul style="list-style-type: none"> <li>• Support to local administration</li> <li>• Locate adequate relief camps based on survey of affected population</li> <li>• Develop alternative arrangements for population living in structures that might be affected even after the disaster</li> </ul>	<ul style="list-style-type: none"> <li>• The General Education and Higher Education Department shall assist the primary agency in establishing temporary shelters of larger dimensions particularly in schools and higher education institutions in unaffected areas immediately close to the affected area</li> <li>• LSGs would assist the primary agency in establishing shelters of</li> </ul>

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				links		smaller dimensions • Provide temporary LPG cylinders and stoves for cooking
13	Media	Information and Public Relations Department	<ul style="list-style-type: none"> <li>• All India Radio</li> <li>• Doordarshan</li> <li>• All private audio-visual media</li> <li>• All print media</li> </ul>	<ul style="list-style-type: none"> <li>• To provide and collect reliable information on the status of the disaster and disaster victims for effective coordination of relief work at State level</li> <li>• Not to intrude on the privacy of individuals and families while collecting information</li> <li>• Acquire accurate scientific information from the SEOC regarding possible continuity of the disaster situation/early warning</li> <li>• Coordinate with SEOC at the airport and railways for required information for international and national relief workers</li> <li>• Coordinate with all TV and radio networks to send news flashes for specific needs &amp; warnings</li> <li>• Respect the socio-cultural and emotional state of the</li> </ul>	<ul style="list-style-type: none"> <li>• Use and place geographical Information to guide people towards relief operations</li> <li>• Use appropriate means of disseminating information to victims of affected area</li> <li>• Curb the spread of rumours</li> <li>• Disseminate instructions to all stakeholders</li> </ul>	To assist the primary agency in discharge of its role.

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				disaster victims while collecting information for dissemination		
14	Help lines	<ul style="list-style-type: none"> <li>•SEOC</li> <li>•DEOC</li> <li>•Police Control Rooms</li> </ul>	<ul style="list-style-type: none"> <li>•Department of Public relations</li> <li>•HAM Radio Operators</li> </ul>	<ul style="list-style-type: none"> <li>•To receive distress calls from the affected people and coordinate with the control room</li> <li>•To facilitate the optimization of donations received in kind</li> <li>•Coordinate, collect, process, report and display essential elements of information and to facilitate support for planning efforts in response operations</li> <li>•Coordinate pre-planned and event-specific aerial reconnaissance operations to assess the overall disaster situation</li> <li>•Pre-positioning assessment teams headed by the State coordinating officer and deployment of other advance elements</li> <li>•Emergency clearing of debris to enable reconnaissance of the damaged areas and passage of emergency</li> </ul>	<ul style="list-style-type: none"> <li>•One of the most critical needs will be having a simplified way of identifying and tracking victims and providing assistance</li> <li>•Identify locations for setting up transit and relief camps, feeding centres and setting up of the help lines at the nodal points in the State and providing the people the information about the numbers</li> </ul>	To assist the primary agency in performing its job effectively and provide its manpower and resources for the purpose.

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				personnel and equipment for life saving property protection and health and safety		
15	Animal care	Department of Animal Husbandry	LSGs	<ul style="list-style-type: none"> <li>• Treatment of animals</li> <li>• Provision of vaccination</li> <li>• Disposal of dead animals</li> </ul>	<ul style="list-style-type: none"> <li>• To arrange for timely care and treatment of animals in distress</li> <li>• Removal dead animals to avoid outbreak of epidemics</li> <li>• Ensure adequate food and water to animals</li> <li>• Establish animal shelters</li> </ul>	To assist the primary agency in performing its role
16	Law and order	Police	Home Guards	<ul style="list-style-type: none"> <li>• Having sound communication and security plan in place to coordinate law and order issues</li> <li>• Training to security personnel in handling disaster situations and issues related to them</li> </ul>	<ul style="list-style-type: none"> <li>• To maintain law and order</li> <li>• To ensure that at least 500 m surrounding a calamity affected area is cleared off civilian unskilled onlookers</li> <li>• To take measure against looting and rioting</li> </ul>	To assist the primary agency by making available manpower

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					<ul style="list-style-type: none"> <li>•To ensure the safety and security of relief workers and material</li> <li>•To take specific measure for the protection of weaker and vulnerable sections of the society</li> <li>•To provide safety and security at relief camps and temporary shelters</li> </ul>	
17	Removal of trees	<ul style="list-style-type: none"> <li>•Forest</li> <li>•LSG</li> <li>•Fire &amp; Rescue Services</li> <li>•PWD</li> <li>•National Highways Authority</li> </ul>	Indian Railways	<ul style="list-style-type: none"> <li>•Removal of fallen trees</li> </ul>	<ul style="list-style-type: none"> <li>• Arrange for timely removal of trees obstructing the movement of traffic</li> <li>• Arrange for timely removal of trees which have become dangerous</li> </ul>	Ensure that railway network is uninterrupted and fallen trees are removed immediately

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## Form No. ESF-1

*To be filled by all State Heads of Primary ESF Departments and submitted to Dept. of Revenue and Disaster Management in the period between March-May every year.*

Government of Kerala  
Department of \_\_\_\_\_

Subject: EMERGENCY SUPPORT FUNCTIONS (ESF) PLAN 2014

In compliance with the National Disaster Management Act, 2005, Section 40 (3), the following report is submitted to the State Executive Committee of KSDMA.

	Item	Available	Not Available
A	Human Resource		
B	Materials & machinery		
C	Financial Allocation		
D	Departmental Plan		

\*Under Section 39 and 40 of the NDM Act, 2005, it is mandatory for all state government departments to ensure a set of disaster risk reduction/response plans including financial arrangements. Please tick the applicable.

### A. Human Resource - Nodal Officers in districts

District	Name and Designation	Contact Details including Mobile No. & Email
Thiruvananthapuram		
Kollam		
Pathanamthitta		
Alappuzha		
Kottayam		
Idukki		
Ernakulam		
Thrissur		
Palakkad		
Malappuram		
Kozhikode		
Wayanad		
Kannur		
Kasargod		

*The nodal officers shall identify local field officers for the field level quick response and ensure that the details of these officers are kept readily at hand.*

### B. Materials and Machinery

District	Materials	Quantity	Machinery	Type	Location including contact details
Thiruvananthapuram					
Kollam					
Pathanamthitta					
Alappuzha					
Kottayam					



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Idukki			
Ernakulam			
Thrissur			
Palakkad			
Malappuram			
Kozhikode			
Wayanad			
Kannur			
Kasargod			

Materials: Sand bags, rock boulders, food grains, fuel, coal tar, cement, agriculture seed stock, fodder stock, Drinking water etc.; Machinery: Earthmovers, tractors, electric cutters, pumps, boats, water transport tanks, water tanker lorries, etc. Other items may be added to this depending on need.

Add contact details of the control officer or owner (in case of private machinery)

### C. Financial Allocation

District	Amount (in lakhs)	Head of Account	Permissible use
Thiruvananthapuram			
Kollam			
Pathanamthitta			
Alappuzha			
Kottayam			
Idukki			
Ernakulam			
Thrissur			
Palakkad			
Malappuram			
Kozhikode			
Wayanad			
Kannur			
Kasargod			

- It is certified that the aforesaid resources (manpower, services, material and equipment) are considered adequate for accomplishing the Emergency Support Functions assigned to this department.
- It is certified that in addition to above resources this department has entered in to pre-contracts for supply of resources are given in the attached Form No. ESF-02
- This department has issued authorization vide Order No. \_\_\_\_\_ dated \_\_\_\_\_, as at Form No. ESF-03 in favour of the nodal officers and the designated officers to deploy the resources in the event of disasters and in accordance with the requests received from the SEOC/DEOC
- The Departmental Disaster Management Plan has been last updated on ----- (dd/mm/yy)

Authorized signatory

Name:

Designation:

Date:

**Form No. ESF-2: Rate-contract fixation form**

Government of Kerala

Dept. of \_\_\_\_\_

Sl. No.	Material/equipment/Services Description/specification	Qty. in Nos.	Qty. in Wt/Vol	Rate contract Location	Rate contract approved & validity period
1	Services				
2	Material				
3	Equipment				

*To be filled by all District Heads of Primary ESF Departments and submitted to District Emergency Operations Centre in the period between March-May every year. Note that rate contract is mandatory for material & machinery. Materials: Sand bags, rock boulders, food grains, fuel, coal tar, cement, agriculture seed stock, fodder stock, drinking water (if not from Kerala Water Authority) etc.; Machinery: Earthmovers, tractors, electric cutters, pumps, boats, water transport tanks, water tanker lorries, etc. Other items may be added to this depending on local need.*

Authorized signatory

Name:

Designation:

Date:

**Form No. ESF-3**

*To be issued by all departments listed in ESF Plan, 2014*

Subject: Deployment of resources in the event of disasters - authorization thereof as per the ESF Plan –2014

1. GO (Ms) 240/2010/DMD dtd 19/06/2010

The Department of Revenue and Disaster Management is the nodal department for coordinating relief and response in the event of both natural and manmade disasters, as per the State Disaster Management Policy, 2010 approved vide GO cited as 1<sup>st</sup> paper above.

In the event of a disaster, this department is required to provide emergency support to the Department of Revenue and Disaster Management in regard to the functions listed in the ESF Plan, 2014.

It has accordingly been decided, with the approval of the competent authority, to authorize the nodal officers and the designated officers in the field offices of this department to deploy resources in the events of disasters and in accordance with the requests received from the State Emergency Operations Centre or District Emergency Operations Centres under Department of Revenue and Disaster Management.

In case the resources are likely to be deployed for a period exceeding 72 hours, the officers concerned shall obtain necessary approvals of the competent authority for continued deployment. In such a situation necessary approvals may also be obtained for procurement and deployment of pre-contract resources, as the need may be.

Name & Designation of the officer

Copy to:

1. Principal Secretary, Revenue and Disaster Management, Govt. of Kerala
2. SEOC, ILDM, PTP Nagar, Thiruvananthapuram, Kerala
3. Nodal Officers
4. All District Collectors

ANNEXURE 24

**NATURAL HAZARD ZONATION MAP**

TALUK	VILLAGE	LANDSLIDE	COASTAL EROSION	FLOODS	LIGHTNING	EARTH QUAKE (Magnitude)
KOCHI	Challanam		Up to Sea wall	Banks of Kaithapuzha kayal & Reclaimed land (Paddy fields) Maruvakadavu, Chellanam		
	Kumbalanghy		Up to Sea wall	Banks of Kitapuzha kayal & Reclaimed land (Paddy fields) Kumbalangi, Maruvakadavu, Kundakadavu		
	Pallurudhy		Up to Sea wall	Banks of Kochi kayal & Reclaimed land (Paddy fields) Mundameli, Mandasserri		
	Edakochi			Banks of Kochi kayal		
	Ramaswaram		Up to Sea wall	Banks of Kochin kayal	Low	
	Thoppumpady			Banks of Kochin kayal		
	Mattancherry			Banks of Kochin kayal		5
	Fortkochi		Up to Sea wall	Banks of Kochin kayal	Low	
	Puthuvype			Banks of Ernakulam kayal & Reclaimed land (Paddy fields) PuduVypin,	Low	5.7
	Elankunnapuzha		Up to Sea wall	Banks of Ernakulam kayal & Reclaimed land (Paddy fields) Malippuram, Pudevypin		
	Njarakkal		Up to Sea wall	Banks of Ernakulam Kayal & Reclaimed land (Paddy fields) Neumgad, Manjanakkad, Njarakkal		
	Nayarambalam		Up to Sea wall	Banks of Tattapally River, Nedungad Puzha & Reclaimed land (Paddy fields) Nayarambalam, Bhagavathi ambalam		
	Edavanakad		Up to Sea wall	Banks of Tattapally River, Anayil thodu & Reclaimed land (Paddy fields) Edavanakkad		
Kuzhupilly		Up to	Banks of Tattapally River & Reclaimed land (Paddy fields) Kuzhipally,			

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

			Sea wall	Cheruvalpu		
	<b>Pallipuram</b>		Up to Sea wall	Banks of Periyar river & Tattapally River		
<b>PARAVUR</b>	<b>Muthakunnam</b>			Banks of Periyar river & Tottapally River	Low	
	<b>Vadikkekara</b>			Banks of Tottapally River & Paravur Thodu	Moderate	
	<b>Paravur</b>			Banks of Periyar river & Paravur thodu		
	<b>Kottupally</b>			Banks of Periyar river & Anachal thodu	Low	
	<b>Ezhikara</b>			Reclaimed land (Paddy fields) on the banks of Periyar river	Low	
	<b>Varapuzha</b>			Banks of Periyar river & Varapuzha		
	<b>Eloor</b>			Banks of Periyar river & Varapuzha		
	<b>Kadungallor</b>			Banks of Periyar river, Varapuzha, Varattupuzha & Onji thodu		
	<b>Alangad</b>			Broad flat bottom valleys (Paddy fields) on the banks of Periyar river, Onji thodu, Anachal thodu		
	<b>Karumaloor</b>			Banks of Periyar river & Anachal thodu		
	<b>Chennamangalom</b>			Banks of Periyar river & Paravur thodu		
	<b>Puthenvelikara</b>			Banks of Periyar river, Chalakudi river & Kotakulangara thodu		
	<b>Kunnukara</b>			Banks of Periyar river, Chalakudi river & Kotakulangara thodu		
<b>KANAYANNUR</b>	<b>Kadamakudy</b>			Banks of Periyar river & Ernakulam kayal		
	<b>Mulavucad</b>			Banks of Periyar river & Ernakulam kayal		
	<b>Cheranallor</b>			Banks of Periyar river, Varapuzha		
	<b>Edapally North</b>			Banks of Periyar river, Varapuzha & Edapally thodu	Low	
	<b>Eduppally South</b>			Banks of Periyar river, Eroor thodu & Broad flat bottom valleys (Paddy fields) Punnuruthi, Palarivattom	Low	
	<b>Ernakulom</b>			Banks of Ernakulam kayal		
	<b>Elankulom</b>			Banks of Ernakulam kayal & Broad flat bottom valleys (Paddy fields) Kadavantara, Elankulam, Kallor		
	<b>Poonithura</b>			Banks of Eroor thodu & Broad flat bottom valleys (Paddy fields) Punnuruni, Karanakkod, Kallur		
	<b>Maradu</b>			Banks of Kaithapuzha kayal, Nettur thodu & Broad flat bottom valleys (Paddy fields) Nettur, Maradu, Thripunithura, Kundannur	Low	
	<b>Kumbalam</b>			Banks of Kaithapuzha kayal & Nettur thodu		
	<b>Manakunnam</b>			Banks of Kaithapuzha kayal & Pan Ar		
<b>Amballur</b>			Banks of Pan Ar & Broad flat bottom valleys (Paddy fields) Mambazha, Puduvassei, Kannjiramattom, Amballur, Chettikkod	Low		

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

	<b>Keecherry</b>			Banks of Pan Ar & Broad flat bottom valleys (Paddy fields) Kattukunnu, Mambazha, Keecheri		
	<b>Kulayettikara</b>			Broad flat bottom valleys (Paddy fields) Kulayettikara, Padinjattu, Tottara		
	<b>Kaipattur</b>			Banks of Muvattupuzha river & Broad flat bottom valleys (Paddy fields) Mangadapally, Tirumariyur, Tottur, Kaipattur	Low	
	<b>Edakkattuvayal</b>			Broad flat bottom valleys (Paddy fields) Veliyanad, Edakkattuvayal, Paravakad, Uzhakkod, Kanjiramattom		
	<b>Mulanthuruthy</b>			Banks of Pan Ar & Broad flat bottom valleys (Paddy fields) Perumballi, Palace mukku, Mulanthuruthy, Turuttikara, Pulikkamalli	Low	
	<b>Kanayannur</b>			Banks of Mamala thodu & Broad flat bottom valleys (Paddy fields) Talakkodu, Kanayannur	Low	
	<b>Kureekad</b>			Banks of Pan Ar, Mamala thodu	Low	
	<b>Thekkunobhagom</b>			Banks of Kaithapuzha kayal & Pan Ar	Low	
	<b>Nadamel</b>			Banks of Pan Ar, Eroor thodu & Tripunithura thodu	Low	
	<b>Thiruvankulam</b>			Banks of Pan Ar, Eroor thodu Mamala thodu	Low	
	<b>Kakkanad</b>			Banks of Kadambarayar & Broad flat bottom valleys (Paddy fields) Tengod, Kakkand		
	<b>Vazhakkala</b>			Banks of Kadambarayar & Broad flat bottom valleys (Paddy fields) Edapally, Tuidiyur, Kakkand		
<b>Thrikkakara N</b>			Banks of Periyar river & Broad flat bottom valleys (Paddy fields) Vadakkod,,Nalakov, Perungazha, Pallilam, Thrikkakara			
<b>MUVATTUPUZHA</b>	<b>Maneed</b>			Banks of Muvattupuzha river & Broad flat bottom valleys (Paddy fields) Pambra, Maneed, Neechur, Vettuthura		
	<b>Piravam</b>			Banks of Muvattupuzha river & Perumbadavam thodu	Low	
	<b>Elanji</b>			Banks of Perumbadavam thodu & Broad flat bottom valleys (Paddy fields) Marangelly, Muttalapuram, Valumala	Moderate	
	<b>Onakkur</b>			Banks of Valiya thodu & Broad flat bottom valleys (Paddy fields) Periyapuram, Pambakuda, Onakur	Low	
	<b>Ramamangalam</b>			Banks of Muvattupuzha river		
	<b>Memury</b>			Banks of Muvattupuzha river		
	<b>Valakom</b>			Banks of Muvattupuzha river & Kuriya thodu	Low	
	<b>Marady</b>			Banks of Muvattupuzha river & Todupuali Ar	Low	>3
<b>Thirumarady</b>			Banks of Valiya thodu, Kavalamattom thodu & Broad flat bottom valleys	Low		

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

			(Paddy fields) Manthur, Kakur, Thirumarady, Oliyapuram		
	<b>Koothattukulam</b>		Broad flat bottom valleys (Paddy fields) Kuthattukulam, Idayar, Kizhakombu, Vadakara	Moderate	
	<b>Palakuzha</b>			Low	
	<b>Arakkuzha</b>		Banks of Todupuali Ar Broad flat bottom valleys (Paddy fields) Tottakkara, Pandapilli, Arakuzha	Low	
	<b>Muvattupuzha</b>		Banks of Muvattupuzha river, Todupuali Ar & Broad flat bottom valleys (Paddy fields) Anikod, Avali	Low	
	<b>Velloorkunnam</b>		Banks of Muvattupuzha river & Broad flat bottom valleys (Paddy fields) Vazhapally, Mudavur	Low	
	<b>Mulavur</b>		Broad flat bottom valleys (Paddy fields) Thirukulathur, Punnapadi, Paipira. Mulavur	Low	
	<b>Enanalloor</b>		Banks of Muvattupuzha river & Broad flat bottom valleys (Paddy fields) Karimattom, Puthur, Ayavana, Putiatanam, Enanalloor	Low	
	<b>Manjalloor</b>		Banks of Todupuali Ar & Broad flat bottom valleys (Paddy fields) Mudapannur, Manjallur, Vadakkod	Low	
	<b>Kalloorkad</b>		Broad flat bottom valleys (Paddy fields) Kallurkad, Nagapuzha, Thazhavamkunnu	Low	
<b>KUNNATHUNAD</b>	<b>Thiruvaniyoor</b>		Broad flat bottom valleys (Paddy fields) Vattakuzhi, Chemmand, Chettanikara, Talakkod, Thiruvaniyur		
	<b>Puthencruz</b>		Banks of Mamala thodu & Broad flat bottom valleys (Paddy fields) Ambalamukal, Kanjirakad, Kuzhikkad, Brahmapuram, Muttam		
	<b>Kunnathunad</b>		Banks of Kadambarayar & Broad flat bottom valleys (Paddy fields) Kumarapuram, Erumeli, Marakala, Peringala	Low	
	<b>Kizhakkambalam</b>		Banks of Kadambarayar & Broad flat bottom valleys (Paddy fields) pazhangand, Malayidamthuruth, Maliyekalpadi, Edathala, Ambunad		
	<b>Pattimattom</b>		Banks of Kadambarayar & Broad flat bottom valleys (Paddy fields) Chelakualm, Churakod, Erapanpara, Chengara, Kaithakad, Pulichod,		
	<b>Aikaranad North</b>		Banks of Muvattupuzha river & Broad flat bottom valleys (Paddy fields) Ezhipuram, Pangod, Koalancheri,		
	<b>Vadavucode</b>		Broad flat bottom valleys (Paddy fields) Vaduvakode		
	<b>Aikaranad South</b>		Banks of Muvattupuzha river & Broad flat bottom valleys (Paddy fields) Pariyaram, Vadayambad, Kolancheri, Temmanimattom	Low	
	<b>Mazhuvannoor</b>		Broad flat bottom valleys (Paddy fields) Kodainad, Nellina, Akkampara	Low	

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

	<b>South</b>			thodu, Mazhavannoor,		
	<b>Irapuram</b>			Broad flat bottom valleys (Paddy fields) Manur, Kuzhur, Tirukulathur,	Low	
	<b>Arakkapady</b>			Banks of Kadambarayar & Broad flat bottom valleys (Paddy fields) Vengola E, Vengola W, Arakkapady	Low	
	<b>Vazhakkulam</b>			Broad flat bottom valleys (Paddy fields) Ezhipram S, Vazhakulam		
	<b>Manampilly</b>			Banks of Periyar river		
	<b>Vengola</b>			Broad flat bottom valleys (Paddy fields) Panjaserri, Tandikkad, Vengolla, Pallipuram, Udayankuzhipadam	Low	
	<b>Rayamangalam</b>			Broad flat bottom valleys (Paddy fields) Pul;luvazhi, Kizhillam, Vaikara, Rayamangalam, Kurupampadi		
	<b>Asamannoor</b>			Broad flat bottom valleys (Paddy fields) Mettala, Ekunnam, kadungaanm, Asamannoor, Panachiam, Cherukunnam	Moderate	
	<b>Vengoor</b>			Broad flat bottom valleys (Paddy fields) Mekkapala, Nedungapra, Vengur, Kodampzilly		
	<b>Vengoor West</b>			Broad flat bottom valleys (Paddy fields) Elambakipalli, Vaniyapilli		
	<b>Perumbavoor</b>			Banks of Maravetti thodu, Perumbavoor thodu & Broad flat bottom valleys (Paddy fields) Irungal, Punnur	Low	
	<b>Chelamattam</b>			Banks of Periyar river		
	<b>Koovappady</b>			Banks of Periyar river, Maravetti thodu & Broad flat bottom valleys (Paddy fields) KOovapady Aimuri, Kurumbaserri, Puppani		
	<b>Kodanad</b>			Banks of Periyar river		
<b>Kombanad</b>			Banks of Periyar river & Broad flat bottom valleys (Paddy fields) Kozhikottukulangara, Paneli, Kumbanad, Pudumana			
<b>ALUVA</b>	<b>Aluva East</b>			Banks of Periyar river & Broad flat bottom valleys (Paddy fields) Chunganveli, Edayapuram, Edathala, Maliyekalpadi	Low	
	<b>Aluva West</b>			Banks of Periyar river	Low	
	<b>Chengamanad</b>			Banks of Periyar river	Low	
	<b>Chowwara</b>			Banks of Periyar river & Puliampalli thodu		
	<b>Nedumpasserri</b>			Banks of Periyar river, Kottakulangara thodu & Broad flat bottom valleys (Paddy fields) Parambuserri, kariyattu, Turuthuserri, Naduvannur		
	<b>Angamali</b>			Banks of Puliampalli thodu & Broad flat bottom valleys (Paddy fields) Nayathodu, Angamali, Chambannur, Pichanikad		
	<b>Parakkadavu</b>			Banks of Chalakudi river		



## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

	<b>Karukutty</b>			Banks of Chalakudi river Broad flat bottom valleys (Paddy fields) Karayamparambu, Karukutti, Azhakam, Edakunnu	Low	
	<b>Mukkannur</b>			Broad flat bottom valleys (Paddy fields) Mulpara, Azhakam, Vattakad, Mukannur, Kokunni	Low	
	<b>Thuravoor</b>			Broad flat bottom valleys (Paddy fields)Vengoor, Kidangur, Kothakulangara		
	<b>Kalady</b>			Banks of Puliampalli thodu & Broad flat bottom valleys (Paddy fields) Piravur, Mator, Thotakaom, Manikkamangalam		
	<b>Vadakkumbhagom</b>			Banks of Periyar river		
	<b>Thekkumbhagom</b>			Banks of Periyar river		
	<b>Kizhakkumbhagom</b>			Banks of Periyar river		
	<b>Mattoor</b>			Banks of Periyar river		
	<b>Manjapra</b>			Banks of Kotayi thodu & Broad flat bottom valleys (Paddy fields) Sankarankuzhi, Anapara, Naduvattom,Manjapra		
	<b>Malayatur</b>	Low (Kurisumudi, Kolparamudi, RF)		Banks of Periyar river		3.5
	<b>Ayyampuzha</b>	High (Anakuzhikavala, Forest) Low (AthirapalliEstate, Tattupara,Chulli,Kunthirikkamudi ,Forest)		Banks of Periyar river		
<b>KOTHAMANGALAM</b>	<b>Kottapadi</b>			Broad flat bottom valleys (Paddy fields) Pilamudi, Chinikuzhi, Airur, Cheranganal, Kottapadi	Moderate	
	<b>Trikariyoor</b>			Broad flat bottom valleys (Paddy fields) Vadaserri, Panipara, Ayikod, Tenkulam, Thrikariyoor, Ilampra	Moderate	
	<b>Iramalloor</b>			Broad flat bottom valleys (Paddy fields) Kutillangai, Nellikuzhi, Venduvazhi, Cheruvathur	Low	
	<b>Kothamangalam</b>			Banks of Kothamangalam Ar & Broad flat bottom valleys (Paddy fields) Kallad, Ramallur, Kumbalathurai	Moderate	
	<b>Varapetty</b>			Banks of Kothamangalam Ar & Broad flat bottom valleys (Paddy fields)	Low	

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

			Varapetti, Inchur, Kozhipally, Vidavur, Pallarimangalam, Mayilin		
<b>Pothanikadu</b>			Banks of Kothamangalam Ar & Broad flat bottom valleys (Paddy fields) Pallarimangalam, Pottankad, Puliathanam,	Low	
<b>Kadavoor</b>	Low (Tiyeriyamudi)		Banks of Kaliyar puzha & Broad flat bottom valleys (Paddy fields) Naduvakkad, Kadavoor, Chathamattom	Moderate	
<b>Neriyamangalam</b>	High(Tusiraparama la, RF) Low (Chenpankuzhi. Maniyanpara, Neriyamangalam, Talakkad,Forest)		Banks of Periyar river, Kothamangalam Ar & Broad flat bottom valleys (Paddy fields) Tallakkad, Nagaramudi, Thodikulam	Moderate	
<b>Kuttamangalam</b>	Low (Perumannur)		Banks of Kothamangalam Ar & Broad flat bottom valleys (Paddy fields) Unnukal, Nellimattom	Moderate	
<b>Keerampara</b>	Low (Panichamudi, Punnakkad)		Banks of Periyar river & Broad flat bottom valleys (Paddy fields) Chenkara, Punnakd, Nadukani, Keerampara, Perumanoor	Moderate	
<b>Pindimana</b>			Banks of Periyar river & Broad flat bottom valleys (Paddy fields) Pindimana, Malipara, Chelad	Moderate	
<b>Kuttunpuzha</b>	High (Mamalakunnam, Penavur,Puttukudi, Forest) Low (Ilambacheri,Urula nthani,Nayapally,K uthiramudi,Mettana para Forest)		Banks of Periyar river & Puyankutti river	Moderate	2.5, 2.5, 3

ANNEXURE 25

**DAM INVENTORY**

<b>IDAMALAYAR DAM</b>		
1	Type	Gravity dam
2	Composition	Concrete
3	Purpose	Hydro Electric Project
4	Ayacut area	
5	Catchment area (Km <sup>2</sup> )	380.79 KM <sup>2</sup>
6	Location	Idamalayar, Kothamangalam (T), Ernakulam (Dist)
7	Basin	Periyar
8	Sub-basin	Idamalayar River
9	Longitude	76°42'30"
10	Latitude	10°13'15"
11	Crest level ( m )	+161.00 m
12	Maximum Water Level(m)	+171.20 m
13	Full Reservoir Level (m)	+169.00 m
14	Dead Storage Level (m)	+115.00
15	Water Spread Area (km <sup>2</sup> )	28.3 KM <sup>2</sup>
16	Dead storage (MCM)	72.0 MCM
17	Spillway Length	11.5m x4Nos
18	Spillway gates (Nos)	4 Nos(radial)
19	Spillway type	Ogee
<b>BHOOTHATHANKETTU BARRAGE</b>		
1	Type	Barrage
2	Composition	Masonry Barrage with vertical operation shutters
3	Purpose	Irrigation, Drinking water supply, salinity control
4	Ayacut area	32800Ha
5	Catchment area (Km <sup>2</sup> )	3048Sq.Km
6	Location	About 12 KM North East of Kothamangalam and about 48KM East of Aluva
7	Basin	Periyar
8	Sub-basin	Nil
9	Longitude	76°40'00" E
10	Latitude	10°08'16" N

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

11	Crest level ( m )	Central Pan +24.59m(3Nos) side spam +25.81 m(6Nos) each on both sides
12	Maximum Water Level(m)	+34.95 m
13	Full Reservoir Level (m)	+34.95 m
14	Dead Storage Level (m)	+24.59 m
15	Water Spread Area (km <sup>2</sup> )	16.40 Sq.km
16	Dead storage (MCM)	Nil
17	Spillway Length	No spillway, Length of Barrage at crest level is 210.92 m
18	Spillway gates (Nos)	NA
19	Spillway type	NA



**GOVERNMENT OF KERALA**

*Abstract*

Disaster Management Department – District Disaster Management Authority (DDMA) plan of all Districts - Approved – Orders issued.

**DISASTER MANAGEMENT (REVENUE-K) DEPARTMENT**  
**G.O(Rt)No.3104/2016/DMD**                      **Dated, Thiruvananthapuram, 30<sup>th</sup> July, 2016**

Read:- Kerala State Disaster Management Authority (KSDMA) meeting held on 05.10.2015.

**ORDER**

Government are pleased to approve the District Disaster Management Authority (DDMA) plan for all districts as detailed below.

<b>District Disaster Management Authority (DDMA) plans</b>			
<b>Sl No</b>	<b>District</b>	<b>DDMA meeting held</b>	<b>Approved date and number</b>
1	Thiruvananthapuram	06/06/15	H1-61143/13 dated 10/06/15
2	Kollam	13/07/15	N3/43962/2014 dated 08/09/15
3	Pathanamthitta	18/02/15	DM 5-31232/ 2014 dated 09/03/2015
4	Alappuzha	03/02/15	DMC4-36601/13 dated 27/02/15
5	Kottayam	17/04/15	H8-2015/15202/5 dated 06/04/15
6	Idukki	13/03/15	E6-38176/07 dated 28/03/2015
7	Ernakulam	15/05/15	D1-19839/11 dated 10/07/15
8	Thrissur	04/02/15	K1-4574413 dated 02/03/15
9	Palakkad	30/12/14	J5-2014/20799/9 dated 20/02/15
10	Malappuram	20/02/15	DM1-42817/2014 dated 13/05/15
11	Kozhikkode	20/04/15	F3/56353/2014 dated 20/04/15

## DISTRICT DISASTER MANAGEMENT PLAN – ERNAKULAM 2015

12	Wayanad	21/02/15	H3-2014/21178/12 dated 25/02/15
13	Kannur	12/02/15	M1/39606/2014 dated 21/02/15
14	Kasargode	24/04/15	K1/61131/2010 (2) dated 28/04/15

(By Order of the Governor)  
Praveen S.  
Deputy Secretary to Government.

To

All Chairmen, DDMA (inter alia District Collectors)  
Thiruvananthapuram / Kollam / Pathanamthitta / Alappuzha / Kottayam /  
Idukki / Ernakulam / Thrissur / Palakkad / Malappuram/ Kozhikode/  
Wayanad/ Kannur/Kasargode  
The Commissioner of Land Revenue, Thiruvananthapuram  
The Member Secretary, Kerala State Disaster Management Authority,  
Revenue Complex, Public Office Building, Thiruvananthapuram.  
The Head, State Emergency Operations Center, ILDM, PTP Nagar,  
Thiruvananthapuram.  
The Principal Accountant General (Audit) Kerala, Thiruvananthapuram  
The Accountant General (A&E) Kerala, Thiruvananthapuram  
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PS to Minister (Revenue & <sup>Housing</sup> ~~Coir~~)  
PS to Principal Secretary (Revenue & DM)  
The Information Officer, Web & New Media, I&PRD

Forwarded/By Order,

  
Section Officer

