

District Disaster Management Plan Idukki 2015



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Idukki District Disaster Management Plan

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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.

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
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 14th June 2013 has authorized State Emergency Operation Centre, formerly HVRA Cell (Research & Technical Laboratory of KSDMA) to revise the District DM Plans 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- a dynamic component and a 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 a year in the meeting convened by DDMA. 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 under:

- a) Mock drills
- b) Recommendations from all Departments in DDMA meeting
- c) Past disaster experiences
- d) Directions issued from State Disaster Management Authority

HAZARD, VULNERABILITY AND RISK ASSESSMENT

TABLE 2: DISTRICT PROFILE AT A GLANCE

Head quarters	Painavu
Total area(district)	436328 hectares (5087 Sq Km)
District boundaries	East -Madurai District of Tamil Nadu State ,West - Ernakulam and Kottayam Districts., South -Pathanamthitta District, North -Trichur and Coimbatore Districts

TABLE 3: ADMINISTRATIVE DIVISIONS OF THE DISTRICT

Revenue divisions	2
Taluks	5
Blocks	8
Villages	64
District Panchayaths	1
Gram Panchayaths	51
Municipalities	1

ANNEXURE 1

TABLE 4: GEOGRAPHY AND TOPOGRAPHY

Major Rivers	2 (Total-7)
Reservoirs	18
Forest	2713.7226 Ha
Wetland area	5699.06 Ha
Barren & Uncultivable land	1963

TABLE 5: DEMOGRAPHY OF THE DISTRICT

Total population	1108974		
Male	552808		
Female	556166		
Sex ratio	1006		
Age group population (0-6 years)	105641		
Population density	254		
Rural Population	Total	Male	Female
	1056929	527245	529684
Urban Population	Total	Male	Female
	52045	25563	26482

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

Decadal growth rate	-1.93		
Literacy rate	Total	Male	Female
	92.2	94.84	89.59

TABLE 6: EDUCATION OF THE DISTRICT

Institution	Total numbers
Lower Primary	250
Upper Primary	78
High Schools	140
Vocational H.S	16
Technical High Schools	4
University	0
Arts & Science college	19
Poly Techniques	6
Engineering College	4

ANNEXURE 2

TABLE 7: AGRICULTURE PROFILE OF THE DISTRICT

Crops	Type	Area (in Ha)	Productivity (in tonnes)
Staple crops	Rice-Virippu	441.85	2.408
	Rice-Mundakan	635.2	2.507
Vegetable			
Plantation crops	Rubber (Dry rubber)	36293	2.033
	Cashew (raw nuts)	394	0.339
Oil seeds	Coconut	10167.7	5537 nuts/ha
Spices	Pepper (dry)	53231.5	0.528
	Cardamom(processed)	42853	0.28
	Ginger (cured)	2034.5	5.09
	Turmeric (cured)	566.7	3.08
	Nutmeg	1599	0.526
	Garlic	75	5.5

TABLE 8: ANIMAL HUSBANDRY

Livestock Population	Cattle-148941, Buffalow-2525, Goat 139269
Number of Cattle farms	185
Poultry Population	Productivity in tonnes
Number of Poultry farms	141

TABLE 9: FESTIVALS AND TOURIST PLACES IN THE DISTRICT

Festivals	Tourist Centres	Places
Mangaladevi Temple	Munnar	Mattupetty
Anachal Temple	Eravikulam National Park	Eravikulam National Park
Makaravilaku(pullumedu)	Marayoor	
	Thommankuthu	Cheeyappara & Valara Water falls
	Periyar Wildlife Sanctuary	Thekkady
	Ramakalmedu	Pullumedu
	Iukki Arch Dam	Vagamon
	Chinnar Wildilfe sanctuar	

TABLE 10: OCCUPATIONAL DETAILS

Sl.No.	Type of Workers	Total No.
1	Total Workers	3,89,136
2	Cultivators	75,392
3	Agricultural labourers	86,030
4	Cottage and household industries	4,437
5	Other works	2,20,783
6	Marginal Workers	39,470
7	Non-workers	6,84,390

2.1 HAZARD PROFILE OF THE DISTRICT

2.1.1 WATER AND CLIMATE RELATED DISASTERS

FLOODS:

Flash flood occurs during South West Monsoon during every year in Idukki District. Flash flood prone areas in Idukki District are low range of the district and Vandiperiyar town. Flash flood occurs in these areas due to continuous heavy rain occurs every monsoon season.

TABLE 11: FLOOD PRONE AREA IN THE DISTRICT

District	Taluk	Area Km²	Area %
Idukki	Idukki	38.78	0.89
	Devikulam	0.00	0.00
	Thodupuzha	26.87	2.10
	Udumbanchola	11.35	1.30
	Peermadu	0.00	0.00

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TABLE 12: FLOOD PRONE AREAS OF IDUKKI DISTRICT IN DETAIL

Taluk	Village	Flood prone area
Thodupuzha	Kumaramangalam	Broad flat bottom valleys (Paddy fields) Ezhallur, Kothamanagalam, Perumbilichira
	Kodikulam	Banks of Kaliyar Puzha, Karimannur thodu & Broad flat bottom valleys (Paddy fields) Kodikulam, Parapuzha
	Vannapuram	Banks of Kaliyar Puzha & Broad flat bottom valleys (Paddy fields) Vannapuram, Mulankuthi
	Udumbannoor	Banks of Kaliyar Puzha & Broad flat bottom valleys (Paddy fields) Kollapuzha, Tattakuzha, Edamaraku, Udumbannur, Chinikuzhi, Paniyaram, Amayappara
	Neyyassery	Banks of Kaliyar Puzha & Broad flat bottom valleys (Paddy fields) Neysseri, Malappuram
	Karikode	Banks of Karimannoor thodu & Broad flat bottom valleys (Paddy fields) Pallikkamuri, Manakaithandu, Karimannur
	Thodupuzha	Banks of Thodupuzha Ar & Alakkode thodu
	Manakad	Banks of Thodupuzha Ar & Broad flat bottom valleys (Paddy fields) Mudalakandam, Kolani
	Purapuzha	Banks of Thodupuzha Ar & Broad flat bottom valleys (Paddy fields) Periyambra, Pudupariyaram
	Karimkunnam	Broad flat bottom valleys (Paddy fields) Vengallur, Vazhitala, Purapuzha
	Muttom	Broad flat bottom valleys (Paddy fields) Vadakkumuri, Mrala
	Velliamattom	Broad flat bottom valleys (Paddy fields) Tudanganad
	Idukki	Broad flat bottom valleys (Paddy fields) Ancheri, Kurichi
	Chinnakanal	Banks of Panni Ar
	Pooppara	Banks of Panni Ar & Broad flat bottom valleys (Paddy fields) Rajakumari
Udumbanchola	Rajakumari	Broad flat bottom valleys (Paddy fields) Rajakkad
	Rajakad	Mullakanam
	Konnathady	Broad flat bottom valleys (Paddy fields) Parahode
	Kathipara	Banks of Chemman Ar
	Chathurangapara	Banks of Panni Ar
	Parathodu	Banks of Chemman Ar
	Upputhodu	Banks of Irattayar
	Thankkamony	Broad flat bottom valleys (Paddy fields) Padamukham, Vattikudi
	Anakkara	Broad flat bottom valleys (Paddy fields) ValiyaKandan, Vellayamkudi
Peermade	Vagamon	Broad flat bottom valleys (Paddy fields) KocharaAr
	Upputhara	Broad flat bottom valleys (Paddy fields)Chakkupalam
	Elappara	Broad flat bottom valleys (Paddy fields) Kachiyar

CYCLONE:

There are two types of cyclones seasons. The first is the pre monsoon season (April and May) and the second is post monsoon (October –December). The cyclones of the post monsoon season are more intense than those of pre monsoon. Cyclones are associated with strong winds, torrential rains and storm surge

THUNDER AND LIGHTNING:

Lightning has become a major cause of concern as far as loss of life and property is concerned. In addition to causality to people, incidence of damage to property, mortality to cattle etc is numerous. Most of the damage to property goes unreported. The number of lightning strikes to overhead cable networks like power, telephone, television cable and the like are higher because of the larger probability of incidences to such networks spread over a wide area. Many times lightning affects the communication system. Agricultural loss due to loss of trees is also reported. Most lightning deaths and injuries occur when people are caught outdoors in the months of April –May and October –November, during the afternoon and in the evenings.

DROUGHT:

Drought is an insidious natural hazard that results from the departure of precipitation from expected or normal that, when a season or longer period of time extended over, is insufficient to meet the demands of human, plant and animal activities. Drought is a slow onset disaster. Several parts of Kerala face drought from time to time. Kerala gets 68% of its rainfall during southwest monsoon and 17% during north east monsoon and remaining 15% as summer rains. A deviation in the rainfall pattern leads to drought situation in the state.

2.1.2 GEOLOGICALLY RELATED DISASTERS

EARTHQUAKES:

An Earthquake is a series of underground shock waves and movements on the earth “surface caused by natural processes within the earth “crust. Earthquake is a sudden onset hazard. They occur any time of the year, day or night, with sudden impact and without any warning sign. Extensive research has been conducted in recent decades, but there is no accepted method of earthquake prediction as on date. Earthquake hazards can be categorized as either direct hazards or indirect hazards. The direct hazards are ground shaking, differential ground settlement, soil liquefaction, immediate landslides or mud slides, ground lurching and avalanches, permanent ground displacement along faults, floods from tsunamis or seiches. The indirect hazards include dam failures, pollution from damage to industrial plants, delayed landslides etc.

Idukki district is comes under zone 3 of earthquake susceptibility. The scientific informations like earthquake susceptible district map are given below

TABLE 13: EARTHQUAKE VULNERABILITY AREA OF IDUKKI

Taluk	Village	Earthquake(Magnitude)
Thodupuzha	Muttom	>3
	Alackode	>3
Devikulam	Kottakamboor	5
	Vattavada	5
Udumbachaola	Bisonvalley	5.7
	Chinnakanal	5.7
	Upputhodu	4.1
	Thankkamony	3.4 –4.5
Peermade	Vathikudy	3.4 –4.5
	Elappara	>3
	Mlappara	>3

TABLE 14: DETAILS OF EARTHQUAKES IN IDUKKI DISTRICT AND NEARBY VICINITY FROM 1900S ONWARDS

Date	Location	Remarks
07 June 1988	Kalar-Idukki area, Kerala	Three events recorded, largest magnitude Ms 4.5
12 Dec 2000	Idukki-Kottayam area, Kerala	Local magnitude (ML) of 5.0, felt strongly in Kochi, Idukki, Kottayam, Alapuzha and Ernakulam
07 Jan 2001	Idukki-Kottayam area, Kerala	Felt throughout southern Kerala and adjoining parts of Tamil Nadu, local magnitude (ML) of 4.8

LAND SLIDE

Landslides are a serious geological hazard common in hilly regions. Idukki district is most susceptible to landslides during monsoon season, especially south west. Idukki District is located at an altitude of 2000 ft above MSL and spread across 5087 Sq. Km. It causes extensive damage to roads, bridges, human dwellings, agricultural lands, orchards, forests etc resulting in loss of property and life as well. The causative factors attributing to landslide events are as following:

- Steep cutting made for road/building construction results in debris/ earth fall and slide due to increase in pore water pressure during very heavy rainfall (average annual rainfall of 3300mm)
- Presence of dense trees along the edge or crown of the cut slopes resulted in increase of load at marginally stable cut face
- Unscientific land use practices such as terracing, culverts and contour bunding
- Blockage of natural drainage courses for the purpose of settlements
- Human activities like deforestation, water logging etc. in sloped areas for cultivation,

blockage to small streams, unscientific farming methods, and quarrying activities

Economical degradation of hill areas has also been on the increase due to greater frequency of occurrence of landslides. A forestation is an important measure for the prevention of occurrence of landslides. Since water logging increases the hazard, it is necessary to drain the surface water to the lower areas using stone pitched graded bunds and diversion channels. Construction of houses and shops should be avoided in sloping regions.

Landslide hazard zone mapping is a relatively new tool being used for landslide forecasting and forewarning. Landslide prone areas are to be delineated by integrating multiple database like topographical and geographical map, ground truth, remote sensing data and the geo-technical investigations.

It is necessary to create public awareness about landslides and preventive methods. Also, measures should be taken to relocate the public from landslide prone areas to safe locations during the season of South West Monsoon.

The State Government’s scheme namely “Landslide Stabilization Scheme” through which soil conservation measures are to be taken by afforestation and construction of stone pitched graded bunds.

TABLE 15: LANDSLIDE PRONE AREA IN IDUKKI DISTRICT

Taluk	Village	Landslide Prone Areas
	Kumaramangalam	
	Kodikulam	
Thodupuzha	Vannappuram	High (Vannapuram, Forest) Low (Amailakandam, Thommankuthu, Vannapuram, Forest)
	Kanjikuzhy	High (Thottakani, Kirithod, Chelachvada, Kanjikuzhi, Forest)
		Low (Varikkamuttom, Pazhayerikandam, Mailapuzha, Churuli, Forest)
	Udumbannoor	High (Chirikuzhi, Venniyanimudi, Mannukadu, Peringaserri, Forest) Low
		(Tattakkuzha, Vellamthanam, Kuzhimattom, Cheppukulam, Forest) Low (Forest)
	Neyyassery	
	Karimannoor	
	Karikode	
	Todupuzha	
	Manakkad	
	Purappuzha	Low (Kurinji, Toyipara)
	Karimkunnam	Low (NellaparaOttallur, Ilayarimala)
	Muttom	High (Kollankunnu, Kuzhiyanai, Tudonganad)

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		Low (Kanayamala,Kollankunnu)
	Alacode	High (Ilamdesam,Kondilapalli) Low(Vettimattom,Onnaramala)
	Velliamattom	High (ParambukaduMala,Pumala, Velliyamattom,Forest) Low (Mudiyamala,Kuvakandam,)
	Arakulam	High (Mulamattom,Nadukanimala,Tumbikkalmala)
	Kudayathoor	High (Kudayattoormala, anakunnumudimala)
	Elappally	High (Edad,Chellikkal) Low (Kannikal,Manapad)
Idukki	Idukki	High (Painavu,Karara,Forest) Low (Kulamavu,Tadiyampadu,Forest)
	Kanjikuzhy	High (Thottakani, Kirithod, Chelachvada, Kanjikuzhi, Forest) Low (Varikkamuttom, Pazhayerikandam, Mailapuzha, Churuli Forest)
	Konnathady	High (kambilikandam, Chinnar, Panikkankudi,) Low(Mullirikudi, Parathodu, Mukkudam, Injapatal, Ponmudi)
	Upputhode	High (KarikkumMedu) Low (RajamudiUpputod)
	Mannamkandam	High (Ayiram Acre,Chattupara,Machiaplavukudi Forest) Low (Machiplavu, Deviarcolny, Forest)
Devikulam	Mankulam	High (Mankulam, Forest) Low (Anakulam,Perumbamkuthu, Forest)
	Anaviratty	High (Kallavattayar,KallarEstate, KainakarEstate) Low(TaliyamEstate, PlamalaEstate)
	Vellathooval	High (Kallarkutti,Elakunnu, Forest) Low (Vellathuval,Mankadav,Forest)
	Kunnjithanny	High (Elakallu,KunjithaniTukupara) Low (AnachalChengalam)
	Pallivasal	High (PallivasEstate,Mincutcolony) Low (PallivasalEstate,Chithirapuram)
	Kannan Devan Hills	High (Munnar, Devikulam Estate, Kallar Estate, Mattupetti Estate, Valkadavu Estate, Kadalar Estate, Forest)
	Marayoor	High (Kudakkad, Forest) Low (Marayur,Pattikadu,Karumutti, Forest)
	Keezhanthoor	High (Vananthurai,Kolattamala,Chundakattumala, Forest) Low (Kilandur,Punganpalli, Forest)
	Kanthalloor	High (Kolachivayal,Puthur,kanthallur, Forest)
	Kottakamboor	High (Thattumpera,Kadavari, Kattamboor,Forest)
	Vattavada	High (Kovilur,Vattavada,Pattithalaichelimala, Forest)
	Bisonvally	High (PallivasalEstate,PeriyakanalEstate,Korangupara) Low (MunnurekkarEstateMuduvakodu,Bisonvalley)
Udumbanc	Chinnakanal	High (Nadupara,PeriyakanalEstate,NagamalaEstate,)
	Poopara	High (Mullantandu,PanniyarEstate, Forest) Low (Pupara,koranpara, PanniyarEstate)
	Rajakumari	High (Manjakuzhi,Mullantand, PeriyakanalEstate) Low

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		(KumbaparaEstate, PeriyakanalEstate)
	Rajakadu	Low (Rajakkad,Ennarsiti,kanakapulla,Panniyarkutti)
	Udumbanchola	Low (Tinkalkadu Estate, Attupara Estate, Elappara Estate, Vallarakkan Estate, Leshmi vilasom Estate)
	Kanthipara	Low (GandhiparaEstate, Kuttankal)
	Santhanpara	High (NadupaniEstate) Low (Ilayakod Estate, Apparpullu Estate, KalliparaEstate)
	Chadhuramga para	High (Talayankavu Estate)
	Parathodu	High (IsvarimedEstate,Nainarmudi) Low (Nedumkandam,AsokavanamEstate, ValparaEstate)
	Kalkoonthal	Low (Ponnamala,Ittithoppu,Kumbanmala)
	Thankamany	
	Kattappana	High (TankamanyChattikuli,Idukki,Nayarupara) Low (Ampalamedu,Valiyakamakshi, Veliyakatumali)
	Pampadumpara	Low (Pampadumpara Estate, Chakkakanam, Kallar, Mundiyeeruma)
	Karunapuram	Low (Kurivikkonam,Kulitholuv mala,Prakkadavu)
	Vandanmedu	Low (Anniyartolu, Puliyamala)
	Anakkara	Low (Pampumpara)
	Chakkupallam	Low (SitamparaEstate,ChakkupalamEstate)
	Ayyappancoil	High (TahsilparaEstate, Forest) Low (KarinkulamEstate,Kaltotti, Forest)
	Anavilasom	Low (TahsildarparaEstate,MadhavankanmEstate,)
	Vagamon	High (Vedikuzhi,AlampallyEstate) Low (Pulikanam Estate, Kotamala Estate, Chintala, Pasupara Estate, VagamonEstate)
Peermade	Elappara	High (AnnantambiMala, Theppakulam Estate, Glanmary Estate) Low (KoduvakaranamEstate,ThyfordEstate,)
	Kokkayar	High (UrumbikkaraEstate,MukkulamEstate,) Low (Puvali,BoyceEstate)
	Peruvanthanam	High
		(ChuzhuppilEstate, MeloramEstate, cheruvallikulam, Kanayang avayal,AmalagiriEstate) Low (OrkadanEstate,ManikalluEstate)
	Peermade	High (RanimudiEstate,PampanarMala,Forest) Low (Peermed,Forest)
	Manjumala	High (Kirikara, Forest) Low (Varayattumotta,PasuMalaEstate,ManjumalaEstate)
	Periyar	Low (ThankamalaEstate,Vandiperyar,NellikayEstate, Forest)
	Kumily	High (Forest) Low (Attapaam, MurukkadiEstate, Dymock, Chenkara, Vellaramkunnu, Forest)
	Mlappara	High (Periyar RF)

DAM BURSTS:

Idukki has large number of big and small dams. There are almost 14dams are in the district and some of it has more than 100 years of age. When constructing a dam we should consider environment and ecology because it is most crucial factor. In our district at the time of constructing many old dams there is no detailed study were conducted. The apt instance for this is Mullaperiyar dam.

MULLA PERIYAR DAM

The Mullaperiyar dam was constructed across the river Periyar in 1895 by the Madras Presidency for supply of Irrigation water to the plains of the Madras presidency under an agreement with Maharaja of Travancore. The dam had been constructed with “lime surki mortar” and was designed to hold a full reservoir level (FRL) of 152 feet for providing water to the parched plains of Tamil Nadu below through a tunnel from Thekkady.

The catchment area at the site is 624 Sq.km which lies between latitude 90 15“50”N - 90 40“00”N and longitude 770 07“10”E - 770 25“00”E.

TABLE 16: MULLAPERIYAR DAM DETAILS

Length	1200 ft (365.76 m)
Height	155 ft (47.24m)
Storage Capacity	443.23 mcm
Construction began	1887
Opening date	1895

In 1979 the government is insisted to maintain the water level of dam upto 136feet. The water level of 136 feet encompasses a total of 20.55 sq.km. If the water level is increased from 136 – 152 feet and area of 5.68 sq.km would be sub merged.

Dam failures can result in the worst flood events. A dam failure usually the result of neglect, poor design, or structural damage caused by a major event such as an earthquake. When a dam fails, a gigantic quantity of water is suddenly let loose downstream, destroying anything in its path.

EARTHQUAKE VULNERABILITY OF MULLAPERIYAR DAM

The Mulla periyar dam site lies in the Western coast of India in the state of Kerala. It lies in Seismic zone III as per the seismic zoning map of India where a maximum intensity of VII is

expected.

As per dam is more than 110 years old, constructed in stone masonry in lime surki mortar, it is envisaged that this old dam will be vulnerable under a future string earthquake in the region and in the eventuality of dam failure may result in human and economic losses.

The seismic hazard assessment has been carried out using deterministic as well as probabilistic approach. The safety of the dam has to be checked for Maximum Considered Earthquake condition.

Mullapperiyar Rehabilitation

The seismic activity in and around Idukki is more frequent and focuses on earthquake management and flooding in the case of dam failure. Hence, a Community Based Disaster Risk Management Plan (CBDRMP) was prepared by Kerala State Disaster Management Authority. The project will be implemented in two phases. In Phase I, fifty vulnerable wards coming under six Grama Panchayats situated near the stream between Mullapperiyar Dam and Idukki Dam will be covered with an estimated cost of Rs. 53, 00,000. The area situated in the downstream of Idukki dam will be covered in Phase II.

Project Vision: The communities living along the river side of Mullapperiyar develop skills and enhance knowledge to safeguard themselves from the impending risk of earthquake and dam failure.

The main objectives are:

- Sensitize and build awareness of people and community to take judicious steps to the impending risks associated with earthquake and dam failure.
- Strengthen community by building capacities to cope up with disasters and reduce its vulnerability
- Strengthen response capacity of local body administration and communities to effectively manage disasters
- Equip school children with skills to cope with disasters and its after effects.
- Strengthen psychosocial support system among individual, family and community

Regional Geology and Tectonic of the Region

The tectonic features near to the sites are the Periyar Fault, Ottapalam Kuttampuzha fault and Kattagadi Kokkal Palani Fault. There are several faults, shear zones and lineaments around the sites which are seismogenic and have to be considered for the seismic hazard assessment

Vulnerable areas in the bank of Periyar River

If a dam failure happens first it comes to Vallakadavu in Majumala Village. It will be diverted to three sub ways from Gavi via Pathanamthitta, Grampi via Peermadu and through existing Periyar River.

Vulnerable areas:

Periyar Village	Vandiperiyar Panchayt, PEriyar Town, Walardie, NEllimala, Vallakadavu Karuppu Bridge, Dymuck –Attaram Region.
Manjumala Village	Vandiperiyar Panchayt, West part of Periyar Town, Mlamala, Pasumala, part of Kurilikara, Pallikada Chandravanam, Nalukandam, Thengakal.
Elappara Village	Peermadu Panchayt, part of Mlamala, Keerikara
Elappara Village	elappara Panchayt, part of Mlamala- HEliberia, Vallakadavu
Upputhara village	Upputhara Panchayat, Chappathu, Parappu, aladi, Upputhara

Road Network

In NH 220 58th mile to Kumily will be inundated and not possible to transportation. Apart from that Vandiperiyar Bridge may collapse and people became alienated from other parts. To evacuate the people from affected area we need to adopt helicopters.

Vulnerability Assessment

The main affected area in Peermadu taluk area Periyar, Manjumala, Upputhara, Vagamon, Elappara, Peermadu, Malppara, Kumily villages. In Udumbanchola taluk there are Ayppankovil, Anavilasm villages are highly vulnerable due to floods by dam failure. The actual survey is not done in these area but there is chance to deviate the water flow from vallakkadavu to Gavi via Pathanamthitta. Due to this diversion there is a possibility to affect some area of Pathanamthitta, Kottayam, Ernakulam District also.

Firstly affected areas are Periyar, Upputhara, Manjumala, Peermadu, Elappara, Vagamon, Malappara, Kumily villages of highly populated area. In these area there almost 20,000 people are inhabited.

TABLE 17: PANCHAYATS THAT AREA VULNERABLE DURING HIGH FLOOD

Name of the Dam					
Dams	Idukki	Cheruthoni	Kulamavu	Kallar	Erattayar
Nearest Panchayath affected during floods	Vazhathopu	Vazhathopu	Arakulam	Nedumkandam	Erattayar

Impact on Human lives and livelihood

The Vandipeiryar in Idukki district is the first human inhabited area situated in the downstream of Mullaperiyar dam. Usually people living downstream are frightened with the rise in water level in Mullaperiyar lake. They strongly believe that it is a living threat to their life and property.

2.1.3 ACCIDENT RELATED DISASTERS

Wild Fire:

Forests face many hazards but the most common hazard is forest fire. During summer when there is no rain for months the forests become littered with dry senescent leaves and twigs which could burst into flames ignited by the slightest spark.

TABLE 18: WILDFIRE VULNERABLE AREAS IN THE DISTRICT

Sl.No.	Divison	Vulnerable areas
1	Marayoor Division	Theerthamal reserve, Koodakkatte reserve, SR-51, reserve, Vannanthura
		Sandal reserve, Karsanade, Chanalmede, VSR-1, VSR-2 and Missionvayal,
2	Munnar Division	Kaithachal in Malayattoor reserve, Thattekkanni, Choorakettan, Adit,
		Puthukudy, Kadakalle-Adimaly Range
		Nagamal, Kuttiyar, Kacheriland, Kablock, Plantations, Upper santose, Old
		Devikulam- Devikulam Range
		Kuttiyarvally, Maniyanpara, Cheeyapara, Nagarampara, Kuthupara, Valara,
		Villanchira, Muniyarachal, Adit IV, Varatumudy – Neriymangalam Range
		Anamudy, Edamalakudy, Pambanmala, Vayalkadavukudy- Munnar Range

TABLE 19: HISTORY OF FIRE OCCURRENCE

Sl. No.	Division	Range	Locality	Affected area(in Hecter)	Nature of Damage	Loss if any
1	Perilya East	Vallakkadavu	Thondiyar sec.	18 Ha	Grass land	Nil
2	Periyar East	Vallakkadavu	Dam site	7 Ha	Grass land	Nil

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3	Periyar East	Vallakkadavu	Thondiyar sec/ Watch tower	6 Ha	Grass land	Nil
4	Periyar East	Vallakkadavu	Vallakkadavusec Manamuttymedu	130 HA	Grass land	Nil
5		Adimaly	Tattekkanan Sec, Ponmudi Dam site			
6		Devikulam	Chinnakanal,			
7		Neriyamanagalam	Cheeyappara, Kampilaine,			
8		Munnar	Pampan mala			
9		Theerthamala, Karsanadu, Chanelmedu, VSR 1, Missionvayal		51 Ha		

FOREST FIRES:

Forest fire is the serious threat during the summer season in Idukki District. It also affects our ecosystem and also disrupts the habitat of the wild animals and may cause the extinction of some species. Forest fire is mostly due to carelessly throwing cigarette butts, by people. We can manage this forest fire by the active participation of the local people living in the vicinity of the forest. The local people should be the stakeholder for protecting our wild resources and then only we can protect our forest from frequent fire. The forest department also should be very vigilant in these seasons and can appoint local people as watchers and cleaned the fire areas before summer and periodically monitored.

TABLE 20: HAZARD SEASONALITY MAPPING OF THE DISTRICT

Disaster	J	F	M	A	M	J	J	A	S	O	N	D
Earthquake	←—————→											
Drought			←—————→									
Wild Fire			←—————→									
Lightning	←—————→									←—————→		
Flood						←—————→				←—————→		
Cyclone				←—————→								
Landslide						←—————→						
Epidemics			←—————→									
Road/water related accidents	←—————→											

2.2 CAPACITY ANALYSIS

The District possesses various resources and capacities which can be utilised both in the hour of emergency as well as normal situations. List of key resources/capacities available in the District with different departments/ agencies.

TABLE 21: CAPACITY ANALYSIS

Capacity/Resources	Number/Details		Further Details
District EOC	DEOC Idukki Collectorate. Control Room Ph.0486 2232242 Deputy Collector (DM) Collectorate Ph. 04862 - 232303/ FAX - 04862 -233101		Details of necessary equipment & Resources in annexure
Nearest SDRF Unit	Location, address		
Nearest IMD regional Office	India Meteorological Department, Thiruvananthapuram		FAX.0471 232242/232294
Nearest Navy headquarters	Flag Office commanding Southern Naval Command, Naval Base Kochi-682004 Ph.0484-2872046		Ph.0484-2872046
Nearest Army camp	Ph. 04712352373 FAX. 04712353030		
Nearest Air Force headquarters	Ph. 0471 2551361/0471 2551362 FAX. 0471 2554908		
PRI Representatives	Panchayath	53	
	Block	08	
	Municipal town/ Municipal corporation	01	
HR Trained in Disaster Management	Nill		
Road connectivity	SH 33 Thodupuzha-Puliyannamala SH 13 Kottayam –Kumali NH 49 Kochi-Madura		
Police force	Human resource		Details of stations, vehicles, equipment available given in Annexure 3
	vehicles		
Healthcare	Hospitals Gov-5, Pvt(120)	125	Details of number of beds, specialists in Annexure 4
	Number of doctors(gov)- 152(Pvt)-329	481	
	Number of ANMs	312	
	Blood banks	4	
	Red cross society offices		
	Primary health centres Community health centres	39 14	

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	Medical dispensaries	105	
	Ambulance	21	
	Number of Asha workers	1342	
	Veterinary hospitals	9	
	Veterinary Dispensaries	45	
Rescue operations	Human resource in fire and rescue department		Details of other equipment in Annexure 5
	Fire engines	4	
	Earth moving vehicles	8	
Communication	BSNL Offices in the district	9	Details of officials in Annexure 6
	Visual media	15	
	Dailies	14	
	Radio station	01	
	HAM radio	11	Details of operators in Annexure 7
Hand Pumps	Numbers		
Ponds	42		
Reservoirs	18		
Dams			Details in Annexure 8
Bore Well	2355		
Tankers	41		
Ground water observation wells	Dug wells-33 Piezometers-7		
Industrial Units			Details in Annexure 9
Helipad			Details in Annexure 10
Relief Camps Details			Details in Annexure 11
Public Distribution Shops	639		
NGOs	28		
Major plan projects in the district	Internationally funded projects		
	National level projects		
	State level projects		

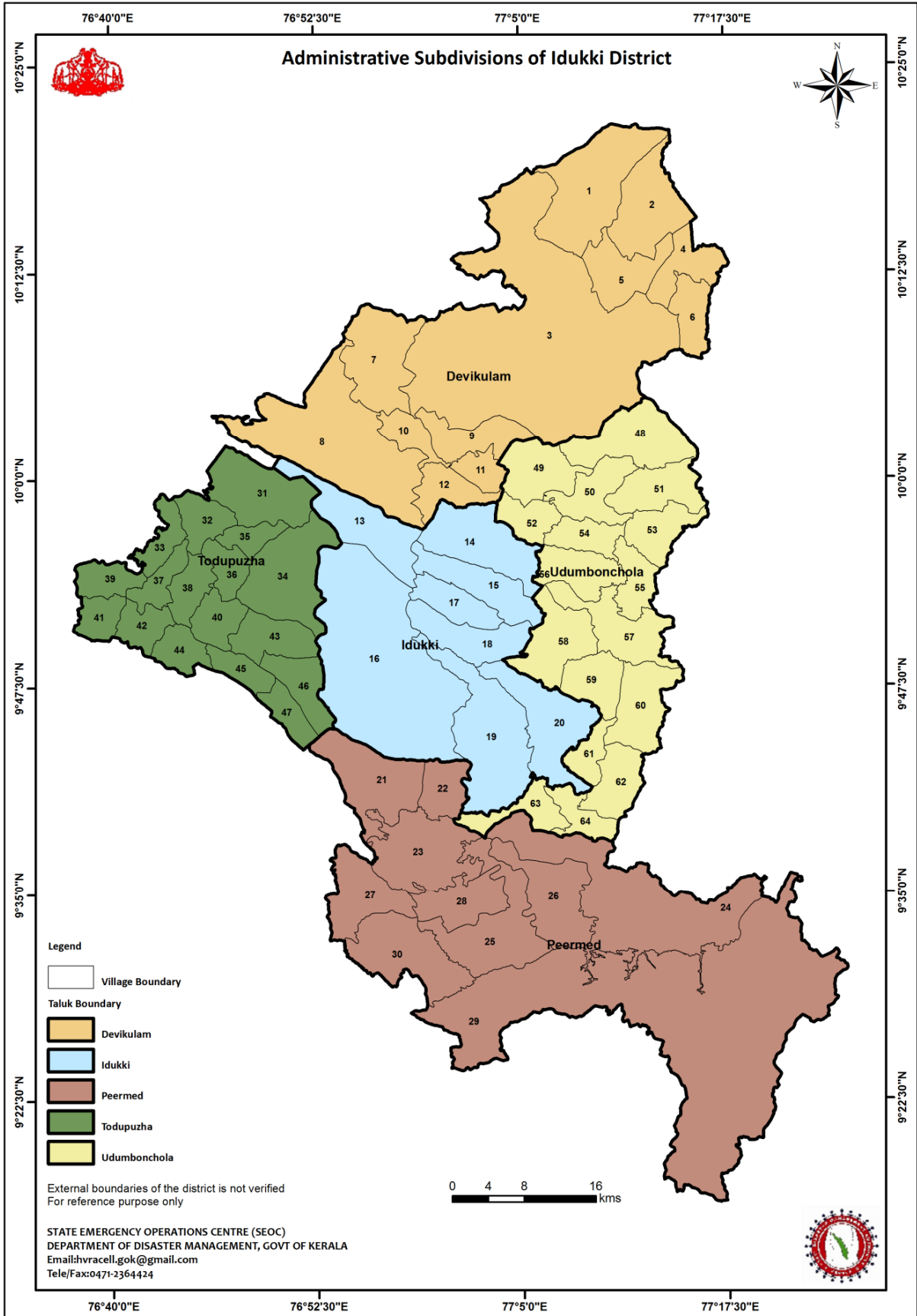


FIGURE 1: ADMINISTRATIVE SUBDIVISIONS OF IDUKKI DISTRICT (ANNEXURE 12)

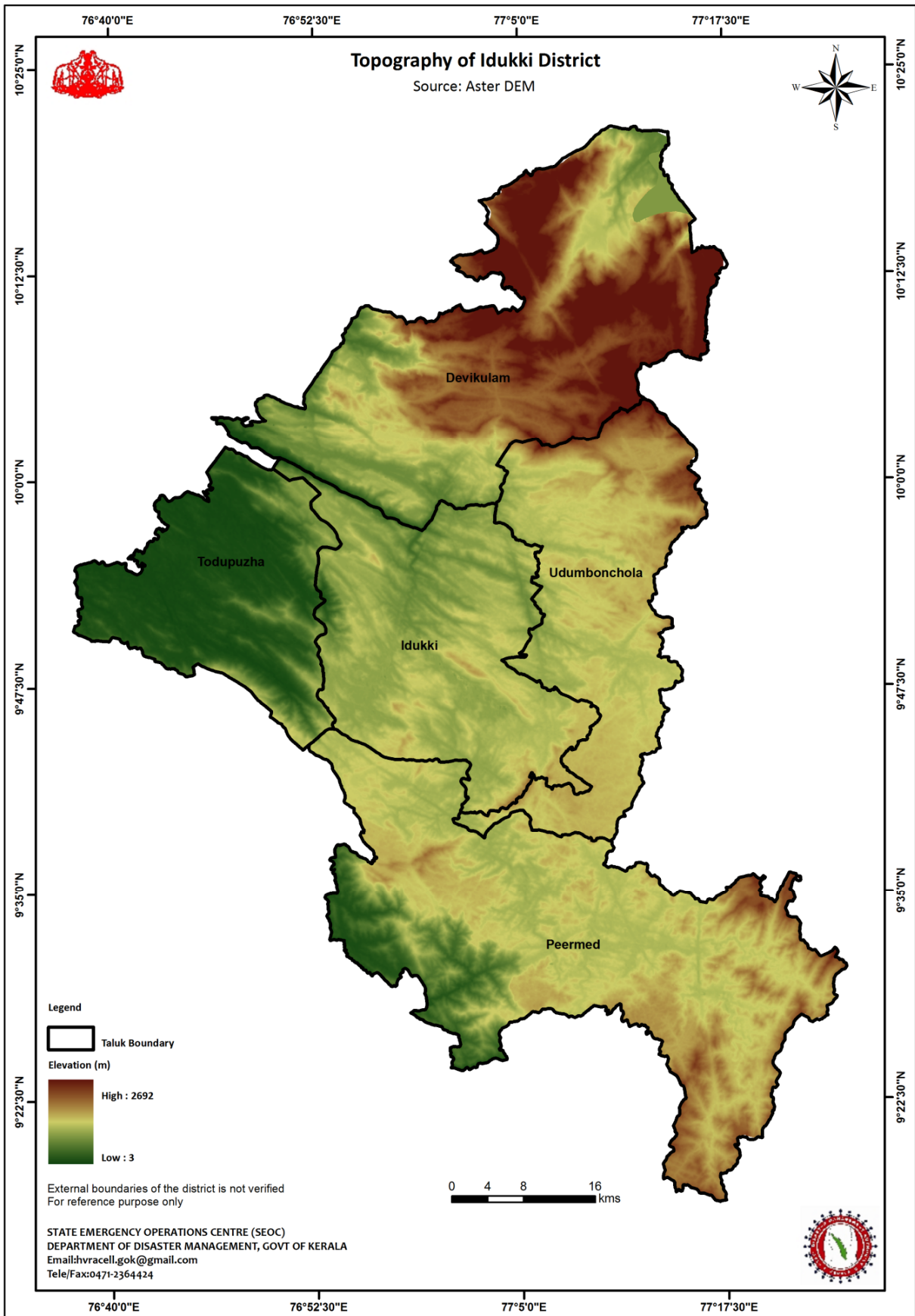


FIGURE 2: TOPOGRAPHY OF IDUKKI DISTRICT

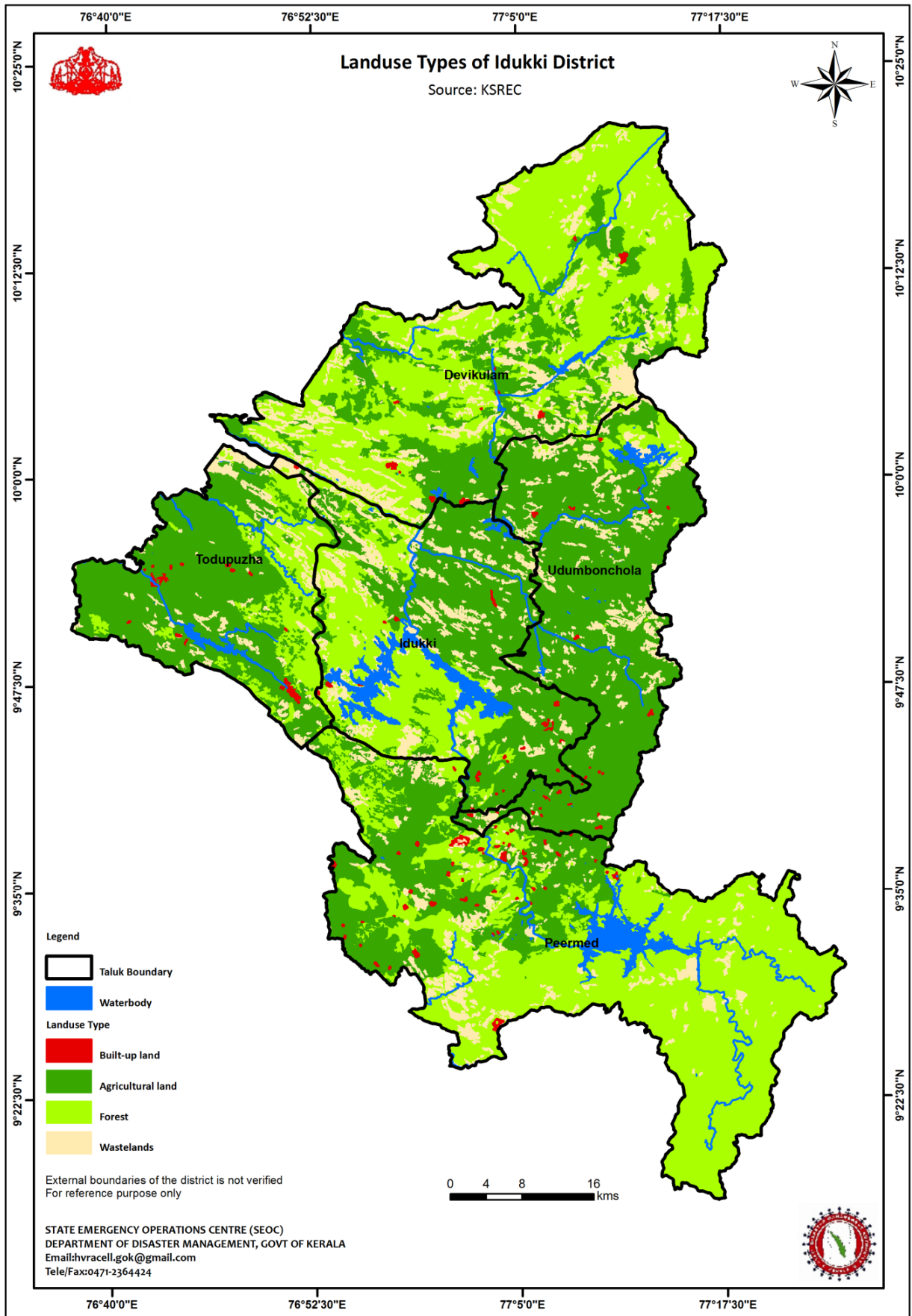


FIGURE 3: LANDUSE TYPES OF IDUKKI DISTRICT

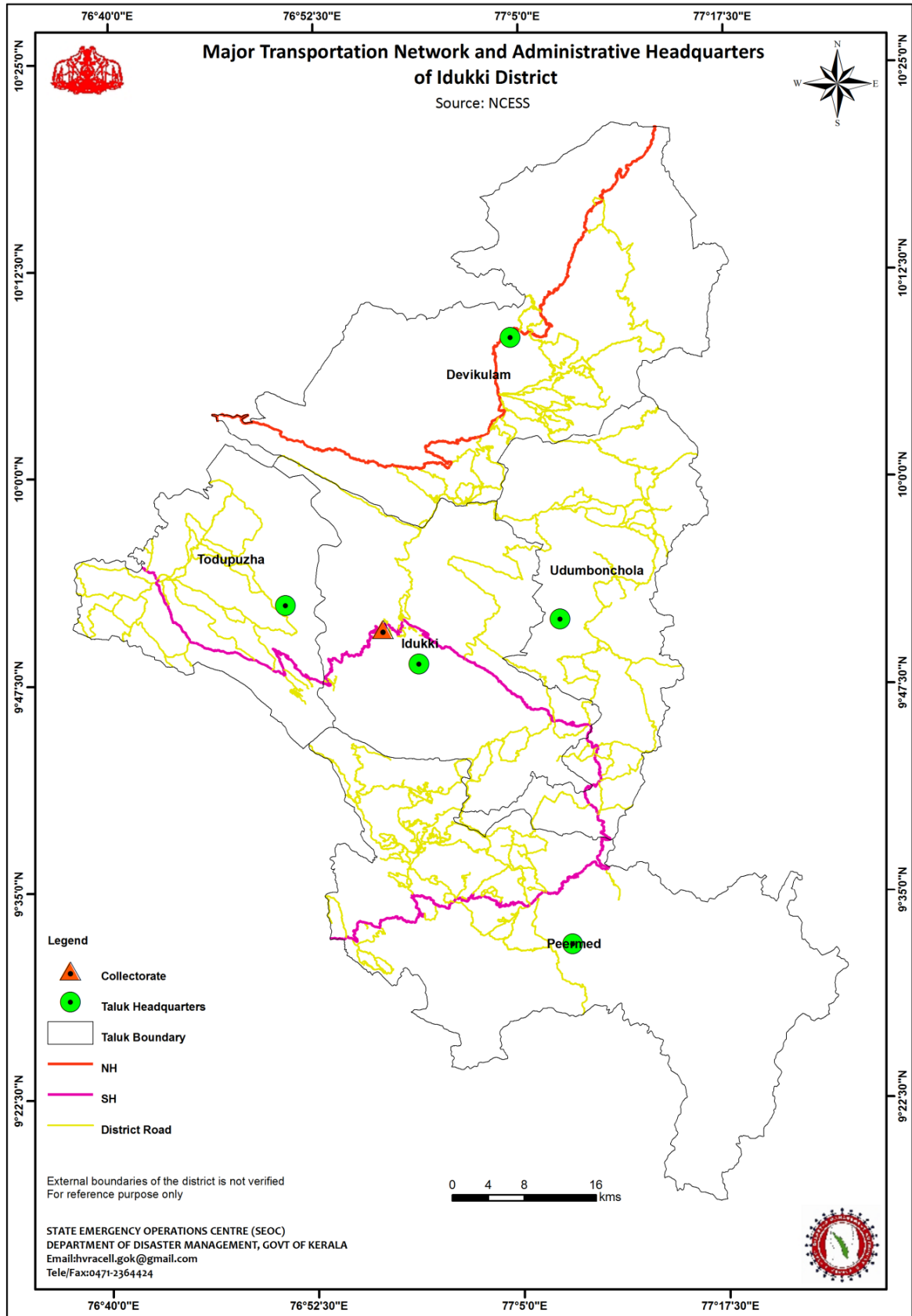


FIGURE 4: MAJOR TRANSPORTATION NETWORK AND ADMINISTRATIVE HEADQUARTERS OF IDUKKI DISTRICT

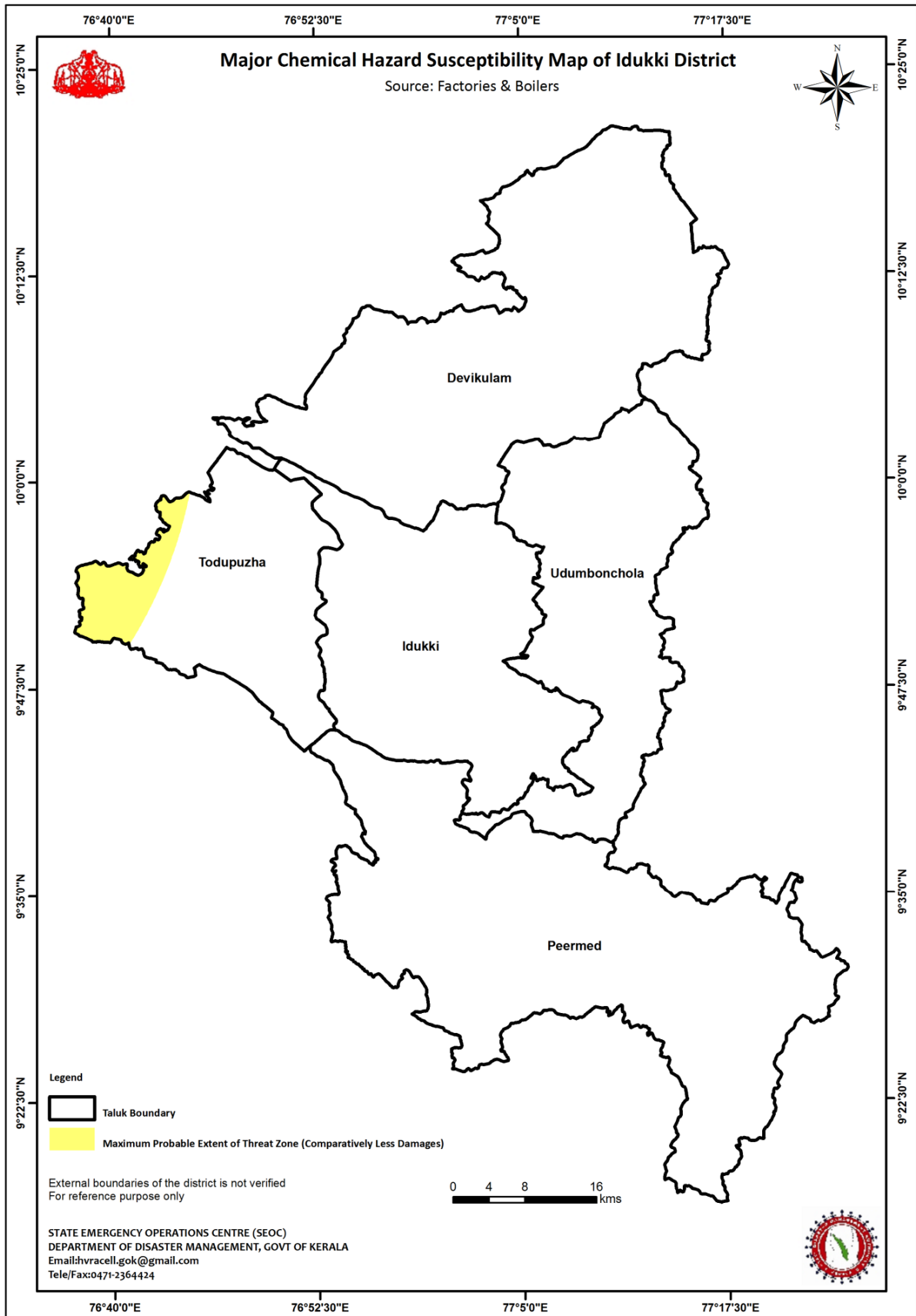


FIGURE 5: MAJOR CHEMICAL HAZARD SUSCEPTIBILITY MAP OF IDUKKI DISTRICT, SUSCEPTIBLE AREA – THODUPUZHA- 89.95 SQ. KM.

INSTITUTIONAL ARRANGEMENTS

3.1 DISTRICT DISASTER MANAGEMENT AUTHORITY – IDUKKI

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

TABLE 22: DDMA STRUCTURE

1.	The District Collector	Chairperson, Ex-officio.
2.	The President, District Panchayat Idukki	Co-chairperson, Ex-officio.
3.	The Additional District Magistrate	Chief Executive Officer, Member, Ex-officio.
4.	The Superintendent of Police	Member, Ex-officio.
5.	The District Medical Officer of Health	Member, Ex-officio.
6.	The Assistant Divisional Officer, Fire & Rescue Services, Kattappana.	Member, Ex-officio, Nominated under clause (f) of sub-rule (2) of rule 14.
7.	The Executive Engineer, Public works (Roads)	Member, Ex-officio, Nominated under clause (f) of sub-rule (2) of rule 1

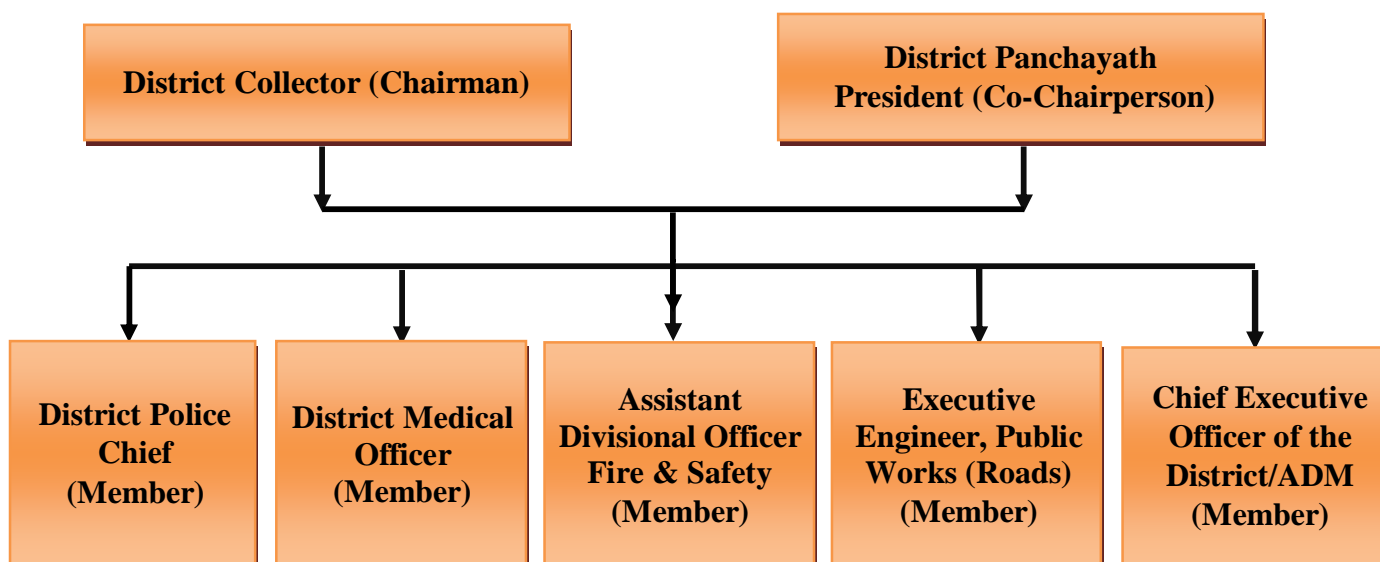


FIGURE 6: DDMA STRUCTURE

3.2. NODAL DEPARTMENTS FOR VARIOUS HAZARDS

- ✚ 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

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.

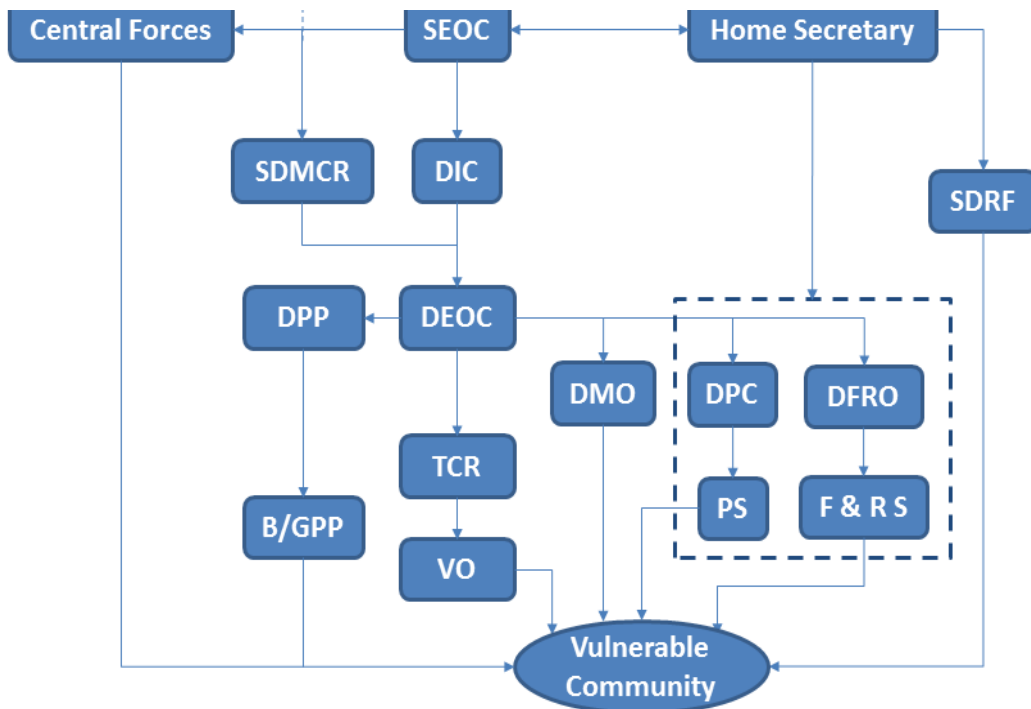
3.4 POWERS AND FUNCTIONS OF DISTRICT AUTHORITY

- (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;
- xx. 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
- xxi. 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;
- xxii. Provide necessary technical assistance or give advice to the local authorities in the district for carrying out their functions;
- xxiii. 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;
- xxiv. 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;
- xxv. Identify buildings and places which could, in the event of any threatening disaster situation or disaster, be used as relief centers or camps and make arrangements for water supply and sanitation in such buildings or places;
- xxvi. Establish stockpiles of relief and rescue materials or ensure preparedness to make such materials available at a short notice;
- xxvii. Provide information to the State Authority relating to different aspects of disaster management;
- xxviii. Encourage the involvement of non-governmental organisations and voluntary social-welfare institutions working at the grassroots level in the district for disaster management;
- xxix. Ensure communication systems are in order, and disaster management drills are carried out periodically;
- xxx. 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

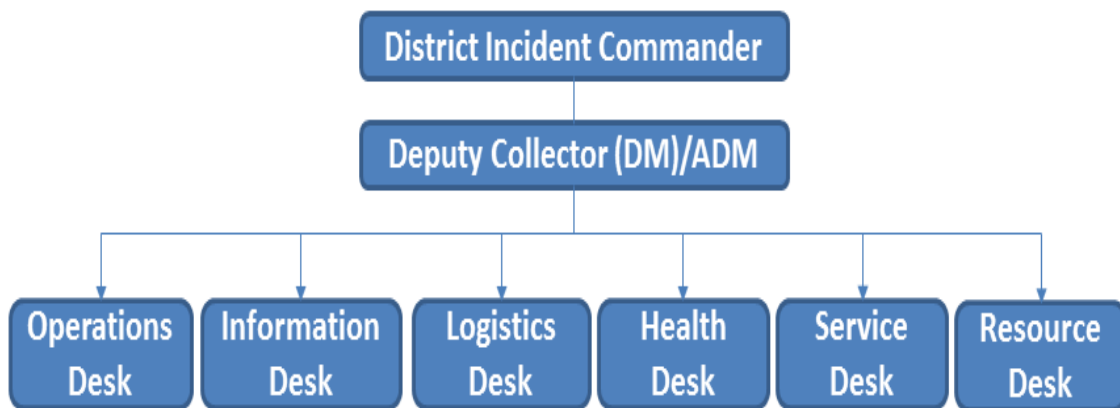


FIGURE 8: FLOW CHART ON INCIDENT COMMAND SYSTEM

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 18**

TABLE 23: IDENTIFY DIFFERENT LEVEL STAKEHOLDERS AND THEIR RESPONSES

	Primary	Secondary	Territory
Early Warning	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: Events without precursors such as accidents/earthquakes, Revenue	Fisheries, Coast Guard, Police,

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Information Dissemination	PRD, BSNL, SEOC	FM radio, other mobile Network Providers	Existing wireless operators (Police, Fire Force etc).
Emergency Support Functions	Refer to Annexure 18	PWD, Food & civil supplies	Animal Husbandry, KSEB, KWA
Advisory & Training	Administrative Training Institutes (ATI)	Taluk, NGO	Chemical Industries

TABLE 24: POINT OF CONTACTS FOR VARIOUS DEPARTMENTS

Departments	Officer in charge (Designation)	Contact No.
Revenue Department	District collector	04862-233101
	Additional District Magistrate (ADM)	04862-233056
Fire & Rescue	Assistant Divisional Officer	0486-2872300
Police	District police supedt.Idukki	9497996981

Emergency Contact Details in Annexure 19

FINANCIAL ASSISTANCE

As per the National Disaster Management Act, 2005, various financial provisions are available at District level for implementation of the plan. Explore more about this section other than the assistance mentioned here.

TABLE 25: SDRF DEATAILS IN IDUKKI

YEAR	2010-11	2011-12	2012-13	2013-14
Allotment (Rs)	1600000		107914712	291884458
Expenditure (Rs)	1600000		66746503	233829549
Surrendered (Rs)	0		41168209	58054909

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.

TABLE 26: CRISIS MANAGEMENT GROUP

Sl.No.	Officials	Phone number	Email
1	Additional divisional Magistrate	04862 233056, 232288 (camp) 9447303036	
2	Superintendent of Police	04862 232354	
3	Assistant Divisional Officer, Fire & rescue	04862 232300, 9946558014	adofrskattappana@gmail.com
4	Principal Agricultural Officer		
5	District Medical Officer	04862 233030	

5.2 ROLE OF DISTRICT ADMINISTRATION

1. Preparation of the Disaster Management Action Plan for the District with the assistance of the Disaster Management Committee and other experts.
2. To implement the disaster management action plan.
3. Setting up the district control room and making it function effectively.
4. Earmarking and entrusting responsibility to various departments.
5. Coordination with all the line departments of the State, Central and other agencies.
6. To liaise with the government periodically about the disaster and the action taken.
7. Integrating the MARG (Mutual Aid and Response Group) of the industrial belt with the disaster management committee.
8. Before the disaster make the district machinery to equip and to be prepared.
9. Setting up relief camps and transit camps.
10. Conducting relief and rescue operations.
11. Corresponding with the Defence Ministry Personnel.

12. To interact with donor agencies for relief and rehabilitation.
13. Collector is the central authority exercising emergency powers to issue directives to all the departments and to provide emergency response service.
14. Organizing training and conducting mock drills.
15. Maintaining the supply of essential commodities.
16. Preparing Memoranda for getting resources for Relief.
17. Giving adequate and right information to the people.

5.3 HAZARD SPECIFIC CRISIS MANAGEMENT PLAN FOR THE DISTRICT

5.3.1 FLOOD

TABLE 27: FLOOD CRISIS MANAGEMENT PLAN FOR THE DISTRICT

Level	Vulnerability Magnitude	Observations	Impact	Response
1	Normal	Monitor and analyse data received from flood prediction sources	-	Updating resource inventory
2	Warning	i) Information Dissimilation ii) Monitor tidal, estuarine and river levels during the event	Imminent flood warning 'may cause panic	i) Information Dissemination to DD Fisheries, Revenue Officials, Media and Other Concerned Departments ii) Provide timely information on at risk locations
3	Emergency	Coordination of the all line departments	i) Physical damage- Can range anywhere from bridges, cars, Buildings, sewer systems, roadways, canals and any other type of structure. ii) Casualties- People and livestock die due to drowning. It can also lead to epidemics and diseases. iii) Water supplies- Contamination of water. Clean drinking water becomes scarce.	i) Deploy of ERT's and equipment to maintain drainage systems ii) Evaluate resources and equipment required to contain the incident iii) Inform Health Department of any Public Health issues which may arise iv) Provide advice to the public on measures to be taken to alleviate the flood impact v) Arrange for the deployment of temporary

			<p>iv) Diseases- Unhygienic conditions. Spread of water-borne diseases</p> <p>v) Crops and food supplies- Shortage of food crops can be caused due to loss of entire harvest. Tertiary/long-term effects</p> <p>vi) Economic- Economic hardship, due to e.g. temporary decline in tourism, rebuilding costs, food shortage leading to price increase etc, especially to the poor.</p>	<p>defense solutions where required</p>
4	Recovery (Post Disaster)	Monitoring the Recovery Operations	<p>Spread of Diseases, Rehabilitation & Financial aids, provision of water and sanitation</p> <p>-</p>	<p>i) Clean-up operations, removal & disposal of debris</p> <p>ii) Providing advice, support and assistance to the community</p> <p>iii) Actions to facilitate the return of displaced persons to their homes</p> <p>iv) Facilitating the provision of humanitarian assistance</p>

5. 3.2. Landslide

TABLE 28: LANDSLIDE CRISIS MANAGEMENT PLAN FOR THE DISTRICT

Level	Vulnerability Magnitude	Observations	Impact	Response
1	Normal	Monitor and analyse the warnings from SEOC, SDMA,IMD etc	-	<p>i)Landslide Education, Awareness and Capacity Building</p> <p>ii)Updating resource inventory</p>
2	Warning	<p>i)Information Dissemination</p> <p>ii)Soil/ground movements</p> <p>iii)Initial (minor) slides</p> <p>iv)Poles, trees, etc. leaning in the same</p>		

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		<p>direction</p> <p>v) Newly developed or growing cracks, subsidence or bulges in the ground/buildings</p> <p>vi) Breakages of pipes and cables in the ground</p> <p>vii) Sudden interruption of flow in watercourses or increased flow may indicate a landslide upstream</p>		
3	Emergency	Coordination of the all line departments	<p>i) Can be life threatening and bury people</p> <p>ii) The short-term impact accounts for loss of life and property at the site</p> <p>iii) The long-term impact includes changes in the landscape that can be permanent, including the loss of cultivable land and the environmental impact in terms of erosion and soil loss, population shift and relocation of Populations and establishments.</p> <p>iv) Buildings/infrastructure are broken up, buried, filled with landslide deposit/rubble, deformed, become unstable or collapse</p>	<p>i) Deploy of ERT's and equipment</p> <p>ii) Evaluate resources and equipment required to contain the incident</p>
4	Recovery (Post Disaster)	Monitoring the Recovery Operations	Rehabilitation & Financial aids	<p>i) Clean-up operations, removal & disposal of debris</p> <p>ii) Providing advice, support and assistance to the community</p> <p>iv) Facilitating the provision of humanitarian assistance</p>

5.3.3 Drought

TABLE 29: 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
3	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	
4	Recovery (Post Disaster)	Adequate Drinking water supply		KWA
		Assessment of detailed crop loss and give assistance to farmers		Agriculture dept.

5.3.4 Lightning

TABLE 30: 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 OF DEPARTMENT DURING MONSOON SEASONS

HEALTH DEPARTMENT

Pre Monsoon

1. Regular disease & vector surveillance
2. Preparedness in outbreak prone areas
 - a. Intensive IEC & BCC activities:
 - b. Preventive action in water scarce areas
 - c. Capacity building
 - Street & market cleansing and cleaning of campuses
 - Breeding source elimination, especially key containers
 - Removal of dry containers
 - Special intervention in water storage areas
 - Chlorination and super chlorination of water sources through **operation yellow free**
 - Covering of OHT,GHT and shallow wells with nets
 - Minor engineering works
 - Harvesting and release of larvivorous fishes(Guppy Fish)
 - Serving Notice on the basis of PH Act
 - Removal of unnecessary vegetations and residual spraying in places of Scrub Typhus
 - Removal of aquatic vegetation from ponds, pools, canals, etc in places of JE
 - Operation hot water -periodical inspection at Hotels for healthy and hygienic environment to stop Typhoid and Hep A

During Monsoon

1. Rapid response to outbreaks
2. Strengthen treatment facility
3. Weekly dry day observations
4. Student campaign
5. Observe Anti Malaria and Anti Dengue months
6. PH Act implementation Meetings

Post Monsoon

1. Advocacy and sensitization meetings
2. Intensive screening of immigrants for malaria.
3. Prevent breeding of malaria mosquitoes
4. Release larvivorous fishes in wells and other water sources.
5. IRS in endemic areas and focal spray in outbreak areas of malaria
6. Supply of Doxycycline for the prevention of Leptospirosis.
7. Waste disposal and rat control with the help of other agencies.
8. Aides control and surveillance against Dengue outbreaks
9. Control of outbreaks of other diseases whenever needed
10. Action campaigns may be organized if required

Animal Husbandry Department

Pre Monsoon

1. Vaccination of animals & birds,
2. Deworming of animals & birds,
3. Conducting awareness programmes

During Monsoon

1. Assessing & reporting of losses due to natural calamities,
2. Providing treatment & required medicines for ailing animals
3. Providing feed for affected animals
4. Providing ambulatory service in cases of emergency

Post monsoon

1. Vaccination of animals & birds
2. Deworming of animals & birds
3. Follow up action on losses reported due to natural calamities and providing assistance

KSEB

Pre Monsoon

1. 11 KV line maintenance.
2. HT touching removal.
3. Replacement of damaged HT poles

4. Maintenance of transformers.
5. Maintenance of LT Lines. LT touching removal.
6. Replacement of damaged LT poles

During Monsoon

1. Attending supply interruption complaints and breakdown maintenance works

Post monsoon

Reconductoring of HT/ LT lines and conversion of Single Phase to 3Phase line planned

5.5 NEED ANALYSIS FOR PRE AND POST DISASTER SCENARIOS

Hazard specific anticipated needs for pre and post disasters namely flood, drought, landslide and earthquake

TABLE 31: NEED ANALYSIS FOR PRE AND POST FLOOD SCENARIOS

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		

TABLE 32: NEED ANALYSIS FOR PRE AND POST LANDSLIDE SCENARIOS

Anticipated Needs Pre- Landslide		Anticipated Needs Post – landslide	
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 inventoy	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 select locations demonstrate mitigation actions through use of local resources / cost Effective measures.		

TABLE 33: NEED ANALYSIS FOR PRE AND POST EARTHQUAKE SCENARIOS

Anticipated Needs Pre- Earthquake		Anticipated Needs Post – Earthquake	
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

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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, Communication System
To provide or make seismic microzonation maps	Planning logistics for response scenarios, planning of evacuation routes	Life saving equipments	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		

TABLE 34: HISTORY OF TREMORS IN THE DISTRICT

Sl.No.	Location	Intensity	Magnitude	Year
1	Thodupuzha-Pala	V	...	1953
2			4.3	1971
3	Nedumkandam_Idukki	VI	4.5	1988
4	Nedumkandam_Idukki	...	4.1	1988
5	Nedumkandam_Idukki	...	3.4	1988
6	Idukki_Dam	...	1.9	2003
7	Tanikkudi_Idukki	...	2.1	2006
8	Thanikudi		2.1	2006
9	Nedumkandam		2.5	2008

TABLE 35: NEED ANALYSIS FOR PRE AND POST LIGHTNING SCENARIOS

Anticipated needs Pre-Lightning			Anticipated needs Post-Lightning	
Sl. No.	Structural	Non –Structural	Rescue	Relief
1	Install lightning rod during the time of building construction	Public awareness campaigns	Human resources	Medicines/ Vaccination
2		Update Resource Inventories	Mobile Clinics	Financial aid

TABLE 36: NEED ANALYSIS FOR PRE AND POST DROUGHT SCENARIOS

Anticipated Needs Pre- Drought			Anticipated Needs Post – Drought	
Sl. No	Structural	Non – Structural	Rescue	Relief
1	Renovation of existing ponds and open wells	Public Awareness Campaigns	Human Resources	Drinking Water supply
2	Construction of check dams, cleaning and protection of existing water sources	Monitoring and updating drought related parameters	Mobile Clinics	Cooked food
3	Renovation of existing lift irrigation system	Update resource inventories		Medicines/ Vaccination
4	Forestation	Storage of medicines		Financial Aid
5	Promotion of Rainwater harvesting and soil conservation measures	Water supply		
6	Watershed Management Programmes	Encourage farmers to understand crop pattern to be adopted in their area		
7	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

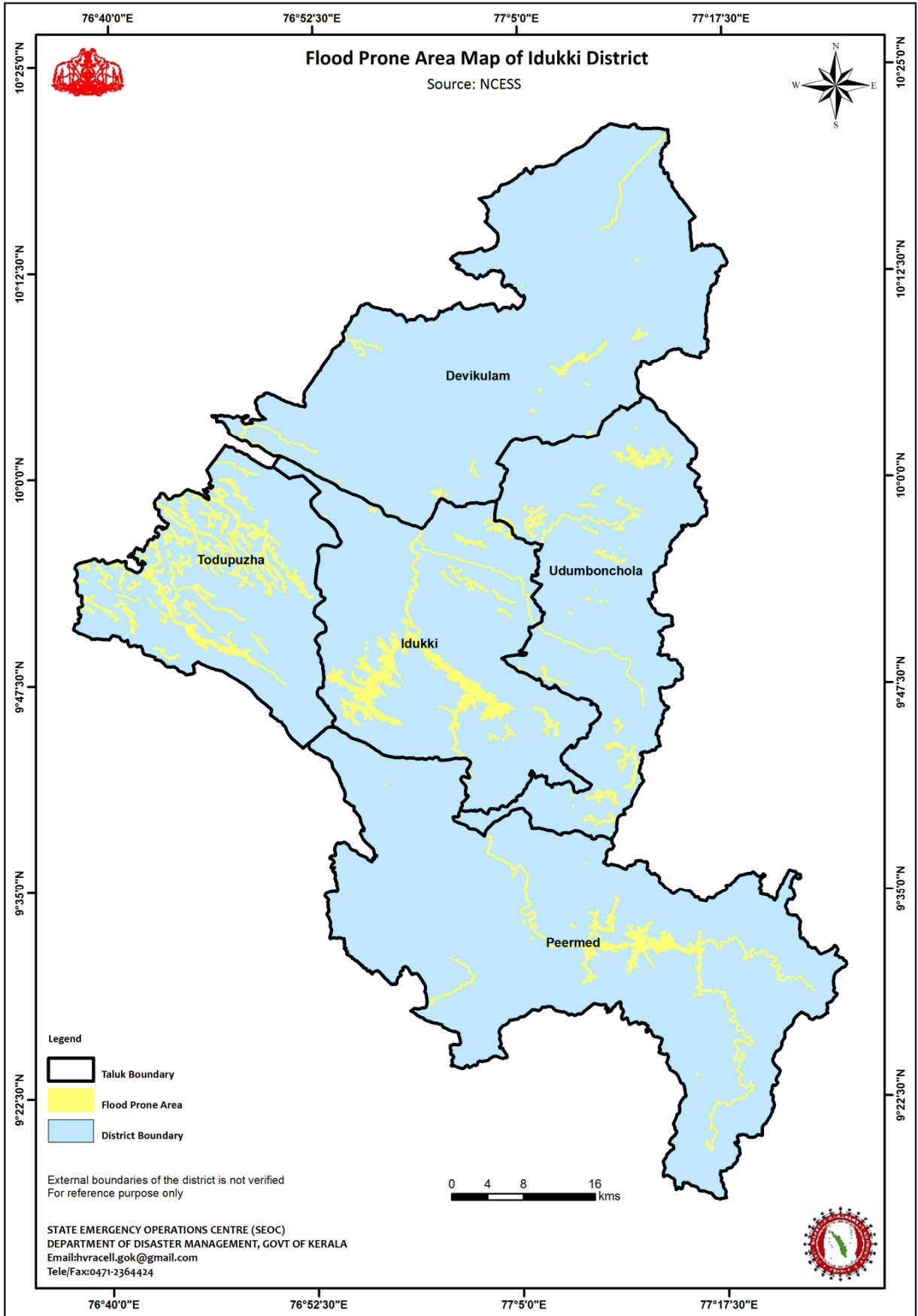


FIGURE 9: FLOOD PRONE AREA MAP OF IDUKKI DISTRICT (ANNEXUE 13)

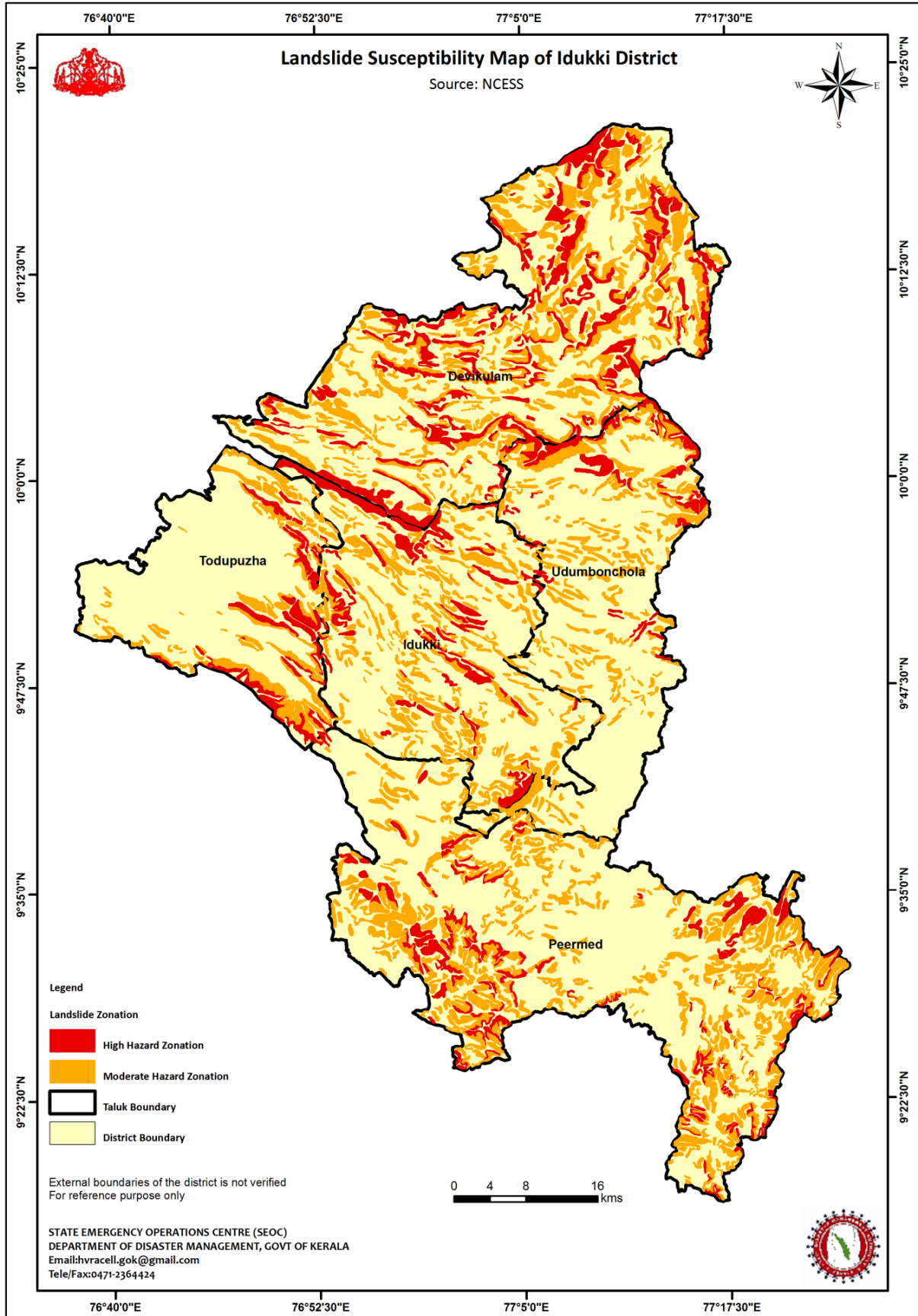


FIGURE 10: LANDSLIDE SUSCEPTIBILITY MAP OF IDUKKI DISTRICT (ANNEXURE 13)

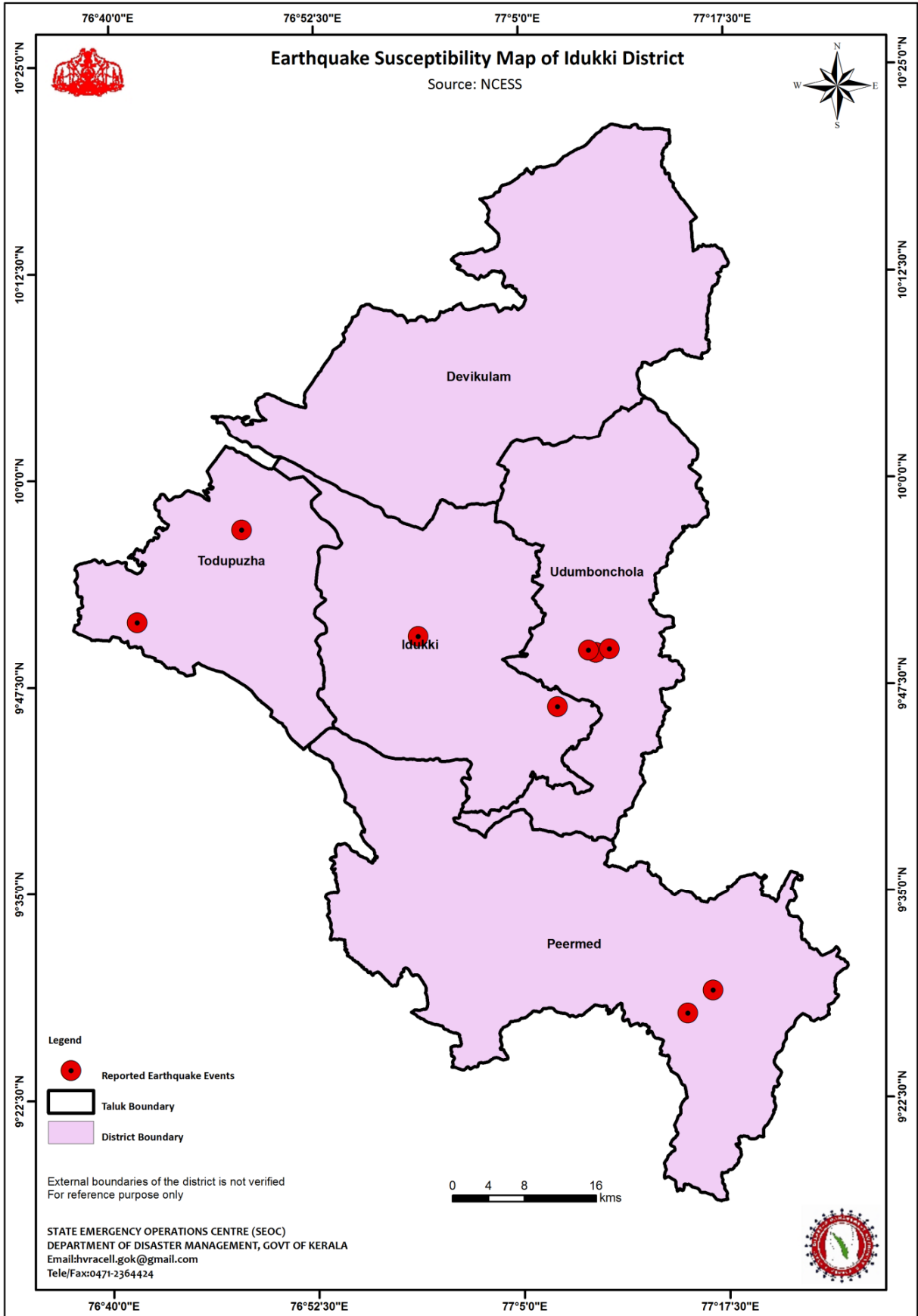


FIGURE 11: EARTHQUAKE SUSCEPTIBILITY MAP OF IDUKKI DISTRICT

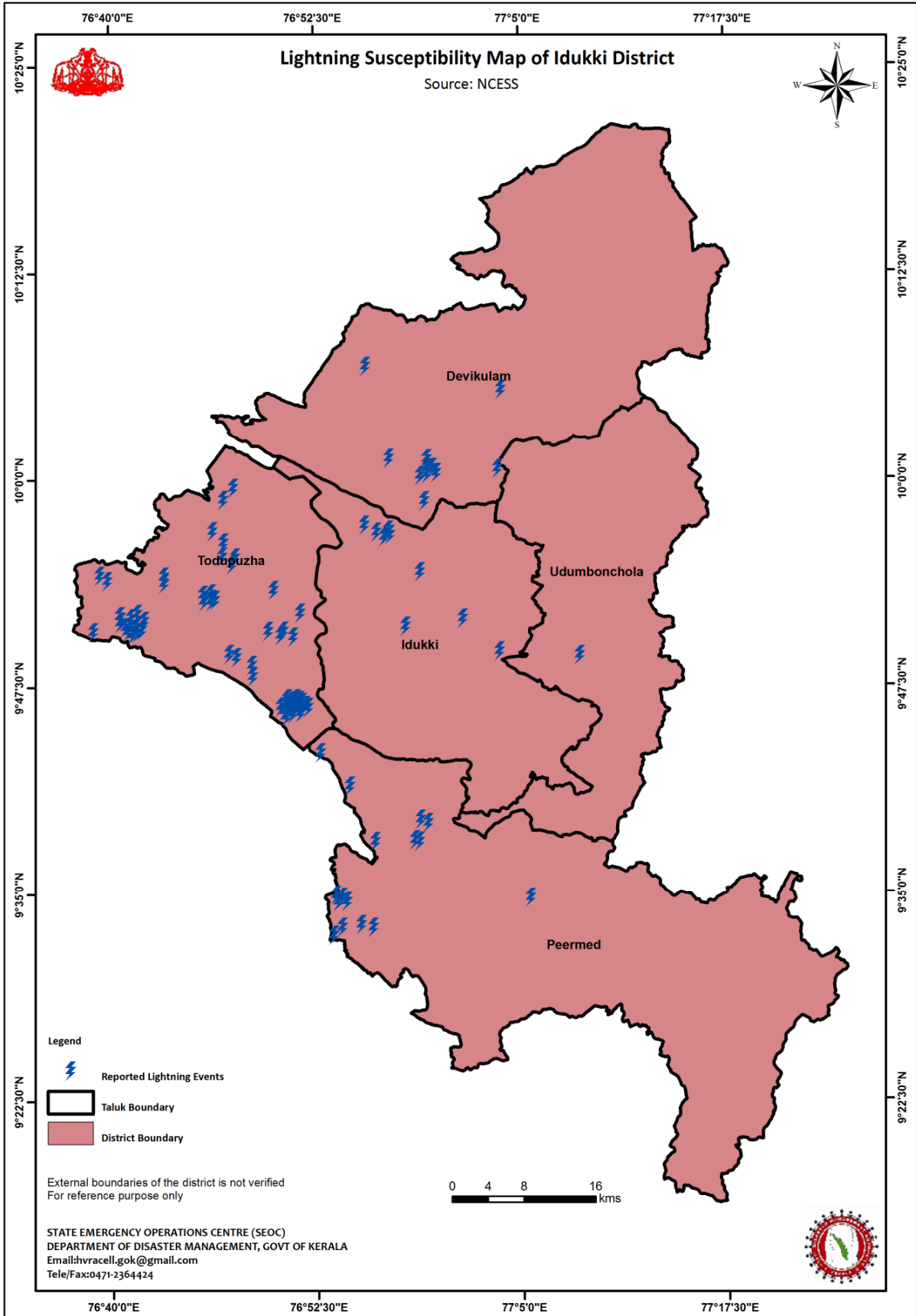


FIGURE 12: LIGHTNING SUSCEPTIBILITY MAP OF IDUKKI DISTRICT (ANNEXURE 14)

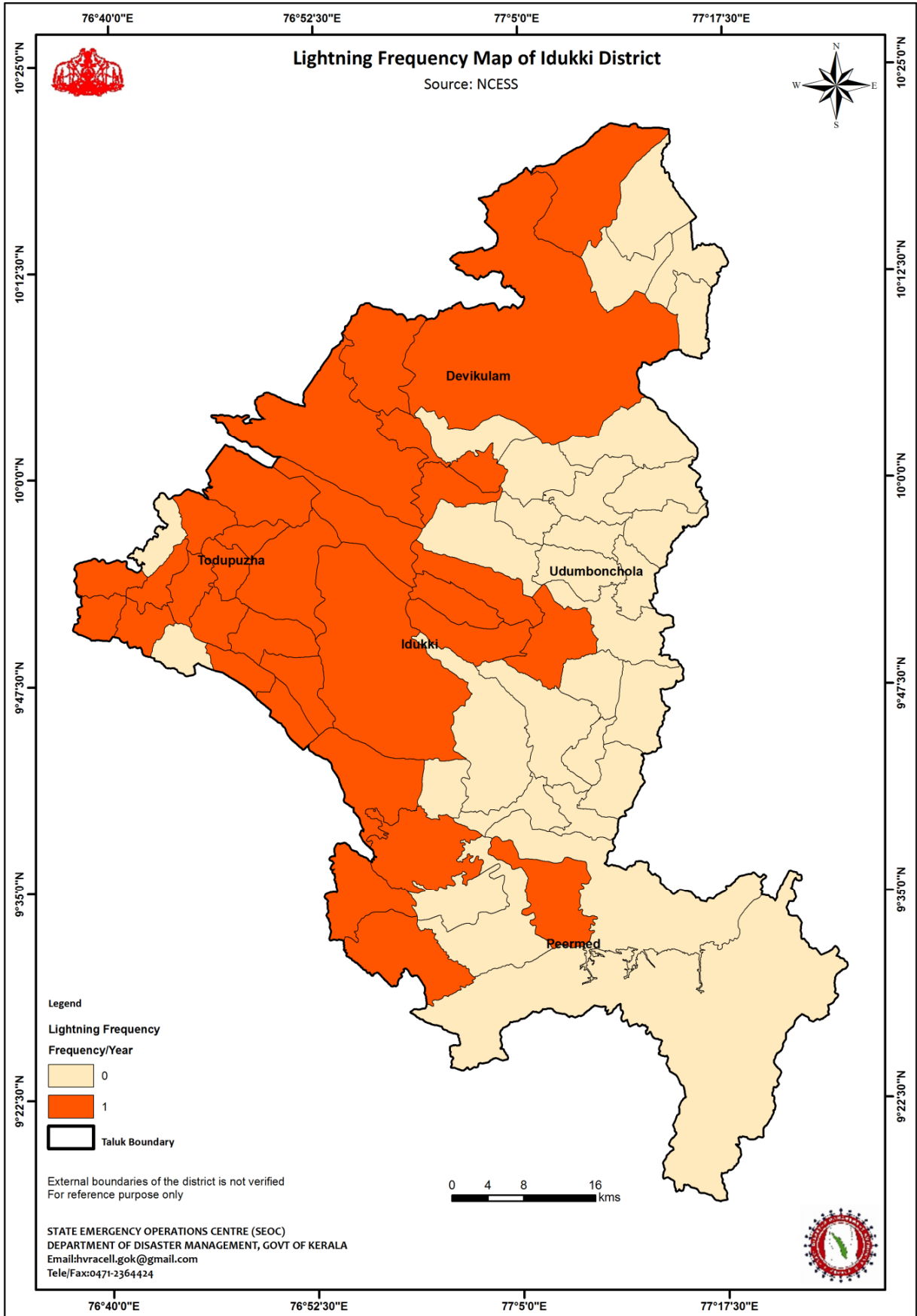
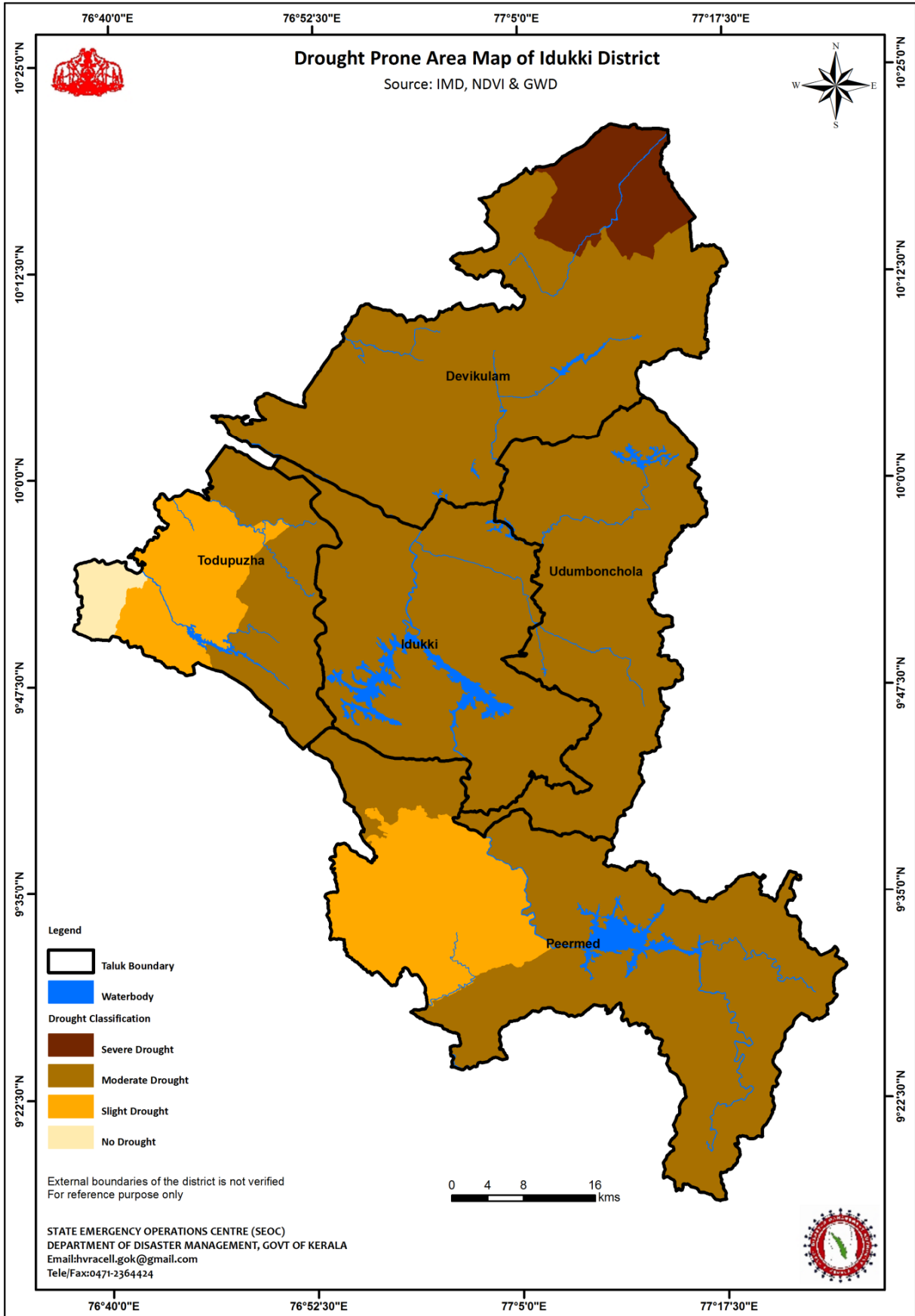


FIGURE 13: LIGHTNING FREQUENCY MAP OF IDUKKI DISTRICT (ANNEXURE 15)



**FIGURE 14: DROUGHTPRONE AREA MAP OF IDUKKI DISTRICT
(ANNEXURE 16)**

5.6 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 unturned 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 37: RESPONSIBILITY MATRIX

Time	Task	Department/ Agency
D-72 Hr	Warning and analysing in the information	IMD,SEOC,INCOIS
D-48 Hr	Evacuation, Arrangement of temporary shelters,	Revenue, Police ,
D-24Hr	Mitigation Measures	Revenue, Police, fire& Rescue,Health, Navy, NGO’s, PWD,
D0Hr	Activate the Incident Command System.	DDMA, Police, fire& Rescue,Health
D+15 Min	Search and Rescue Providing aids to affected people	Revenue, Police, fire& Rescue,Health, Navy, NGO’s, PWD,

5.7 RECONSTRUCTION, REHABILITATION & RECOVERY MEASURES

DDMP would describe the strategy to restore normalcy to the lives and livelihoods of the affected population. Short-term reconstruction requires return of vital life support systems to minimum operating standards while long term rehabilitation will continue till complete redevelopment of the area takes place.

Standard Operating Procedures and Preparedness Checklist for various Departments in Annexure 17.

5.8 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 18.

DISTRICT DISASTER MANAGEMENT PLAN
IDUKKI –ANNEXURE
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ANNEXURE 1

DISTRICT ADMINISTRATIONS- CONTACT NUMBERS

Sl.No	Taluk	Office Ph No	Moblie	Fax
1	Thodupuzha	04862 222503	9447029503	04862 222503
2	Devikulam	04865 26431	9447026414	04865 264231
3	Peermade	04869 232077	9447023597	04869 232077
4	Udumpancholla	04868 232050	9447023809	04868
5	Idukkki ThaluK			

VILLAGE OFFICE IN IDUKKI

Thodupuzha Taluk			
Sl.No.	Village	Land Ph. No	Mobile
1	Thodupuzha	04862 -222098	8547612802
2	Muttom	04862 -257210	8547612803
3	Karikode	04862 -222848	8547612804
4	Allakode	04862 -277855	8547612805
5	Kumaramangalam	04862 -200213	8547612806
6	Mannakade	04862 -202313	8547612807
7	Karikunnam	04862 -243980	8547612808
8	Purapuzha	04862 -274482	8547612809
9	Karimanoor	04862 -263443	8547612810
10	Udumpanoor	04862 -270900	8547612811
11	Nayashary	04862 -263870	8547612812
12	Vannapuram	04862 -246500	8547612813
13	Kodikulam	04862 -264952	8547612814
14	Kudayathoor	04862 -257220	8547612815
15	Valliyamattom	04862-277863	8547612816
16	Arakulam	04862 -253388	8547612818
17	Elapally	04862 -288092	8547612819
Idukkki Taluk			
1	Idukki	04862 -232393	8547612817
2	Kanjikuzhy	04862 -239582	8547612820
3	Upputhodu	04862 -230888	8547613210
4	Thankamoney	04868-275293	8547613215
5	Vathikudy	04868-260302	8547613209
6	Konnathady	04868-262902	8547613205
7	Kattapana	04868-273300	8547613221
8	Ayappankovil	04868-244524	8547613217

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Peermade Taluk			
1	Paruvanthanam	04869- 280970	8547612902
2	Kokkayar	04869-284404	8547612903
3	Vagaman	04869-248432	8547612904
4	Eallapara	04869-242897	8547612905
5	Upputhara	04869-244756	8547612906
6	Peermade	04869-232765	8547612907
7	Malappara	04869-281008	8547612908
8	Pariyar	04869-224243	8547612909
9	Manjumala	04869-253362	8547612910
10	Kumaly	04869-224252	8547612911

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GRAMA PANCHYATH IN IDUKKI

Sl.NO	Panchayath	PRI	Email.Com	Ph.No Office	Ph.No Res
Adimaly Block					
1	Adimali	T.V Skacriya	adimaligp@gmail.com	04864 222160	9496045012
2	Konnathady	Meercey Jose	Konnathadygp@gmail.com	04868 262347	9496045014
3	Bisunvally	Shaji Augastin	pottankadu@gmail.com	04865 265264	9496045016
4	Vallathooval	Jiji Babu	Vellathoovalgp@gmail.com	04864 276222	9496045018
5	Pallivasal	K.B Varatharajan	pallivasalpt@yahoo.in	04865 263239	9496045020
Devikulam Block					
6	Marayoor	Usha Hendri Joseph	myrpanchayat@gmail.com	04865 252316	9496045022
7	Munnar	M.Moneymozhi	munnarlsgkerala@gmail.com	04865 230322	9496045024
8	Kanthalloor	S.Madhavan	kanthalloorgp@yahoo.in	04865 246208	9496045026
9	Vattavada	Chinthamoney	Vattavada.lsg@gmail.com	04865 214054	9496045028
10	Santhanpara	Harichandran	santhanparagp@gmail.com	04868 247230	9496045030
11	Chinnakanal	A.N Money	chinnakanalgp@gmail.com	04868 249343	9496045032
12	Mankulam	Shaji Mathew	mankulamgpm@gmail.com	04864 218104	9496045034
13	Devikulam	Kavitha Kumar	devikulamlsgd@gmail.com	04865 242573	9496045036
14	Edamalakudi	Kaniyamma		9496045039	9496045038
Nedukandam Block					
15	pampadumpara	Sreemandhiram Sasikumar	pampadumparagp@gmail.com	0468 236262	9496045040
16	Senapathy	Pusppa Sali	senapathygp@gmail.com	0468 245241	9496045042
17	Karunapuram	Susi Antony	Karunapuramgp@gmail.com	0468 236207	9496045044
18	Rajakad	Bobylal Baby	rajakadgp@gmail.com	0468 242343	9496045046
19	Nedukandam	Leelamma Joseph	gpnedukandam@gmail.com	0468 232038	9496045048

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

20	Udumpancholla	Kannan Kamaraj	isgichola@gmail.com	0468 237360	9496045050
21	Rajakumari	Suma Suranran	rajakumarygp@gmail.com	0468 243248	9496045052
Ellamdasham Block					
22	Vannapuram	K.P Vargess	secvpmgp@gmail.com	04862 245339	9496045054
23	Udumpanoor	K.R Somaraj	secretaryubr@gmail.com	04862 272041	9496045056
24	Kodikulam	Arishkumar Balakrishnan	secretarykodiulam@gmail.com	04862 264321	9496045058
25	Allakode	Saline Baby	secretaryalkd@gmail.com	04862 276246	9496045060
26	Velliyamattom	Thankamma Raman	secretaryvltm@gmail.com	04862 276226	9496045062
27	Karimanoor	Been Joly	secretarykmnr@gmail.com	04862 262221	9496045064
28	Kudayathoor	K.K Muralidaran Nair	secretarykudayathoor	04862 255069	9496045066
Idukki					
29	Idukki- Kanjikuzhi	P.D Shoshma	idukkikanjikuzhygp@gmail.com	0462 239210	9496045068
30	Vathikudy	Mni Sabu	vathikudy@gmail.com	04868 263231	9496045070
31	Arakulam	Usha Gopinath	secarklmgp@gmail.com	04862 252030	9496045072
32	Kamakshy	Ammama Baby	Kamakshygp@gmail.com	04868 275250	9496045074
33	Vazhathope	Joy	Vazhathopegpil.com@gma	04862 235627	9496045076
34	Mariyapuram	Sathosh Thomas	mariyapuramgp@gmail.com	04862 235645	9496045078
Kattappana					
35	Kattappana	Johny Sebastin	kattappanagp@gmail.com	04868 272235	9496045080
36	Upputhara	Indhira Chandradas	upputharagp@gmail.com	04869 244241	9496045082
37	Vandanmedu	Raji Antony	Vandanmedugp_2009@yahoo.com	04868 277028	9496045084
38	Kanchiyar	Rosamma Jaimes	kanchiyargp@gmail.com	04868 271211	9496045086
39	Erattayar	Baby Pathippali	erattayargramapanchayat@yahoo.com	04868 276005	9496045088
40	Ayyappancoil	Vijayamma Joseph	ayyappancoilgp@gmail.com	04869 244304	9496045090
41	Chakkupallam	Antony Scariya	Chakkupallam.gp@gmail.com	04868 282229	9496045092

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Thodupuzha					
42	Kumaramangalam	Shilaja Balakrishnan	kumaramangalamgp@gmail.com	04862 200687	9496045094
43	Muttom	Beena Joerge	muttomgramapanchayat@gmail.com	04862 255022	9496045096
44	Edavetty	SafeyanBashiir	edavettygramapanchayat@gmail.com	04862 223809	9496045098
45	Karikunnam	Jimmy Mattathilpara	karimkunnamgramapanchayat@gmail.com	04862 242322	9496045100
46	Manakkad	P.S Jacob	Manakkadgp@gmail.com	04862 202248	9496045102
47	Purapuzha	Adv Ranishes	purapuzhagramapanchayat@gmail.com	04862 273049	9496045104
Azhutha					
48	peruvanthanam	Jancey Tomey	peruvanthanamgp@yahoo.co.in	04869 280330	9496045106
49	Kumily	S.P Ramer	kumilygo@gmail.com	222035	9496045108
50	Kokkayar	Sunitha Reji	secretarykokkayargp@gmail.com	04828 284148	9496045110
51	Peermade	P.V Joseph	Gpsec.peermade@hotmail.com	04869 232038	9496045112
52	Elappara	Chithra Rajan	elapparagp@gmail.com	04869 242244	9496045114
53	Vandiperiyar	G.Vijiyandathn	vandiperiyargp@gmail.com	04869 252258	9496045116

ANNEXURE 2

LIST OF HIGH SCHOOLS IN IDUKKI DISTRICT

Educational District - Thodupuzha		
Government Schools		
1	Adimaly H.S	Adimaly - 685 561
2	Bisonvalley H.S	Bisonvalley. P.O., 685 565
3	Chithirapuram H.S	Chithirapuram. P.O.
4	Deviyarcolony V.H.S.S	Valara. P.O., Adimaly
5	Kallarkutty H.S	Kallarkutty. P.O., 685 562
6	Kanjikuzhy H.S	Chelachuvadu - 685 602
7	Kudayathoor H.S.S	Kudayathoor. P.O., 685 590
8	Kulamavu IHEP H.S	Kulamavu. P.O.
9	Kunchithanny V.H.S.S	Kunchithanny. P.O.
10	Maniyarankudy V.H.S.S	Maniyarankudy - 685 602
11	Moolamattom V.H.S.S	Moolamattom .P.O., 685 589
12	Mukkudam H.S	Mukkudam. P.O. 685 562
13	Mullaringadu H.S.S	Mullaringad. P.O
14	Muttom H.S	Muttom. P.O., 685 587
15	Panickankudy HSS	Panickankudy. P.O.
16	Peringassery H.S	Peringassery. P.O.
17	Poomala H.S.S	Koovakandom. P.O., 685 588
18	Rajakkad H.S.S	Rajakad. P.O., 685 566
19	Thattakuzha V.H.S.S	Thattakuzha. P.O.
20	Thodupuzha H.S.S	Thodupuzha. P.O., 685 584
21	Thodupuzha V.H.S.S	Thodupuzha East - 685 585
22	Vazhathope V.H.S.S	Idukki Colony - 685 602
23	Vellathooval H.S.S	Vellathooval. P.O.
24	Westkodikulam H.S	West Kodikulam - 685 582
Private Aided Schools		
1	Adimaly S.N.D.P.H.S.S	Adimaly - 685 561
2	Arakulam S.M.H.S.S	Arakulam. P.O., 685 591
3	Kalayanthani S.G.H.S	Elamdesam. P.O., 685 588
4	Kaliyar S.M.H.S.S	Kaliyar. P.O., 685 582
5	Kallanickal S.G.H.S	Thekkumbhagam - 685 585
6	Karimannoor S.J.H.S.S	Karimannoor. P.O., 685 581
7	Karimkunnam S.A.H.S.S	Karimkunnam. P.O., 685 586
8	Kodikulam S.M.H.S	Kodikulam. P.O., 685 582
9	Koompanpara F.M.H.S.S	Koompanpara. P.O., 685 581
10	Koovappally C.M.S.H.S	Koovappally. P.O., 685 590

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11	Kumaramangalam MKNMHSS	Kumaramangalam - 685 597
12	Kuninji S.A.H.S	Kuninji. P.O., 685 583
13	Manakkad N.S.S.H.S.S	Manakkad. P.O., 685 584
14	Mankadavu Carmel Matha H.S	Mankadavu - 685 561
15	Mankulam S.M.H.S	Mankulam
16	Mothalakodam SH.GHS	Mothalakodam. P.O., 685 605
17	Muthalakodam S.G.H.S.S	Mothalakodam. P.O., 685 605
18	N.R.City S.N.V.H.S.S	N.R. City. P.O., 685 566
19	Nankicity S.N.H & V.H.S.S	Idukkikanjikuzhy - 685 602
20	Neyyassery S.S.H.S	Neyyassery. P.O., 685 581
21	Painkulam S.R.H.S.S	Mailacomb. P.O.
22	Parathode S.G.H.S.S	Parathodeidukki - 685 571
23	Ponmudi S.M.H.S	Konnathady - 685 563
24	Pottenkad S.S.H.S	Pottenkad. P.O., 685 569
25	Punnayar S.T.H.S	Kanjikuzhy - 685 602
26	Purapuzha S.S.H.S	Purapuzha. P.O., 685 583
27	Thodupuzha S.S.H.S.S	Thodupuzha. P.O., 685 584
28	Thokkupara S.S.H.S	Thokkupara. P.O., 685 565
29	Thudanganad S.T.H.S	Thudangand. P.O., 685 587
30	Udumbannoor S.G.H.S	Udumbannoor. P.O., 685 595
31	Vannappuram S.N.M. VHSS	Vannappuram. P.O., 685 582
32	Vazhathope S.G.H.S.S	Thadiyampadu. P.O., 685 602
33	Vazhithala S.S.H.S.S	Vazhithala. P.O.
34	Velliyamattam C.K. VHSS	Velliyamattam - 685 583
Private Unaided Schools		
1	Adimaly S.V.V.E.M.H.S	Adimaly - 685 561
2	Idukki SVVS. EMHS	Idukki Colony - 685 602
3	Moolamattom SH.EM.HS.S	Moolamattom .P.O., 685 589
4	Perumpillichira Al-Azhar School	Perumpillichira P.O
5	Thodupuzha D.E.M.H.S.S	Thodupuzha. P.O., 685 585
6	Thodupuzha J.R.E.M.H.S.S	Thodupuzha. P.O., 685 584
Educational District - Kattappana		
Government High Schools		
1	Amaravathy HSS	Amaravathy. P.O.
2	Anakkara HS	Anakkara. P.O., 685 512
3	Chakkupallam THS	Chakkupallam. P.O.
4	Chempakappara HS	Chempakappara - 685 510
5	Chundavurrai HSS	S.P. Puram. P.O., 685 617
6	Devikulam HSS	Devikulam. P.O., 685 613
7	Erattayar HS	Santhigaram. P.O.2875368
8	Ezhukumvayal HS	Ezhukumvayal - 685 553
9	Guderala HS	Munnar. P.O., 685 612

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10	Kallar HSS	Kallar. P.O., 685 552
11	Kanayankavayal HS	Kanayankavayal. P.O.
12	Kannampady GT HS	Mathaippara. P.O., 685 505
13	Kattappana THS	Kattappana. P.O., 685 508
14	Kumily HS & VHSS	Kumily. P.O.
15	Kuttiplanganad HSS	Kuttiplangad - 686 514
16	Marayoor HSS	Sahayagiri. P.O., 685 620
17	Munnar MRS	Munnar. P.O., 685 612
18	Munnar VHSS	Munnar. P.O., 685 612
19	Murikkattukudy HSS	Thoppippala. P.O., 685 511
20	Nedumkandam VHSS	Nedumkandam. P.O., 685 553
21	Pathinaramkandam HSS	Rajamudy. P.O., 685 602
22	Peermade (CPM) HSS	Peeramade. P.O., 685 531
23	Peermade Govt. MRS Tamil	Peermade. P.O.
24	Rajakumary HS & VHSS	Rajakumary North - 685 531
25	Santhanpara HS	Santhanpara. P.O., 685 619
26	Sothuparai HS	Munnar. P.O., 685 612
27	Thoprankudy HSS	Thopramkudy. P.O.
28	Vagamon HS	Vagamon. P.O.
29	Vaguvarrai HS	Thalayar. P.O., 685 614
30	Valacode GTHS	Mathaippara. P.O., 685 505
31	Vattavada GHS	Koviloor. P.O., Oorkad
Private Aided Schools		
1	Calvarymount CHS	Calvarymount - 685 515
2	Cheenthalar SSHSS	Passuppara. P.O.
3	Chemmannar SX HSS	Udumbanchola - 685 554
4	Chinnakanal FM HS	Chinnakanal-685618
5	Chinnar SJHS	Chinnar. P.O., 685 501
6	Elappara PHSS	Elappara. P.O., 685 501
7	Erattayar ST HSS	Erattayar. P.O., 685 514
8	Kanthallor SHHS	Kanthallor. P.O., 685 620
9	Kanthippara SSHS	Arivilamchal. P.O., 685 554
10	Kattappana SG HSS	Kattappana. P.O., 685 5152
11	Koottar NSS HSS	Koottar. P.O.
12	Kuzhitholu Deepa HS	Kuzhitholu. P.O., 685 551
13	Mariyapuram SMHS	Mariyapuram. P.O., 685 602
14	Marykulam SMHSS	Ayyappancoil. P.O.
15	Mlamala FHS	Thengakal. P.O., 685 538
16	Mukkulam SGHS	Mukkulam East - 686 514
17	Mundakayam SAHS	Mundakkayam East. P.O.
18	Munnar LFGHS	Munnar. P.O., 685 612
19	Murikkassery SMHSS	Murikkassery. P.O.
20	Murukady MAIHS	Murukady. P.O.

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21	Nariyampara MMHS	Nariyampara. P.O.
22	Peruvanthanam SJHSS	Peruvanthanam. P.O.
23	Pullikkanam STHS	Pullikkanam. P.O.
24	Puttady NSP HSS	Puttady. P.O., 685 551
25	Ramakalmettu SHHS	Ramakalmettu - 685 552
26	Senapathy MB VHS	Senapathy. P.O., 685 619
27	Thankamany ST HSS	Thankamany. P.O., 685 515
28	Thekemala SMHS	Paloorkavu. P.O., 685 532
29	Upputhara SP HSS	Upputhara. P.O., 685 505
30	Upputhodu SJHS	Upputhodu. P.O., 685 602
31	Valiathovala CRHS	Valiathovala - 685 510
32	Vandanmedu MES HS	Vandanmettu. P.O., 685 551
33	Vandanmettu SAGHS	Vandanmettu. P.O., 685 551
34	Vandiperiyar PHS	Vandiperiyar - 685 533
35	Vattavada KEHS	Koviloor. P.O., Oorkad
36	Vazhavara SMHS	Vazhavara - 685 515
37	Vellaramkunnu SM HSS	Vellaramkunnu - 685 535
38	Vellayamkudy SJ HSS	Vellayamkudy. P.O.
39	Vimalagiri VHS	Vimalagiri. P.O., 685 602
Private Unaided Schools		
1	Aranakkal AVT Memorial CMSHS	Aranakkal P O
2	Attappalam STEM HSS	Attappallam. P.O., 685 509
3	Kattappana OEM HSS	Kattappana. P.O., 685 5152
4	Nedumkandam SSHS	Nedumkandom. P.O., 685 553
5	Nedumkandam SDAEM HS	Nedumkandom. P.O., 685 553
6	Peermade MEMHSS	Peermade. P.O., 685 531

LIST OF LP SCHOOLS IN IDUKKI DISTRICT

A.E.O. - Arakkulam		
Sl.No.	Name of School	Address with Pincode
Government Schools		
1	Arakulam S.C.V.L.P.S	Arakulam. P.O.
2	Edattumala L.P.S	Edadu. P.O.
3	Elappally L.P.S	Elappally - 685 589
4	Kolapra L.P.S	Kudayathoor. P.O., 685 590
5	Kudayathoor New LPS	Kudayathoor. P.O., 685 590
6	Kulamavu IHEP LPS	Kulamavu. P.O.
7	Morkad LPS	Koovappally. P.O., 685 590
8	Muthiyamala LPS	Kudayathoor. P.O., 685 590
9	Vazhathope LPS	Thadiyampadu. P.O., 685 602

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Private Aided Schools		
1	Adoormala CMS LPS	Kudayathoor. P.O., 685 590
2	Edappilly P.LPS	Ottalloor. P.O.
3	Idukki S.M.LPS	Idukki Colony - 685 602
4	Kakkombu S.M. LPS	Ellumpuram. P.O.
5	Kanjar S.J.LPS	Kanjar. P.O.
6	Kannickal C.M.S.LPS	Kannickal. P.O.
7	Kudayathoor S.A.LPS	Kudayathoor. P.O., 685 590
8	Mulakuvally S.J.LPS	Manipara. P.O., 685 602
9	Thudangand S.T.LPLS	Thudangand. P.O., 685 587
10	Venmony S.N.LPS	Venmony. P.O., 685 602
A.E.O. - Thodupuzha		
Government Schools		
1	Arikuzha LPS	Arikuzha. P.O.
2	Chittoor NSS LPS	Puthuppariyaram. P.O.
3	Edavetty LPS	Edavetty. P.O., 685 588
4	Inchiyani LPS	Kalayanthani. P.O., 685 588
5	Kaloor LPS	Kaloor. P.O., 685 584
6	Karimkunnam LPS	Karimkunnam. P.O., 685 586
7	Kolani LPS	Kolani. P.O.
8	Kumaramangalam LPS	Kumaramangalam - 685 597
9	Kuninji LPS	Kuninji. P.O., 685 583
10	Malayinchi LPS	Malatinchi. P.O., 685 581
11	Manakkad NSS LPS	Manakkad. P.O., 685 584
12	Naliyani TLPS	Koovakkadam. P.O., 685 588
13	Pattayakudy TLPS	Pulickatotty. P.O., 685 582
14	Purapuzha LPS	Purapuzha. P.O., 685 583
15	Udumbannoor LPS	Udumbannoor. P.O., 685 595
16	Uppukunnu TLPS	Moolekade
Private Aided Schools		
1	Alakode IJLPS	Elamdesam. P.O., 685 588
2	Chilavu SALPS	Chilavu. P.O.
3	Chittoor LFLPS	Puthuppariyaram. P.O.
4	Elamdesam SJLPS	Elamdesam. P.O., 685 588
5	Ezhanikoottam SSLPS	Cheenikuzhi. P.O.
6	Ezhumuttam SMLPS	Ezhumattam. P.O.
7	Kaliyar SMLPS	Kaliyar. P.O., 685 582
8	Karimannoor HFLPS	Karimannoor. P.O., 685 581
9	Kodikulam S.MLPS	Kodikulam. P.O., 685 582
10	Kolady STLPS	Vazhithala. P.O.
11	Kumbankallu BTMLPS	Thodupuzha East - 685 585
12	Mullaringadu NLPS	Mullaringad. P.O., 685 582
13	Neyyassery SNCMLPS	Neyyassery. P.O., 685 581

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14	Pallickamury LFLPS	Karimannoor. P.O., 685 581
15	Pannimattam SJLPS	Pannimattam. P.O., 685 588
16	Parappuzha SJLPS	Parapuzha. P.O., 685 582
17	Pariyaram SNLPS	Udumbannoor. P.O., 685 595
18	Periyampira SJLPS	Puthuppariyaram. P.O., 685 584
19	Perumpillichira PLPS	Perumpillichira. P.O.
20	Thennathoor SMLPS	Parapuzha. P.O., 685 582
21	Thommankuthu SJLPS	Thommankuthu. P.O., 685 581
22	Udumbannoor SJLPS	Udumbannoor. P.O., 685 595
23	Vadakummury BTM LPS	Vadakummury. P.O., 685 586
24	Vengaloor SALPS	Vazhithala. P.O.
25	Vettimattam PLPS	Vettimattam. P.O., 685 588
Private Unaided School		
1	Manakadakad SVB	Manakad. P.O.
2	Thodupuzha SVBLPS	Thodupuzha. P.O., 685 584
3	Udumbannoor Al-Ameen School	Udumbannoor. P.O., 685 595
4	Vimalalayam EMLPS	Thodupuzha East - 685 585
A.E.O. - Adimali		
Government Schools		
1	Anaviratty LPS	Anaviratty. P.O.
2	Chelachuvadu L.P.S	Chelachuvadu - 685 602
3	Irumpupalam LPS	Valara. P.O.
4	Kathippara LPS	S.Kathippara. P.O.
5	Kanjikuzhy L.P.S	Chelachuvadu - 685 602
6	Keerithodu L.P.S	Keerithodu. P.O., 685 602
7	Konnathady LPS	Konnathady. P.O.
8	Mullarikkudy LPS	Mullarikkudy, Adimali
9	Muthirapuzha LPS	Mukkudam. P.O.
10	Nanki LPS	Kanjikuzhy - 685 602
11	Pazhampillichal LPS	PadAidedidedp. P.O.
12	Pettimudy LPS	Vattayar. P.O.
13	Sengulam LPS	Sengulam. P.O.
14	Thattekkanny G.LPS	Thattekkanny. P.O., 685 602
15	Vellathooval LPS	Vellathooval. P.O.
Private Aided Schools		
1	Anakulam SJ LPS	Munnar. P.O.
2	Ellakkal SALPS	Ellakkal. P.O.
3	Kallarkutty SJ LPS	Kallarkutty. P.O.
4	Mankadavu SD LPS	Koompanpara. P.O.
5	Makkuvally S.N.LPS	Maniyarankudy - 685 602
6	Mazhuvady T.LPS	Kanjikuzhy - 685 602
7	Mukkudam VLPS	Mukkudam
8	Parathode SG LPS	Konnathady. P.O.

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9	Pottankad SLPS	Pottankad
10	Sellyampara PMS LPS	Vellathooval. P.O.
Private Unaided Schools		
1	Thellithode SJ LPS	Mankuva P.O
A.E.O. - Kattappana		
Government Schools		
1	Ayyappancoil LPS	Ayyappancoil. P.O.
2	Idinjamala LPS	Idinjamala. P.O.
3	Kanchiyar TLPS	Kanchiyar. P.O.
4	Karikkenmedu GLPS	Prakash. P.O., 685 515
5	Karimkulam LPS	K.chappath. P.O.
6	Karimpan LPS	ManipAidedra. P.O.
7	Kiliyarkandam LPS	Prakash. P.O.
8	Kozhimala LPS	Thoppippala. P.O.
9	Kuthirakkallu LPS	Vimalagiri. P.O.
10	Pookulam LPS	Chenkara. P.O.
Private Aided Schools		
1	Calvarymount CLPS	Calvarymount. P.O.
2	Chackupallom SD LPS	Chackupallom. P.O.
3	Chempakapara SP LPS	Chempakappara. P.O.
4	Chempakappara SM LPS	Perinchankutty. P.O.
5	Eattithoppu VM LPS	Eattithoppu. P.O.
6	Ezhukumvayal JM LPS	Ezhukumvayal. P.O.
7	Idukki NLPS	Nayarupara. P.O.
8	Kanjiyar SM LPS	Kanjiyar. P.O.
9	Kattappana SG LPS	Kattappana. P.O.
10	Kochuthovala SJ LPS	Kochuthovala. P.O.
11	Labbakkada LM LPS	Thoppippala. P.O.
12	Mariyapuram SM LPS	MarAidedpuram. P.O.
13	Marykulam LPS	Ayyappancoil. P.O.
14	Murickssery SM LPS	Murickassery. P.O.
15	Nellippara SX LPS	Nellippara. P.O.
16	Poomankandam CR LPS	Murickassery. P.O.
17	Rajamudy CK LPS	Rajamudy. P.O., Upputhodu
18	Thankamany ST LPS	Thankamany. P.O.
19	Thopramkudy SMG LPS	Thopramkudy. P.O.
20	Vallakadavu SA LPS	Kadamakuzhy. P.O.
21	Vellayamkudy SJ LPS	Vellayamkudy. P.O.
22	Vimalagiri VLPS	Vimalagiri. P.O.
Private Unaided Schools		
1	Puliyannmala LF LPS	Puliyannmala P.O
2	Thoppippala SN EM LPS	Thoppippala. P.O.

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A.E.O. - Munnar		
Government Schools		
1	Champakad TLPS	Kanthallur. P.O.
2	Chempakathozhu TLPS	SurAidednelly. P.O.
3	Chikkanamkudy LPS	Mankulam. P.O., 685 565
4	Devikulam LPS	Devikulam. P.O.
5	Edamalakudy TLPS	Munnar. P.O.
6	Marayoor LPS	Marayoor. P.O.
7	Munnar ATPS	Munnar. P.O.
8	Munnar LPS	Munnar. P.O.
9	Pazhathottam LPS	Koviloor. P.O., 685 615
10	Suriyanelly B.L. Ram LPS	Surianelly. P.O., 685 618
11	Thalayar LPS	Thalayar. P.O.
12	Venad LPS	Bisonvally. P.O.
Private Aided Schools		
1	Arivikad ALPS	Mattupetty. P.O.
2	Chinnakanal FM LPS	Chinnakanal. P.O.
3	Chittavurrai ALPS	Yellappetty. P.O.
4	Chockanad ALPS	Munnar. P.O.
5	Chundavurrai ALPS	S.P. Puram. P.O.
6	Devikulam ALPS	Devikulam. P.O.
7	Grahamsland ALPS	Munnar. P.O.
8	Guderle ALPS	Munnar. P.O.
9	Gundumallay ALPS	Mattupetty. P.O.
10	Kadalaar ALPS	Munnar. P.O.
11	Kalaar ALPS	Munnar. P.O.
12	Kanimallay ALPS	Munnar. P.O.
13	Kanthaloor ALPS	Kanthalloor. P.O.
14	Kanthaloor MC LPS	Kanthalloor. P.O.
15	Kundaly ALPS	S.P. Puram. P.O.
16	Letchmi ALPS	Munnar. P.O.
17	Luckham ALPS	Thalliar. P.O.
18	Madupetty ALPS	Mattupetty. P.O.
19	Nediar ALPS	Munnar. P.O.
20	Nettigudi ALPS	Munnar. P.O.
21	Nyamakad ALPS	Munnar. P.O.
22	Pallanad SM LPS	Marayoor. P.O.
23	Periakanal ALPS	Chinnakanal. P.O.
24	Periavurrai ALPS	Munnar. P.O.
25	PIUS Nagar SP LPS	Marayoor. P.O.
26	Pullivasal ALPS	Munnar. P.O.
27	Rajamallay ALPS	Munnar. P.O.
28	Sevenmallay ALPS	Munnar. P.O.

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

29	Silentvally ALPS	Munnar. P.O.
30	Sothuparai ALPS	Munnar. P.O.
31	Surianalle ALPS	Surianelly. P.O.
32	Thenmally ALPS	Munnar. P.O.
33	Yellapetty ALPS	Yellappetty. P.O.
Private Unaided School		
1	Marayoor SM LPS	Munnar P.O
2	Michalgiri SM LPS	Marayoor - 685 620
A.E.O. - Peermade		
Government Schools		
1	Arudai LPS	Peermade. P.O., 685 531
2	Cheenthalar TLPS	Chinnar. P.O., 685 501
3	Chottupara TLPS	Chottupara. P.O.
4	Fairfield TLPS	Fairfield. P.O., 685 504
5	Glenmary LPS	Glenmary. P.O.
6	Granby LPS	Granby. P.O., 685 533
7	Kottamala LPS	Kottamala. P.O., 685 503
8	Ladrum LPS	Lekshmicoil. P.O.
9	Murinjapuzha LPS	Murinjapuzha - 685 532
10	Pasupara Puthuval LPS	Pasuppara. P.O., 685 502
11	Vandiperiyar LPS	Vandiperiyar. P.O.
Private Aided Schools		
1	Amalagiri ST LPS	Peruvanthanam - 685 532
2	Arnakal Estate LPS	Arnakal. P.O., 685 533
3	Chenkara KP LPS	Chenkara. P.O.
4	Cheruvallikulam SG LPS	Cheruvallikulam. P.O.
5	Dymock Lutheran LPS	Dymock. P.O.
6	Haileyburia PLPS	Haleyburia. P.O.
7	Kanayamkavayal SMLPS	Kanayamkavayal. P.O.
8	Karadikuzhy PLPS	Karadikuzhy. P.O., 685 531
9	Kuttikanam SJ LPS	Kuttikanam. P.O., 685 531
10	Lonetree PLPS	Lonetree. P.O.
11	Mulamkunnu Kam LPS	Mulamkunnu. P.O.
12	Mundakayam SL LPS	Mundakayam. P.O., 686 513
13	Mundakayam TR&T CO. LPS	Mundakayam. P.O., 686 513
14	Murukady MAI LPS	Murukady. P.O., 685 536
15	Pallikkunnu PLPS	Pallikkunnu. P.O.
16	Pasuppara EKM LPS	Pasuppara. P.O.
17	Peruvanthanam SJ LPS	Peruvanthanam - 685 532
18	Pullikkanam ST LPS	Pullikkanam. P.O.
19	Twiford Estate LPS	Fairfield. P.O., 685 504
20	Upputhara OM LPS	Upputhara. P.O., 685 505
21	Vadakkemala SS LPS	Vembly. P.O.

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

22	Wallardie SM LPS	Vandiperiyar. P.O.
Private Unaided School		
1	Pasuppara TM LPS	Pasuppara. P.O.
A.E.O. - Nedumkandom		
Government Schools		
1	Arivilamchal TLPS	Arivilachal. P.O., 685 619
2	Balagramsouth PM LPS	Sanniyacioda. P.O.
3	Kallar LPS	Kallar. P.O., 685 552
4	Kallar 3 Camp LPS	Balagram. P.O.
5	Mali LPS	Mali. P.O.
6	Mavady LPS	Nedumkandom. P.O., 685 553
7	Panniar LPS	Panniar. P.O., 685 621
8	Parathode LPS	Kailasanadu. P.O., 685 553
9	Puliyamala TS	Puliyamala. P.O.
10	Pushpakandam LPS	Pushpakandam. P.O., 685 552
11	Sasthanada LPS	Sasthanada, Nedumkandom
12	Udumbanchola LPS	Udumbanchola - 685 554
1	Anakkara IMS LPS	Anakkara. P.O.
2	Champalam SM LPS	Champalam. P.O.
3	Chottupara RPM LPS	Chottupara. P.O., 685 552
4	Cumbummettu MLPS	Cumbummettu. P.O., 685 551
5	Kochara SJ LPS	Nettithozhu. P.O., 686 511
6	Kompayar ST LPS	Kompayar. P.O., 685 552
7	Koottar SN LPS	Karunapuram. P.O.
8	OldKochara SX LPS	Kochara. P.O., 685 551
9	Pachady SN LPS	Pachady. P.O., 685 553
10	Pampadumpara PTM LPS	Pampadumpara. P.O.
11	Poopara PLPS	Poopara. P.O.
12	Sleevamala SB LPS	C.Kuthumkal. P.O.
13	Thooval SJ LPS	Mavady. P.O., 685 553
14	Vandanmedu NSS LPS	Chellrcoil. P.O., 685 509

LIST OF UP SCHOOLS IN IDUKKI DISTRICT

List of UP Schools in Idukki District		
A.E.O. - Arakkulam		
Sl.No.	Name of School	Address with Pincode
Government Schools		
1	Karippalangadu G.T.UPS	Karippalangadu - 685 601
2	Moolamattom IHEPUPS	Moolamattom .P.O., 685 589
3	Painavu G.UPS	Painavu. P.O.
4	Pathippilly G.T.UPS	Pathippilly. P.O.

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

5	Poochapra G.UPS	Devarupara. P.O., 685 586
Private Aided Schools		
1	Arakulam S.T.UPS	Arakulam. P.O.
2	Elappally C.M.S.UPS	Elappally - 685 589
3	Manippara S.M.UPS	Manippara. P.O., 685 602
4	Moolamattom S.G. UPS	Moolamattom .P.O., 685 589
5	Vazhathopu S.G.UPS	Idukki Colony - 685 602
6	Venmony S.G.UPS	Venmony. P.O., 685 602
A.E.O. - Thodupuzha		
Government Schools		
1	Arikuzha Ass.UPS	Arikuzha. P.O.
2	Kanjiramattam UPS	Thodupuzha East - 685 585
3	Karimannoor UPS	Karimannoor. P.O., 685 581
4	Nedumattam UPS	Vandamattam. P.O.
5	Thodupuzha DIET Lab UPS	Thodupuzha P.O
6	Thondikuzha UPS	Muthalakodam. P.O., 685 605
Private Aided Schools		
1	Chalassery VJ UPS	Ezhumattom P.O-685605
2	Cheppukulam S.T.UPS	Cheppukulam. P.O., 685 581
3	Chunkom SJUPS	Kolani. P.O.
4	Ezhalloor SSUPS	Kumaramangalam - 685 597
5	Kallanikal SGUPS	Thekubhagam. P.O., 685 585
6	Koduvely LFUPS	Koduvely. P.O., 685 582
7	Meenmutty MMUPS	Kalayanthani. P.O., 685 588
8	Mulappuram TCMM UPS	Mulappuram. P.O.
9	Muthalakodam SGUPS	Muthalakodam. P.O., 685 605
10	Nediyakad LFUPS	Karimkunnam. P.O., 685 588
11	Nediyasala SMUPS	Nediyasala. P.O.
12	Pannoor NSSUPS	Pannoor. P.O., 685 581
13	Paynkulam STUPS	Mylacompu. P.O.
14	Perumpillichira SJUPS	Perumpillichira. P.O.
15	Thalayanad MBUPS	Anchiry. P.O., 685 585
16	Thattarathatta SPUPS	Thattarathatta - 685 581
17	Thodupuzha SSUPS	Thodupuzha. P.O., 685 584
18	Vazhakala LFUPS	West Kodikulam - 685 582
19	Velliyamattam SJUPS	Velliyamattam - 685 583
20	Vengalloor TMUPS	Vengalloor. P.O.
Private Unaided Schools		
1	Karimannoor Winners English School	Karimannoor. P.O., 685 581
A.E.O. - Adimali		
Government Schools		
1	Ayiramarcre JUPS	Mannamkandam. P.O.

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

2	Kallar Vattiyar UPS	Vattiyar. P.O.
3	Machiplavu UPS	Machiplavu. P.O.
4	Mannamkandam TUPS	Koragatty. P.O.
5	Muniyara UPS	Muniyara. P.O.
6	Pazhayaviduthy UPS	Rajakad. P.O.
7	Pazhayarikadom G.UPS	Pazhayarikadom - 685 602
8	Thokkupara UPS	Thokkupara. P.O.
Private Aided Schools		
1	Churuly S.N.UPS	Chelachuvadu - 685 602
2	Josegiri SJ UPS	Josegiri. P.O.
3	Kanjikuzhy S.M.UPS	Kanjikuzhy. P.O.
4	Kollimalai SM UPS	Ponmudy. P.O.
5	Konnathady PUPS	Konnathady. P.O.
6	Mankulam SM UPS	Mankulam. P.O., 685 565
7	Mankuva ST UPS	Mankuva. P.O.
8	Nankicity S.N.UPS	Kanjikuzhy. P.O.
9	Panamkutty SJ UPS	Panamkutty. P.O.
10	Sellyampara SNV UPS	Sellyampara. P.O.
A.E.O. - Kattappana		
Government Schools		
1	Perinchankutty UPS	Perimchankutty. P.O.
2	Thankamany UPS	Kamakshy. P.O.
3	Upputhodu UPS	Upputhodu. P.O.
4	Vazhavara UPS	Vazhavara. P.O.
Private Aided Schools		
1	Calvarymount CUPS	Calvarymount. P.O.
2	Bethel SJ UPS	Bethel. P.O.
3	Kalthotty AMUPS	Kalthotty. P.O.
4	Kanchiyar SM UPS	Kanchiyar. P.O.
5	Kattappana SJ UPS	Vellayamkudy. P.O.
6	Killiyarkandam HF UPS	Perumthotty. P.O.
7	Kochera AKM UPS	Nettithozhu. P.O.
8	Kochuthovala SJ UPS	Kochuthovala. P.O.
9	Marykulam SM UPS	Ayyappancoil. P.O.
10	Narakakkanam SJ UPS	Narakakkanam. P.O.
11	Padamughom SH UPS	Padamughom. P.O.
12	Pandipara SJ UPS	Pandipara. P.O.
13	Udyagiri SM UPS	Prakash. P.O.
14	Vallakadavu SA UPS	Kadamakuzhy. P.O.
A.E.O. - Munnar		
Government Schools		
1	Chinnakanal UPS	Chinnakanal. P.O.
2	Kalaar UPS	Munnar. P.O.

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

3	Kannimallay UPS	Munnar. P.O.
4	Letchemi UPS	Munnar. P.O.
5	Yellpatty UPS	Yellappetty. P.O.
Private Aided Schools		
1	Korandakkad VUPS	Mattupetty. P.O.
2	Marayoor SM UPS	Marayoor. P.O.
Private Unaided Schools		
1	PIUS Nagar SP UPS	Marayoor - 685 620
A.E.O. - Peerumade		
Government Schools		
1	Chemmannu UPS	Elappara. P.O., 685 501
2	Elappara UPS	Elappara. P.O., 685 501
3	Karimtharuvi UPS	Chinnar. P.O., 685 501
4	Kattadikavala HW UPS	Cheenthalar. P.O.
5	Kumily TUPS	Kumily. P.O., 685 509
6	Paloor kavu UPS	Paloor kavu. P.O., 685 532
7	Pambanar UPS	Pambanar. P.O., 685 537
8	Peruvanthanam UPS	Peruvanthanam - 685 532
9	Vanchivayal TUPS	Vallakadavu. P.O.
10	Vandiperiyar UPS	Vandiperiyar - 685 533
Private Aided Schools		
1	Anavilasam SG UPS	Anavilasam. P.O.
2	Meloram SMG UPS	Meloram. P.O.
3	Mundakayam SA UPS	Mundakayam. P.O.
Private Unaided Schools		
1	Vandiperiyar SJ UPS	Vandiperiyar - 685 533
A.E.O. - Nedumkandom		
Government Schools		
1	Kallar CS UPS	Chottupara. P.O.
2	Kajanappara UPS	Kajanappara. P.O., 685 619
Private Aided Schools		
1	Manjappara CR UPS	Manjappara. P.O.
2	Nedumkandam PUPS	Nedumkandom. P.O., 685 553
3	Nedumkandam SS UPS	Nedumkandom. P.O., 685 553
4	Pooppara SMG UPS	Kulaparachal. P.O.
5	Pothinkandam SN UPS	Kuzhitholu. P.O.
6	Puliyannamala KE UPS	Puliyannamala. P.O.
7	Rajakumary HQ UPS	Rajakumary. P.O.
8	Thottikanam MGM UPS	Senapathy. P.O.
Private Unaided Schools		
1	Puttady SM UPS	Puttady P.O.

ANNEXURE 3

POLICE DEPARTMENT

Police control Rooms Contact NO	100/04862 221100
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SI. No	Designation	Phone No.	Mobile No. Of Charge Officer
1.	Supdt of police	04862 23254	9497996981
2.	Dy sp Admaliy	04862 232354	
3.	Dy sp Thodupuzha	04862 227472	
4.	Dy sp Munnar	04862 230382	
5.	Dy Kattappana	0486 272978	

SI. No	Designation	Phone No.	Mobile No. Of Charge Officer
1.	CI Thodupuzha	04862 222494	
2.	CI Kaliyar	04862 245601	
3.	CI Kanjar	04862 252494	
4.	CI Idukki	04862 235275	
5.	CI Kanjikuzhy	04862 239280	
6.	CI Munnar	04865 231150	
7.	CI Devikulam	04865 264350	
8.	CI Adimaly	04864 222186	
9.	CI Nedumkandam	04868 233260	
10.	CI Kattappana	04868 273263	
11.	CI Kumaily	04869 223150	
12.	CI Peermade	04869 232049	

Sl.No	Police Station	Phone No.	Mobile No. of Charger Officer
1	Thodupuzha	04862-222494	9497980390
2	Karimkunnam	04862-242336	9497980371
3	Kaliyar	04862-245334	9497980366
4	Karimannoor	04862-262434	9497980370
5	Kanjar	04862-252034	9497980367
6	Kulamave	04862-259904	9497980362
7	Idukki	04862-235229	9497980364
8	Murikaserry	04862-263250	9497980379
9	Kanjikuzhy	04862-239280	9497980368
10	Karimanal		9497980369

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11	Munnar	04865-230321	9497980378
12	Marayoor	04865-252210	9497980377
13	Devikulam	04865-264225	9497980363
14	Santhanpara	04868-247211	9497980385
15	Adimaly	04864-222145	9497980361
16	Rajakkad	04868-242325	9497980384
17	Vellathooval	04864-276254	9497980389
18	Kattapana	04868-272263	9497980372
19	Vandanmedu	04862-277050	9497980387
20	Nedumkandam	04868-232045	9497980380
21	Cumbummettu	04868-279250	9497980374
22	Kumily	04869-222049	9497980375
23	Vandiperiyar	04869-252244	9497980388
24	Peerumedu	04869-232085	9497980381
25	Peruvanthanam	04869-280347	9497980383
26	Upputhara	04869-244315	9497980386

ANNEXURE 4

HEALTH INSTITUTIONS

Officer in Charge	Phone Number/Fax	Mobile
District Medical Officer	0486-20233030	9495383418

Sl.No.	Medical Institutions	Total Beds	Tel. no	Email
1	District Hospital Idukki	130	04862-232444, 232474	dhidukki@gmail.com
2	THQH Thodupuzha	144	4862-222630	supdtthqhtdpa@gmail.com
3	THQH Peermade	54	48629-232224	thqhpeermade@yahoo.in
4	THQH Adimali	66	4864-222670	chcadimali@yahoo.com
5	THQH Nedumkandom	106	04868-232650	supdtchc@yahoo.com
6	CHC Purapuzha	6	4862273424	chcpurapuzha@gmail.com
7	CHC Purapuzha	0	4868241529	

PRIMARY HEALTH CENTRE

Sl.No.	Name of PHC	Tel.No	Email
1	PHC, Alakode	04862 -275151	phc.alakod@gmail.com
2	PHC, Arakulam	04862-253399	arakulamphc@gmail.com
3	PHC, Edavetty	04862-211110	phcedavetty@gmail.com
4	PHC, Karimannoor	04862-261230	phckarimannoor@gmail.com

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5	PHC, Kodikulam	04862-265123	phckodikulam@yahoo.com
6	PHC, Kudayathoor	04862-253255	mophckudayathoor@gmail.com
7	PHC, Poomala	04862-282500	phcpoomala@gmail.com
8	PHC, Poochapra	04862-283028	phcpoochapra@gmail.com
9	PHC, Thattakuzha	04862-272267	phcthattakuzha@ymail.com
10	PHC, Karimkunnam	04862-243310	phckarimkunnam@gmail.com
11	PHC, Kumaramangalam	04862-200889	phckumaramangalam@gmail.com
12	PHC, Manakkad	04862-202009	phcmanakad@gmail.com
13	PHC, Bisonvalley	04865-285819	
14	PHC, Chinnakkanal	04868-249406	phcchinnakanal@gmail.com
15	PHC, Rajakumari	04868-246019	phcrky@gmail.com
16	PHC, Santhanpara	04868-247747	medicaloffice747@gmail.com
17	PHC, Senapathy	04868-244390	mosenapathy@rediffmail.com
18	PHC, Vahathope	04862-235186	vazhathopephcy@rediffmail.com
19	PHC, Vannapuram	04862-247787	phcvpm@gmail.com
20	PHC, Elappara	04869-242556	phcelappara@gmail.com
21	PHC, Kokkayar	04869-210963	phckokkayar@gmail.com
22	PHC, Kumily	04869-222978	kumilyphc@gmail.com
23	PHC, Peruvanthanam	04869-210910	phcperuvanthanam@gmail.com
24	PHC, Devikulam	04865-264353	phcdvkm@gmail.com
25	PHC, Deviyar Colony	04864-272601	mophcdvcy@gmail.com
26	PHC, Kallar	04864-278718	
27	PHC, Kanthalloor	04865-246487	phckanthalloor@gmail.com
28	PHC, Konnathady	04868-262560	phckonnathady@gmail.com
29	PHC, Mankulam	04864-218906	
30	PHC, Marayoor	04865-252372	chcmarayoor@gmail.com
31	PHC, Vellathooval	04864-277167	ohcvellathooval@gmail.com
32	PHC, Vattavada	04865-214431	
33	PHC, Ayyappankovil	04869-244742	phcayyappa2009@yahoo.in
34	PHC, Chakkupallam	04868-284670	phcchakkupallam@gmail.com
35	PHC, Chempakappara	04868-225802	phcchempakappara@gmail.com
36	PHC, Kanchiyar	04868-271810	phckanchiyar@gmail.com
37	PHC, Kamakshy	04868-213297	kamakshyphc@yahoo.com
38	PHC, Mariyapuram	04862-236851	phcmariyapuram@gmail.com
39	PHC, K.P Colony	04868-221504	phckallar@gmail.com
40	PHC, Udumbanchola	04868-237045	phcudumbanchola@gmail.com

AMBULANCE

Sl.No.	Hospital	Tele. No.
1	G H Munnar	04865 230361
2	Taluk hospital Adimaly	04864 222670
3	Marayoor GP	04865 252279
4	Morning Star Hospital Adimaly	04864 222154
5	HMTA Murickassery	9447988876

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6	Alphonsa Hospital Murickassery	9446944906
7	Karuna Hospital Nedumkandom	04868 232055
8	Medical Trust Nedumkandom	04868 232057
9	St. John's Kattappana	04868 273230
10	KVVS Anakara	9447875988
11	District Hospital Idukki	04862 232444
12	NRHM Idukki	04862 233148
13	Archana Hospital Vannappuram	04862 233149
14	St. Mary's Hospital karimannoor	04862 262304
15	Devamatha Ambulance Service, Kalayanthi	9447207692
16	Bishop vyalin Hospital Moolamattom	04862 252305
17	Thodupuzha Municipality	04862 222711
18	Deenadaya Trust Thodupuzha	4862 227145 9447200632
19	Sneha deepam Thodupuzha	04862 224356
20	Holy Family Hospital Thodupuzha	04862 222231/ 222234
21	Chazhikatte Hospital Thodupuzha	04862 222445

ANNEXURE 5

TELEPHONE NUMBERS OF FIRE AND RESCUE DEPARTMENT IN IDUKKI

Office Name	Designation	Phone numbers
Assist. Divisional Officer, Fire & Rescue Services, Idukki	Asst. Divisional Officer	04862 236100 9497920116
Fire & Rescue Station, Idukki	Station Officer	04862 236100 9497920162
Fire & Rescue Station, Kattappana	Station Officer	04868 236100 9497920156
	Asst. Station Officer	04868 236100 949720157
Fire & Rescue Station, Thodupuzha	Asst. Station Officer	04862 222911 9497920161
Fire & Rescue Station, Munnar	Station Officer	04865 230290 9497920158
	Asst. Station Officer	04865 230290 9497920159
Fire & Rescue Station, Moolamattom	Station Officer	04862 253101 9497920234
Fire & Rescue Station, Peermade	Station Officer	04869 232300 9497920233

DETAILS OF AVAILABLE EQUIPMENT IN FIRE AND RESCUE DEPARTMENT

Sl.No.	Equipment	Idukki	Kattappana	Thodupuzha	Preemade	Munnar
1	Fire Engine Mobil turbo unit (MTU)	1	1	1		1
2	Jeep		1	1		
3	Chainsaw	1	1	1		2
4	Hydraulic equipment	5	1			
5	Lifebuoy	2	2			
6	Life Jacket	4	5			
7	Aska light		1			
8	Stretcher	1	1			
9	Water Lorry			1		
10	Portable pumb			1		2
11	Power Cutter			1		1
12	B.A Set	1		2		2
13	Ambulance	1				
14	Rubber Dinky	1				

**EARTH MOVING/ROAD CLEANING EQUIPMENTS
LIST JCBS AVAILABLE**

Sl.No.	Vehicle Regd No.	Owner
1	KL-01-W-9536	Chandrbose Thannipparayil Kallimali, rajakade P O
2	KL-02-P-249	Thangaraj, veterinary quarters Mara, Idukki
3	KL-02-W-7098	Narayanan, Thoppil, Koompanpara, Adimali
4	KL-06-C-A-5791	Varghese Koshi, Panjikattil House, Kattappana
5	KL-06-C-223	Shine T Joseph, Thodukayil, Konnakkamali
6	KL-06-C-243	Sunil Chummar, Vettichal Ho Upputhoduuse,

ANNEXURE 6

BSNL OFFICE IN IDUKKI DISTRICT

BSNL Area Manager	04862225401	Idukki, Thodupuzha
Divisional Engineer	222666	Idukki, Thodupuzha
D E T office	229191	Idukki, Thodupuzha
Accounts Officer	222004	Idukki, Thodupuzha
Sub Division Engineer	232350	Idukki, Idukki
BSNL Sub Division Engineer	263390	Idukki, Murikkassery
BSNL Sub Division Engineer	239198	Idukki, Kanjikuzhy

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BSNL Sub Division Engineer	237198	Idukki, Chelachuvadu
BSNL Sub Division Engineer	230198	Idukki, Karimban
BSNL Sub Division Engineer	275198	Idukki, Thankamani
BSNL Sub Division Engineer	235198	Idukki, Vazhathoppu
BSNL Sub Division Engineer	232198	Idukki, Idukki
BSNL Sub Division Engineer	282298	Idukki, Anakkara
BSNL Sub Division Engineer	238290, 223000	Idukki, Chemmannur
BSNL Sub Division Engineer	276198	Idukki, Irattayar
BSNL Sub Division Engineer	231298	Idukki, Ezhakumvayal
BSNL Sub Division Engineer	236198	Idukki, Kallar
BSNL Sub Division Engineer	285198	Idukki, Kochara
BSNL Sub Division Engineer	263198	Idukki, Murikkassery
BSNL Sub Division Engineer	269198	Idukki, Mullarikkudi
BSNL Sub Division Engineer	232198	Idukki, Nedukandam
BSNL Sub Division Engineer	262198	Idukki, Parathodu
BSNL Sub Division Engineer	262198	Idukki, Parathodu
BSNL Sub Division Engineer	270298	Idukki, Puliyanmala
BSNL Sub Division Engineer	242398	Idukki, Rajakkad

ANNEXURE 7

HAM Radio Operators

Sl.No.	Name of the Operator	Tel. No.	Mobile No.
1	K.N.Gopinathan, BIBINI, KARimannoor P.O	4862 225589	9744909722
2	A.P.Antony, elanjikal, Moolamattom	4862 252528	9446801015
3	Shaju, Mathew, Manajappillai, Perumbalichira, Thodupuzha	4862 248847	
4	Tijo Joseph, Maliyekal, Karikode, Thodupuzha	4862 224404	
5	T. K Omankuttan, Puthiyaparambil, Karimannoor	4862 262504	9446034504
6	Shambo Cheruthony	9447251699	
7	Felix Cheruthony	9495216960	
8	Manoj Cheruthony	9447214419	
9	Mathew Kattappana	4868 272608	9447395153
10	Gopi Erattayar	4868 276312	9446935118
11	Francis Cheruthony	4868 273340	9446689214

ANNEXURE 8

DAMS IN IDUKKI DISTRICT

General	Idukki	Cheruthony	Kulamave	Kallar	Erattayar
District	Idukki	Idukki	Idukki	Idukki	Idukki
River	Periyar	Cheruthony		Perijankutty	Perijankutty
Latitude	9 40N&952'NL	9 59'48N	9 48'5'NL	9 49'30'NL	9 48'35'NL
Longitude	76 53,E & 7751'E	76 58'E	76 53'E	77 9'20"E	77 6'20"E
Catchment area	650Km2				187Km2
Capacity	70500Mcft	1996.3 Mm3	1996.3 Mm3	0.793 Mcum	5.352 Mcum

General	Panniyar HEP		Pallivasal HEP	
	Anayirankal	Ponmudy	Kundala	Madupetty
District	Idukki	Idukki	Idukki	Idukki
River	Panniyar	Panniyar	Palar	Palar
Catchment area	65.68Sp Km	220.51 SqKm	38.83SqKm	105SqKm
Capacity	49.84Mm3	51.54Mm3	7.65Mm3	55.22Mm3

General	Sengulam HEP	Neriyamangalam HEP	Lower Periyar HEP
District	Idukki	Idukki	Idukki
Reservoir Name	Sengulam	Kallarkutty	Lower Periyar
River	Tributary of Kallar	Muthirapuzha	Periyar
Catchment area	5.18 Sp Km	81.6 SqKm	181.3 SqKm
Capacity	0.71 Mm3	230 Mcft	5.3 Mm3

MALANKARA DAM AT MUTTOM

River	Todupuzha
Location	At Muttom
Catchment area	153.50 SqKm
Capacity	42 Mm3

MULLAPERIYAR DAM

Age	114 years
Catchment area	232.80 Sq Km
Capacity at 136 ft level	11210 Mcft

ANNEXURE 9

MAJOR INDUSTRIAL UNITS IN IDUKKI DISTRICT

Sl.No	Location	Line of Product	Ph. No	E- Mail
1	Chancellor Paper Mills Ltd. , Arikuzha	Duplex board, Kraft paper	2541099 2541868	
2	Corubber Crumb Factory, Muttom	Cramb rubber		
3	*Guardian Controls Ltd., Vagallor	Electromechanical, Relays		guardian@md2.vsnl. net.in
4	Lunar Rubbers (P) Ltd., Hawai/leather chappal			lunars@satyam.net. in
5	*Hope Plantations Ltd.	Tea	(04869)232078	
6	Optima Pakagings Ltd.	Multilayer Plastic Film		
7	*Tata Tea Ltd.	Tea	2668356	
8	Tropical Plantations Ltd.			
9	Hill Valley Rubbers Pvt. Ltd.	Tea	26,224,412, 622, 331	
10	*Usha Polymers Pvt. Ltd.	Butyl inner tube for truck tyres		
11	Nagarjuna Herbal Concentrate Ayurvedic medicine	Ayurvedic Products	Alakkodu	

ANNEXURE 10

HELIPAD AVAILABLE IN THE DISTRICT

Sl. No	Name of the Helipad	Location	Whether any high tension exist near the ground	Authority & Contact No.
1	Boy's High School Ground, Thodupuzha	9 ⁰ 53' 54.2"N 760 43' 16.9"E	Yes	KSEB - 9496009360
2	New Man College Ground Thodupuzha	9 ⁰ 53' 48.8"N 760 43' 35.1"E	Yes	KSEB - 9496009360
3	N S S High School Ground Manakade	9 ⁰ 54' 06.3"N 760 41' 28.9"E	Yes	KSEB - 9496009360

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4	Govt. Polytechnic Ground, Muttom	9° 50' 29.2"N 76° 44' 15.4"E	Yes	KSEB - 9496009350
5	Helipad at Arakulam	9° 47' 01.9"N 76° 51' 04.7"E	No	
6	Golf Club Kundala Munnar	100 08' 46.5"N 77° 13' 01.3"E	No	
7	Tata High range Club Munnar	100 04' 11.9"N 77° 3' 53.7"E	No	
8	Tata Sports Ground Munnar	100 04' 33.6"N 77° 03' 49.0"E	No	
9	Grama Panchayat Stadium, Kattappana	9° 45' 02.1"N 77° 07' 06.5"E	Yes	KSEB - 9496009299
10	Govt College Ground, Kattappana	9° 45' 34.7"N 77° 06' 25.2"E	Yes	KSEB - 9496009299

ANNEXURE 11

CAMP DETAILS IN IDUKKI DISTRICT

Name & Address	Village
Anganvady New Colony Munnar	KDH
Govt. higher Secondary School Kunchithanny	Kunchithanny
Govt. H.S Adimaly	Vellathooval
Govt. higher Secondary School Kunchithanny	Kunchithanny
Pranavam Arts & Sports Club Pothupara	
Govt. L.P.S Kallarkutty (Kathippara)	
Community Hall Veellathooval	Veellathooval
Thodupuzha Taluk	
Govt.LPS Malayinchi	Udumbannoor
Anganvadi Nadayam	Karikodu
Govt LPS Thattakuzha	Udumbannoor
St.Joseph L.P.S Parekkavala	Udumbannoor
Govt. L.P.S Thattakuzha	Udumbannoor
Govt LPS amayappra	Udumbannoor
Govt.TLPS udumbannoor	Udumbannoor
JTCHS Kaliyar	Vannapuram
Govt.LPS East Kaloor	Kumaramangalam
Town U PS Vengalloor	Kumaramaangalam
TCMM Mulappuram	Neassery
St. Mary's H.S Thennathoor	Kodikulam
St. Mary's LP Thennathoor	
St. Joseph U.P Parappuzha	Kodikulam
Little Flower Vazhakkala	Kodikulam
Govt. UPS Nedumattom	Kodikulam
Govt.H.S padinjarekodikulam	Kodikulam

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Govt.hS koduveli	Kodikulam
Govt LPS Vazhakkala	Kodikulam
Malamkara Estate Layam	Karikunnam
Anganvady Kanjar	Velliyamattom
Christ King School Velliyamattom	Velliyamattom
Sidhik Khan Prvt. Bldg Elamdesam	Velliyamattom
Govt. Tribal LPS Naliyani	Velliyamattom
Angavady Methotty .	Velliamattom
Panchayathu community Hall,Kanjar	Kudaathoor
IHEP school,Moolamattom	Elappalli
Udumbanchola & Idukki	
Panniyar St. Mary's UPS Kollimala	Kanjiyar
Newman LPS Idukki	Kattapana
SNDP Building Parakkadavu, Ktpna	
Calvary LPS Calvarymount	Thankamanay
St. Mary's UPS Panniyarkutty	
St. Thomas UPS Mankuva	
Govt.LPS ,kozhimala	Kanjiyar
Govt.VHSS,Murikkattukudi	
MMHSS,Kalthotty	Kanjiyar
Karinkulam LPS.Chappath	Anavilasam
ST.Marys HSS Marykulam	Ayyappancoil
Anganvadi,anakkomban	Idukki
Government LPS,Thattekkanni	Idukki
PEERMADE	
GHS Vanchivayal	
Govt. Politechnique Vandipperiyar	
Panchayath H.S.S Elappara	
St. Philominas H.SS Elappara	
GLPS Karitharuvi, K.Chappath	

ANNEXURE 12

ADMINISTRATIVE SUBDIVISIONS

Number Code	Village	Taluk
1	Marayoor	Devikulam
2	Keezhanthoor	Devikulam
3	Kannan devan hills	Devikulam
4	Kottakamboor	Devikulam
5	Kantalloor	Devikulam

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6	Vattavada	Devikulam
7	Manakulam	Devikulam
8	Mannamkandam	Devikulam
48	Chinnakanal	Udumbonchola
9	Pallivasal	Devikulam
10	Anaviratty	Devikulam
49	Bisonvally	Udumbonchola
11	Kunnjithannuy	Devikulam
31	Vannappuram	Todupuzha
50	Rajakumari	Udumbonchola
13	Kanjikuzhy	Idukki
51	Poopara	Udumbonchola
12	Vellathooval	Devikulam
32	Kodikulam	Todupuzha
52	Rajakadu	Udumbonchola
33	Kumaramangalam	Todupuzha
14	Konnathady	Idukki
53	Sandhampara	Udumbonchola
34	Udumbannoor	Todupuzha
54	Gandhipara	Udumbonchola
35	Neyyassery	Todupuzha
55	Chadhuramgapara	Udumbonchola
36	Karimannur	Todupuzha
37	Todupuzha	Todupuzha
15	Vathikudy	Idukki
16	Idukki	Idukki
56	Udumbanchola	Udumbonchola
38	Karikode	Todupuzha
39	Manakkad	Todupuzha
17	Upputhoda	Idukki
57	Parathodu	Udumbonchola
40	Alakode	Todupuzha
58	Kalkunthal	Udumbonchola
41	Purapuzha	Todupuzha
42	Karinkunnam	Todupuzha
18	Thankamany	Idukki
43	Velliamattom	Todupuzha
44	Muttam	Todupuzha
19	Ayyappancoil	Idukki
45	Kudayathoor	Todupuzha
46	Arakulam	Todupuzha
59	Pampadumpara	Udumbonchola

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20	Kattappana	Idukki
60	Karunapuram	Udumbonchola
47	Elappilly	Todupuzha
61	Vandanmettu	Udumbonchola
21	Vagomom	Peermed
62	Anakara	Udumbonchola
22	Upputhara	Peermed
63	Anavilasom	Udumbonchola
64	Chakkupallam	Udumbonchola
23	Elappara	Peermed
24	Kumily	Peermed
25	Manjamala	Peermed
26	Periyar	Peermed
27	Kokkayar	Peermed
28	Peernade	Peermed
29	Milapra	Peermed
30	Puruvanthanam	Peermed

ANNEXURE 13

NATURAL HAZARD ZONATION MAP

TALUK	VILLAGE	LANDSLIDE	COASTAL EROSION	FLOODS	LIGHTNING	EARTH QUAKE (Magnitude)
THODUPUZHA	Kumaramangalam			Broad flat bottom valleys (Paddy fields) Ezhallur, Kothamangalam, Perumbilichira, Kappu, Vengallur	Low	
	Kodikulam			Banks of Kaliyar Puzha, Karimannur thodu & Broad flat bottom valleys (Paddy fields) Kodikulam, Parapuzha	Low	
	Vannappuram	High (Vannapuram, Forest) Low (Amailakandam, Thommankuthu, Vannapuram, Forest)		Banks of Kaliyar Puzha & Broad flat bottom valleys (Paddy fields) Vannapuram, Mulankuthi	Low	
	Kanjikuzhy	High (Thottakani, Kirithod, Chelachvada, Kanjikuzhi, Forest) Low (Varikkamuttom, Pazhayerikandam, Mailapuzha, Churuli, Forest)			Low	
	Udumbannoor	High (Chirikuzhi, Venniyanimudi, Mannukadu, Peringaserri, Forest) Low (Tattakuzha, Vellamthanam,		Banks of Kaliyar Puzha & Broad flat bottom valleys (Paddy fields) Kollapuzha, Tattakuzha, Edamaraku, Udumbannur, Chinikuzhi, Paniyaram, Amayappara	Low	

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		Kuzhimattom, Cheppukulam, Forest)				
Neyyassery		Low (Forest)		Banks of Kaliyar Puzha & Broad flat bottom valleys (Paddy fields) Neysseri, Malappuram	Low	
Karimannoor				Banks of Karimannoor thodu & Broad flat bottom valleys (Paddy fields) Pallikkamuri, Manakaithandu, Karimannur	Moderate	
Karikode				Banks of Thodupuzha Ar & Alakkode thodu	Low	
Todupuzha				Banks of Thodupuzha Ar & Broad flat bottom valleys (Paddy fields) Mudalakandam, Kolani	Moderate	
Manakkad				Banks of Thodupuzha Ar & Broad flat bottom valleys (Paddy fields) Periyambra, Pudupariyaram	Moderate	
Purappuzha		Low (Kurinji, Toyipara)		Broad flat bottom valleys (Paddy fields) Vengallur, Vazhitala, Purappuzha	Moderate	
Karimkunnam		Low (Nellapara Ottallur, Ilayarimala)		Broad flat bottom valleys (Paddy fields) Vadakkumuri, Mrala	Moderate	>3
Muttom		High (Kollankunnu, Kuzhiyanai, Tudonganad) Low (Kanayamala, Kollankunnu)		Broad flat bottom valleys (Paddy fields) Tudanganad	Low	
Alacode		High (Ilamdesam, Kondilapalli) Low (Vettimattom, Onnaramala)		Broad flat bottom valleys (Paddy fields) Ancheri, Kurichi	Moderate	
Velliamattom		High (ParambukaduMala, Pumala, Velliyamattom, Forest) Low (Mudiyamala, Kuvakandam,)			Moderate	
Idukki		High (Painavu, Karara, Forest) Low (Kulamavu,			Low	

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	Arakulam	Tadiyampadu, Forest) High (Mulamattom, Nadukanimala, Tumbikkalmala)			Moderate	
	Kudayathoor	High (Kudayattoormala, anakunnumudimala)			Moderate	
	Elappally	High (Edad,Chellikkal) Low (Kannikal,Manapad)			Moderate	
DEVIKULAM	Mannamkandam	High (Ayiram Acre, Chattupara, Machiplavukudi Forest) Low (Machiplavu, Deviarcolny, Forest)			Low	
	Mankulam	High (Mankulam, Forest) Low (Anakulam, Perumbamkuthu, Forest)			Low	
	Anaviratty	High (Kallavattayar, KallarEstate, KainakarEstate) Low (TaliyamEstate, PlamalaEstate)			Moderate	
	Vellathooval	High (Kallarkutti,Elakunnu, Forest) Low (Vellathuval, Mankadav,Forest)			Moderate	
	Kunnjithanny	High (Elakallu, Kunjithani Tukupara) Low (Anachal Chengalam)			Low	
	Pallivasal	High (Pallivas Estate, Mincutcolony) Low (PallivasalEstate, Chithirapuram)			Low	

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	Kannan Devan Hills	High (Munnar, Devikulam Estate, Kallar Estate, Mattupetti Estate, Valkadavu Estate, Kadalar Estate, Forest)		Low	
	Marayoor	High (Kudakkad, Forest) Low (Marayur, Pattikadu, Karumutti, Forest)		Low	
	Keezhanthoor	High (Vananthurai, Kolattamala, Chundakattumala, Forest) Low (Kilandur, Punganpalli, Forest)		Low	
	Kanthalloor	High (Kolachivayal, Puthur, kanthallur, Forest)		Low	
	Kottakamboor	High (Thattumpera, Kadavari, Kattamboor, Forest)		Low	
	Vattavada	High (Kovilur, Vattavada, Pattithalaichelimala, Forest)		Low	
UDUMBANCHOLA	Bisonvally	High (Pallivasal Estate, Periyakanal Estate, Korangupara) Low (Munnurekkar Estate Muduvakodu, Bisonvalley)		Low	5
	Chinnakanal	High (Nadupara, Periyakanal Estate, Nagamala Estate,)		Low	
	Poopara	High (Mullantandu, Panniyar Estate, Forest) Low (Pupara, koranpara, Panniyar Estate)	Banks of Panni Ar	Low	5.7

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Rajakumari	High (Manjakuzhi, Mullantand, Periyakanal Estate) Low (Kumbapara Estate, Periyakanal Estate)	Banks of Panni Ar & Broad flat bottom valleys (Paddy fields) Rajakumari	Low	
Rajakadu	Low (Rajakkad, Ennarsiti, kanakkapulla, Panniyarkutti)	Broad flat bottom valleys (Paddy fields) Rajakkad, Mullakanam	Low	
Konnathady	High (kambilikandam, Chinnar, Panikkankudi,) Low (Mullirikudi, Parathodu, Muk kudam, Injapatal, Ponmudi)	Broad flat bottom valleys (Paddy fields) Parahode	Low	
Udumbanchola	Low (Tinkalkadu Estate, Attupara Estate, Elappara Estate, Vallarakkan Estate, Leshmivilasom Estate)		Low	
Kanthipara	Low (Gandhipara Estate, Kuttankal)	Banks of Chemman Ar	Low	
Santhanpara	High (Nadupani Estate) Low (Ilayakod Estate, Apparpullu Estate, Estate, Kallipara Estate)	Banks of Panni Ar	Low	
Chadhuramga para	High (Talayankavu Estate)	Banks of Chemman Ar	Low	
Parathodu	High (Isvarimed Estate, Nainarmudi) Low (Nedumkandam, Asokavanam Estate, Valpara Estate)		Low	4.1
Kalkoonthal	Low (Ponnamala, Ittithoppu, Kumbanmala)	Banks of Irattayar	Low	3.4, 4.5

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Vathikudy	High (Chembakapara, Padamukkam) Low (Topinkudi, Mongapara, Vattikudi, Murikkasser)		Broad flat bottom valleys (Paddy fields) Padamukham, Vattikudi	Low	
Upputhode	High (KarikkumMedu) Low (RajamudiUpputod)			Low	
Thankamany				Low	
Kattappana	High (Tankamany Chattikuli, Idukki, Nayarupara) Low (Ampalamedu, Valiyakamakh, Veliyakatumali)		Broad flat bottom valleys (Paddy fields) ValiyaKandan, Vellayamkudi	Low	
Pampadumpara	Low (Pampadumpara Estate, Chakkakanam, Kallar, Mundiheruma)			Low	
Karunapuram	Low (Kurivikkonam, Kulitholuv mala, Prakkadavu)			Low	
Vandanmedu	Low (Anniyartolu, Puliya mala)			Low	
Anakkara	Low (Pampumpara)		Broad flat bottom valleys (Paddy fields) Kochara Ar	Low	
Chakkupallam	Low (Sitampara Estate, Chakkupalam Estate)		Broad flat bottom valleys (Paddy fields) Chakkupalam	Low	
Ayyappancoil	High (Tahsilpara Estate, Forest) Low (Karinkulam Estate, Kaltotti, Forest)		Broad flat bottom valleys (Paddy fields) Kachiyar	Low	>3
Anavilasom	Low (Tahsildarpara Estate, Madhavankanm Estate,)		Low		

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PEERMADE	Vagamon	High (Vedikuzhi, Alampally Estate) Low (Pulikanam Estate, Kotamala Estate, Chintala, Pasupara Estate, Vagamon Estate)			Moderate	
	Upputhara	Low (Muttuvattom, Chinthar Estate, Karintara Estate)			Low	
	Elappara	High (Annantambi Mala, Theppakulam Estate, Glanmary Estate) Low (Koduvakaranam Estate, Thyford Estate,)			Moderate	
	Kokkayar	High (Urumbikkara Estate, Mukkulam Estate,) Low (Puvali, Boyce Estate)			Moderate	
	Peruvanthanam	High (Chuzhuppil Estate, Meloram Estate, cheruvallikulam, Kanayangavayal, Amalagiri Estate) Low (Orkadan Estate, Manikallu Estate)			Low	
	Peermade	High (Ranimudi Estate, Pampanar Mala, Forest) Low (Peermed, Forest)			Low	
	Manjumala	High (Kirikara, Forest) Low (Varayattumotta, Pasu Mala Estate,			Low	

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		ManjumalaEstate)			
	Periyar	Low (Thankamala Estate, Vandiperyar, NellikayEstate, Forest)			Low
	Kumily	High (Forest) Low (Attapaam, Murukkadi Estate, Dymock, Chenkara, Vellaramkunnu, Forest)			Low
	Mlappara	High (Periyar RF) Low (R F)			Low >3

ANNEXURE 14

DATABASE OF OCCURRENCE OF LIGHTNING IN THE DISTRICT

Sl.No.	Village	Taluk	Year
1	Thodupuzha	Thodupuzha	1977
2	Mankulam	Devikulam	1985
3	Alacode	Thodupuzha	1986
4	Vellathooval	Devikulam	1987
5	Edamalayar, Vataturpara.	Edamalayar	1987
6	Ealappara, Kavukulam.	Devikulam	1988
7	Alacode	Thodupuzha	1988
8	Puthuvayal	Idukki	1989
9	Ealappara, Kochukarithiri	Peermade	1989
10	Kudayathur	Thodupuzha	1990
11	Karimannoor	Thodupuzha	1993
12	Elappara	Chinnar	1995
13	Vellathooval	Devikulam	1995
14	Elappara,Chinnar,Manapara	Peermade	1995
15	Karimkunnam	Thodupuzha	1995
16	Peringassery	Thodupuzha	1995
17	Peerumede(Vandiperiyar)	Churakulam	1996
18	Pannimattam	Pampoori (Thodupuzha)	1996
19	Vagamon	Peermade	1996
20	Kanjar,Njaralampuzha.	Thodupuzha	1996
21	Karimannoor	Thodupuzha	1996
22	Karimkunnam	Thodupuzha	1996
23	Karimkunnam	Thodupuzha	1996
24	Karimkunnam	Thodupuzha	1996
25	Karimkunnam	Thodupuzha	1996
26	Karimkunnam	Thodupuzha	1996
27	Karimkunnam	Thodupuzha	1996
28	Karimkunnam	Thodupuzha	1996
29	Karimkunnam	Thodupuzha	1996
30	Karimkunnam	Thodupuzha	1996
31	Pannimattam	Thodupuzha	1996
32	Thodupuzha	Thodupuzha	1996
33	Anaviratti	Devikulam	1997
34	Alacode	Thodupuzha	1997
35	Karimannoor	Thodupuzha	1997
36	Karimkunnam	Thodupuzha	1997
37	Kokkayar	Peermade	1998
38	Preuvanthanam	Peermade	1998

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39	Pullikanam	Peermade	1998
40	Elappally	Thodupuzha	1998
41	Elappally	Thodupuzha	1998
42	Elappally	Thodupuzha	1998
43	Elappally	Thodupuzha	1998
44	Elappally	Thodupuzha	1998
45	Elappally	Thodupuzha	1998
46	Elappally	Thodupuzha	1998
47	Elappally	Thodupuzha	1998
48	Elappally	Thodupuzha	1998
49	Elappally	Thodupuzha	1998
50	Elappally	Thodupuzha	1998
51	Elappally	Thodupuzha	1998
52	Elappally	Thodupuzha	1998
53	Elappally	Thodupuzha	1998
54	Elappally	Thodupuzha	1998
55	Elappally	Thodupuzha	1998
56	Elappally	Thodupuzha	1998
57	Elappally	Thodupuzha	1998
58	Karimkunnam	Thodupuzha	1998
59	Para kadavu	Thodupuzha	1998
60	Periyambra,Mudakolli	Thodupuzha	1998
61	Periyambra.	Thodupuzha	1998
62	Vadattupara	Edamalar	1999
63	Chempalam,Nedumkandam	Idukki	1999
64	Kokkayar	Peermade	1999
65	Kokkayar	Peermade	1999
66	Alacode	Thodupuzha	1999
67	Adimali	Udumbanchola	1999
68	Munnar	Devikulam	2000
69	Vellathooval	Devikulam	2000
70	Vellathooval	Devikulam	2000
71	Cherutoni	Idukki	2000
72	Alacode	Thodupuzha	2000
73	Kudayathur	Thodupuzha	2000
74	Neyyassery	Thodupuzha	2000
75	Pannimattam	Thodupuzha	2000
76	Udumbthoor,Edamarku	Thodupuzha	2000
77	Konnathadi, Adimali Udumbanchola.	Udumbanchola	2000
78	Kunahitharry	Devikulam	2001
79	Vellathooval	Devikulam	2001
80	Kanjikuzhi	Thodupuzha	2001
81	Kanjikuzhi	Thodupuzha	2001

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82	Kanjikuzhi	Thodupuzha	2001
83	Kanjikuzhi	Thodupuzha	2001
84	Kodikulam	Thodupuzha	2001
85	Kuninjimanachall,Mangattal.	Thodupuzha	2001
86	Muzhikkachal	Thodupuzha	2001
87	South Kathipara	Thodupuzha	2001
88	Preuvanathanam	Peermade	2002
89	Elappara	Peermade	2003
90	Pumala (Cherutoni)	Idukki	2003
91	Vannapuram	Thodupuzha	2003
92	Kaliyar		2003

ANNEXURE 15

LIGHTNING FREQUENCY IN THE DISTRICT

Sl.No	Village	Taluk	Frequency/Year
1	Marayoor	Devikulam	1
2	Keezhanthoor	Devikulam	0
3	Kannan devan hills	Devikulam	1
4	Kottakamboor	Devikulam	0
5	Kantalloor	Devikulam	0
6	Vattavada	Devikulam	0
7	Manakulam	Devikulam	1
8	Mannamkandam	Devikulam	1
9	Chinnakanal	Udumbonchola	0
10	Pallivasal	Devikulam	0
11	Anaviratty	Devikulam	1
12	Bisonvally	Udumbonchola	0
13	Kunnjithannuy	Devikulam	1
14	Vannappuram	Todupuzha	1
15	Rajakumari	Udumbonchola	0
16	Kanjikuzhy	Todupuzha	1
17	Poopara	Udumbonchola	0
18	Vellathooval	Devikulam	1
19	Kodikulam	Todupuzha	1
20	Rajakadu	Udumbonchola	0
21	kumaramangalam	Todupuzha	0
22	Konnathady	Udumbonchola	0
23	Sandhampara	Udumbonchola	0
24	Udumbannoor	Todupuzha	1
25	Gandhipara	Udumbonchola	0

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26	Neyyassery	Todupuzha	1
27	Chadhuramgapara	Udumbonchola	0
28	Karimannur	Todupuzha	1
29	todupuzha	Todupuzha	1
30	Vathikudy	Udumbonchola	1
31	Idukki	Todupuzha	1
32	Udumbanchola	Udumbonchola	0
33	karikode	Todupuzha	1
34	manakkad	Todupuzha	1
35	Upputhoda	Udumbonchola	1
36	Parathodu	Udumbonchola	0
37	Alakode	Todupuzha	1
38	Kalkunthal	Udumbonchola	1
39	purapuzha	Todupuzha	1
40	karinkunnam	Todupuzha	1
41	Thankamany	Udumbonchola	1
42	Velliamattom	Todupuzha	1
43	muttam	Todupuzha	0
44	Ayyappancoil	Udumbonchola	0
45	kudayathoor	Todupuzha	1
46	Arakulam	Todupuzha	1
47	Pampadumpara	Udumbonchola	0
48	Kattappana	Udumbonchola	0
49	Karunapuram	Udumbonchola	0
50	Elappilly	Todupuzha	1
51	Vandanmettu	Udumbonchola	0
52	Vagomom	Peermed	1
53	Anakara	Udumbonchola	0
54	Upputhara	Peermed	0
55	Anavilasom	Udumbonchola	0
56	Chakkupallam	Udumbonchola	0
57	Elappara	Peermed	1
58	Kumily	Peermed	0
59	Manjamala	Peermed	0
60	Periyar	Peermed	1
61	Kokkayar	Peermed	1
62	Peernade	Peermed	0
63	Milapra	Peermed	0
64	Puruvanthanam	Peermed	1

ANNEXURE 16

DROUGHT PRONE AREAS IN THE DISTRICT

Sl.No	Village	Taluk	Class
1	Marayoor	Devikulam	Severe Drought
2	Keezhanthoor	Devikulam	Severe Drought
3	Kannan devan hills	Devikulam	Moderate Drought
4	Kottakamboor	Devikulam	Moderate Drought
5	Kantalloor	Devikulam	Moderate Drought
6	Vattavada	Devikulam	Moderate Drought
7	Manakulam	Devikulam	Moderate Drought
8	Mannamkandam	Devikulam	Moderate Drought
9	Chinnakanal	Udumbonchola	Moderate Drought
10	pallivasal	Devikulam	Moderate Drought
11	Anaviratty	Devikulam	Moderate Drought
12	Bisonvally	Udumbonchola	Moderate Drought
13	Kunnjithannuy	Devikulam	Moderate Drought
14	Vannappuram	Todupuzha	Moderate Drought
15	Rajakumari	Udumbonchola	Moderate Drought
16	Kanjikuzhy	Todupuzha	Moderate Drought
17	Poopara	Udumbonchola	Moderate Drought
18	Vellathooval	Devikulam	Moderate Drought
19	Kodikulam	Todupuzha	Slight Drought
20	Rajakadu	Udumbonchola	Moderate Drought
21	kumaramangalam	Todupuzha	Slight Drought
22	Konnathady	Udumbonchola	Moderate Drought
23	Sandhampara	Udumbonchola	Moderate Drought
24	Udumbannoor	Todupuzha	Moderate Drought
25	Gandhipara	Udumbonchola	Moderate Drought
26	Neyyassery	Todupuzha	Slight Drought
27	Chadhuramgapara	Udumbonchola	Moderate Drought
28	Karimannur	Todupuzha	Slight Drought
29	todupuzha	Todupuzha	Slight Drought
30	Vathikudy	Udumbonchola	Moderate Drought
31	Idukki	Todupuzha	Moderate Drought
32	Udumbanchola	Udumbonchola	Moderate Drought
33	karikode	Todupuzha	Slight Drought
34	manakkad	Todupuzha	No Drought
35	Upputhoda	Udumbonchola	Moderate Drought
36	Parathodu	Udumbonchola	Moderate Drought
37	Alakode	Todupuzha	Slight Drought
38	Kalkunthal	Udumbonchola	Moderate Drought

39	purapuzha	Todupuzha	No Drought
40	karinkunnam	Todupuzha	Slight Drought
41	Thankamany	Udumbonchola	Moderate Drought
42	Velliamattom	Todupuzha	Moderate Drought
43	muttam	Todupuzha	Slight Drought
44	Ayyappancoil	Udumbonchola	Moderate Drought
45	kudayathoor	Todupuzha	Moderate Drought
46	Arakulam	Todupuzha	Moderate Drought
47	Pampadumpara	Udumbonchola	Moderate Drought
48	Kattappana	Udumbonchola	Moderate Drought
49	Karunapuram	Udumbonchola	Moderate Drought
50	Elappilly	Todupuzha	Moderate Drought
51	Vandanmettu	Udumbonchola	Moderate Drought
52	Vagomom	Peermed	Moderate Drought
53	Anakara	Udumbonchola	Moderate Drought
54	Upputhara	Peermed	Moderate Drought
55	Anavilasom	Udumbonchola	Moderate Drought
56	Chakkupallam	Udumbonchola	Moderate Drought
57	Elappara	Peermed	Slight Drought
58	Kumily	Peermed	Moderate Drought
59	Manjamala	Peermed	Slight Drought
60	Periyar	Peermed	Moderate Drought
61	Kokkayar	Peermed	Slight Drought
62	Peernade	Peermed	Slight Drought
63	Milapra	Peermed	Moderate Drought
64	Puruvanthanam	Peermed	Slight Drought

ANNEXURE 17

**STANDARD OPERATING PROCEDURES & CHECKLISTS FOR
VARIOUS 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.

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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/PRI, etc.
28. Ensure disbursement 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, PRI and ULBs meeting;	
9	Prepare a list of NGOs, and PRI with their functional specialization and Geographical coverage	
10	Check the availability of food Grains in PDSs shops and other stockings and distributors in the district	
11	Prepare a list of Relief Items for distribution in the height of local habits, customs etc.	

12	Determine quantity, quality of relief items as per minimum standards, and expenditure to be incurred on it.	
13	Prepare a transport and alternate transport plan for evacuation and distribution of relief.	
14	Prepare a media plan for dissemination of information to the people of the district; local newspapers, radio, TV and cable, etc.	
15	Ensure appropriate stocking of relief material received from outside.	

1.2. Standard Operating Procedures for the Police

In-charge Officer: Superintend 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. 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
 - District Control Room, Deputy Commissioner and SP Office
 - Control room at affected site.
 - Departmental Offices within the District & Division
10. Keep the police vehicles and other modest transport in readiness for deployment of the police.
11. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
12. The SP will ensure that all field staff and stationed officers submit the necessary action reports to control room.
13. Review and update precautionary measures and procedures and review with staff the precautions that have been taken to protect equipment.
14. Provide guards wherever needed particularly for staging area of cooperative food etc stores and distribution centres.

15. Evacuation will be ordered by Deputy Commissioner, Addl. Commissioner and Superintendent of Police.
16. Under appropriate security, Law and Order, the evacuation of community and livestock should be undertaken with assistance from community leaders.
17. All evacuation must be reported to District Magistrate/ Deputy Commissioner and Senior Superintendent of Police immediately.
18. Evacuation will be ordered by District Magistrate/Deputy Commissioner, and Superintendent of Police.
20. Dispatch Police to systematically identify and assist people and communities in life-threatening situation.
21. Designate an area, within Police Station to be used as help line centre for public.
22. With the assistance of health professional, help injured people and assist the community in organizing emergency transport of seriously injured to medical treatment centers.
23. Ensure that the police stations with staff are functioning in disaster situation.
24. Assist and encourage the community in road-cleaning operation.
25. Assess and Identify road for following conditions.
 - One Way
 - Blocked
 - Alternate route
 - Overall Traffic Management
 - Other access roads
26. Organize training and mock-drill for police officer to handle disaster/crisis situation.
27. Provide security in transit and relief camps, affected villages, hospitals, and medical centers and identify areas to be cordoned off.
28. Transport carrying transit passengers (that is, passengers travelling through trains or buses and passing through the district) should be diverted away from the affected area.
29. Ensure security of installations.
30. Provide security arrangements for visiting VVIPs and VIPs.
31. Assist district authorities to take necessary action against Hoarders, Black Marketers and those found manipulating relief material.
32. In conjunction with other government offices, activate a public help- line to:
 - Respond to personal inquiries about the safety of relatives in the affected areas;
 - Respond to the many specific needs that will be given.
 - Serve as a rumor control centre.
 - 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.
34. Monitor the needs and welfare of people sheltered in relief camps.
35. Establish coordination with the Fire Services.

36. Coordinate with military service personnel in the area.
37. Adequate Security to International Agencies/Countries personnel for Search & Rescue, Medical Assistance and Security for their relief material and equipments etc.
38. 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 diarrhoea, 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. 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.
19. Develop a pest and disease monitoring system so that timely steps can be taken to reduce damage to corps.
20. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
21. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
22. Organize transport, storage and distribution of the above with adequate record keeping procedures.
23. Ensure that adequate conditions through cleaning operations are maintained to avoid water logging and salinity.
24. A pests and disease monitoring system should be developed to ensure that a full picture or risks is maintained.
25. Plan for emergency accommodations for agriculture staff from outside the area.
26. 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.
25. 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

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 : KW

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 Malyattoor

Contact Number : 0484 - 2649052

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 18

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"> •SEOC •DEOC 	<ul style="list-style-type: none"> • Dept. of IT • National Informatics Centre 	<ul style="list-style-type: none"> • Act as the headquarters of Emergency Operations • Issue directions on-behalf of the State Incident Commander • Issue status update of weather and other relevant environmental parameters • Operate a Disaster Welfare Information (DWI) System to collect, receive and report and status of victims and assist family reunification • Apply GIS to speed other facilities of relief and search and rescue • Enable local authorities to establish contact with the State authorities • Coordinate planning procedures between district, 	<ul style="list-style-type: none"> • Documentation of response/ relief and recovery measures • Situation reports to be prepared and completed every 3-4 hours 	Ensure perennial and uninterrupted communication facilities for the SEOC/DEOC

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

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

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				<p>such as Generators</p> <ul style="list-style-type: none"> • Assess damage for national assistance 	<ul style="list-style-type: none"> • To provide alternative means of power supply for emergency purposes • Dispatch emergency repair teams equipped with tools, tents and food • Hire casual labour for the clearing of damaged poles etc. 	
F6	Transport	Dept. of Transport	<ul style="list-style-type: none"> • KSRTC • Airport Authority • Air Force • Navy • KSWTC • All other Government Departments with fleets of vehicles • All private vehicle owners 	<ul style="list-style-type: none"> • Overall coordination of the requirement of the transport • Make an inventory of vehicles available for various purposes • Coordinate and implement emergency related response and recovery functions, search and rescue and damage assessment 	<ul style="list-style-type: none"> • Coordinate arrangement of vehicles for transportation of relief supplies from helipads/airports to the designated places • Coordinate arrangement of vehicles for transportation of search and rescue related activities 	<ul style="list-style-type: none"> • Make available its fleet for the purpose of Search & Rescue, transportation of supplies, victims etc. • Act as stocking place for fuel for emergency operations • Making available any vehicle to the District Administration • Make available Ambulances to the District Administration • Airport Authority

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

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

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

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

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

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

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

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

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

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

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

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

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.

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.

A. Materials and Machinery

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

DISTRICT DISASTER MANAGEMENT PLAN – IDUKKI 2015

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)

B. 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 1st 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 19

EMERGENCY CONTACT NUMBERS OF DISTRICT OFFICIALS

Sl. No.	Name of the Officer	Land Phone Number	Mobile Number
I	Revenue Department		
1	District Collectorate	4862 232242	
2	District Collector	4862 233101, 233001 (camp)	9447032252
3	Additional District Magistrate	4862 233056, 232288 (camp)	
4	Deputy Collector (LA/LR)	4862 232366	
5	Deputy Collector (RR)	4862 232366	
6	Deputy Collector (Election)	4862 233037	
7	Revenue Divisional Office, Devikulam	4865 264222	9447026452
8	Revenue Divisional Office, Idukki	4862 232231	9447184231
9	Tahasildar, Thodupuzha	4862 222503	9447029503
10	Tahasildar, Devikulam	4865 264231	9447029503
11	Tahasildar, Peermade	4869 232077	9447023597
12	Tahasildar, Udumbanchola	4868 232050	9447023809
13	Tahasildar, Idukki		
II	Police Department		
1	District Police Office	4862 232354	
2	Superintendent of Police	4862 233006, 233004(camp)	
3	Asst. Commandant (AR) Idukki	4862 232343	
4	Vigilance and Anti Corruption	4862 227727	
5	SBI Idukki	4862 232356	
6	Administration Idukki	4862 232354	
7	DCRB Idukki	4862 223953	
8	CB-CID, Idukki, Thodupuzha	4862 223983	
9	Special Branch, Idukki	4862 232386	
10	Dy SP, Thodupuzha	4862 222272	
11	Dy SP, Munnar	4865 230382	
12	Dy SP, Kattapana	4868 272350	
13	Circle Inspector, Thodupuzha	4862 222242	
14	Circle Inspector, Kaliyar	4862 245601	
15	Circle Inspector, Kajar	4862 252056	
16	Circle Inspector, Idukki	4862 232275	
17	Circle Inspector, Kanjikuzhy	4862 239280	
18	Circle Inspector, Munnar	4865 231150	
19	Circle Inspector, Devikulam	4865 264350	
20	Circle Inspector, Adimaly	4864 222186	
21	Circle Inspector, Kattapana	4868 272969	

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22	Circle Inspector, Nedunkandam	4868 233260	
23	Circle Inspector, Kumily	4869 223150	
24	Circle Inspector, Peermade	4869 232085	
III	Agricultural Department		
1	Joint Director	4862 222428	
2	Asst. Director of Soil Conservation	4868 273322	
3	District Soil Conservation Office	4862 252650	
4	Asst. Director of Soil Survey	4862 227825	
5	State Stted Farm, Karimannoor	4862 214533	
6	Dist. Agricultural Farm, Arikuzha	4862 278599	
7	State Vegetable Farm, Vandiperiyar	4869 253543	
8	ADA Thodupuzha	4868 224530	
9	ADA Elamdesam	4862 261577	
10	ADA Idukki	4862 217144	
11	ADA Kattapana	4868 252545	
12	Rubber Board Regional Office, Thodupuzha	4862 222310	
13	Spices Board, Nedumkandam	4868 237207	
14	Serified District Office Adimali	4864 222561	
IV	Animal Husbandry		
1	Animal Husbandry Office Thodupuzha	4862 222894	
2	Asst. Director of Dairy Development	4862 222099	
3	Dairy Extention Office, Thadivampadu	4862 235347	
4	Dairy Extention Office, Kattapana	4868 278300	
5	Dairy Extension Office, Nedumkandam	4868 233213	
V	Civil Supplies Corporation		
1	State Warehouse Office Thodupuzha	4862 222592	
2	District Suppy Officer, Kuyilimala	4862 232321	
3	Taluk Supply Office Thodupuzha	4862 222515	
4	Taluk Supply Office Devikulam	4865 264224	
5	Taluk Supply Office Udumbanchola	4868 232079	
6	Taluk Supply Office Peermade	4869 232066	
VI	Health Department		
1	District Medical Office (Health) Painave	4862 233030	
2	District Medical Office (Homeo)	4862 227326	
3	District Medical Office, ISM, Kuyilimala	4862 232318	
4	District Food Inspector, Thodupuzha	4862 222619	
5	District Hospital, Paremavu	4862 232474	
6	Taluk Hospital Thodupuzha	4862 222630	

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7	Taluk Hospital Adimali	4862 222670	
8	Taluk Hospital Peermade	4869 232224	
9	Community Health Centre, Nedumkandam	4868232650	
10	Govt. Ayurveda Hospital Thodupuzha	4862 226185	
11	Dist. Medical Store, Muttom	4862 256428	
12	Dist. TB Centre	4862 233157	
13	Circle Food Inspector Office Devikulam	4865 357046	
VII	Forest and Wildlife		
1	DFO Munnar	4865 264237	
2	DFO Social Forestry Idukki	4862 232505	
3	DFO Mankulam Adimali	4864 222014	
4	DFO Sandal Division, Marayur	4865 252301	
5	ACF Munnar	4865 230208	
6	ACF Social Forestry Idukki	4862 232605	
7	Wildlife Warden, Vellapara, Idukki	4862 232271	
8	Wildlife Warden, Eravikulam, Munnar	4865 231587	
9	Wildlife Information Centre	4869 222028	
10	Asst. Wildlife Preservation Office, Thekkadi	4869 222025	
11	Forest Range Office Vellapara Idukki	4862 232274	
12	ECO Development Office Thekkadi	4869 222413	
VIII	Public Works Department		
1	PWD Buildings Painave	4862 232383	
2	PWD Roads EE Painave	4862 232353	
3	Executive Engineer, Panchayath Division, Cheruthoni	4862 2322402	
4	Asst. Executive Engineer, Roads, Thodupuzha	4862 222695	
5	Asst. Executive Engineer, Buildings, Thodupuzha	4862 222974	
6	Asst. Executive Engineer, Roads, Munnar	4865 230237	
7	Asst. Executive Engineer, Buildings, Munnar	4865 230257	
8	Asst. Executive Engineer, Painave	4862 232383	
9	Asst. Executive Engineer, Peermade	4869 232034	
10	Asst. Executive Engineer, Nedumkandam	4868 232051	
IX	KSEB		
1	Deputy Chief Engineer, Electrical Circle, Thodupuzha	4868 223353	

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2	Electrical Major Section Thodupuzha	4868 232327	
3	Executive Engineer, Electrical Division, Kattapana	4868 272448	
4	Executive Engineer, Electrical Division, Thodupuzha	4862 222377	
5	Executive Engineer, General Division, Chithirappuram	4865 263226	
6	Executive Engineer, General Division, Moolamattom	4862 252026	
7	Executive Engineer, General Division Civil, Moolamattom	4862 232221	
8	KSEB Research Division, Vazhathoppu	4862 222377	
9	KSEB EE Thodupuzha	4862 222550	
10	Asst. Executive Engineer, Thodupuzha	4862 232327	
11	Asst. Executive Engineer, Vazhathoppu	4868 272264	
12	Asst. Executive Engineer, Kattapana	4868 272448	
13	Asst. Executive Engineer, Kattapana	4868 272448	
14	Asst. Executive Engineer, Chithirappuram	4865 263237	
15	Asst. Executive Engineer, Rajakumari	4868 244040	
16	Asst. Executive Engineer, Peermade	4869 232037	
17	Superintending Engineering Generation Circle, Chithirappuram	4865 263229	
18	Power House Moolamattom	4862 252053	
19	Power House, Pallivasal	4865 263225	
20	Power House, Sengulam	4864 276226	
21	Research Division, Supdt. Engineer Idukki	4862 232221	
22	Research Division, Dypt. Director Vazhathoppu	4862 235221	
23	Research Division, Dypt. Director Rajakumary	4868 244040	
X	Transport		
1	Regional Transport Office, Kuyilimala	4862 232244	
2	Joint RTO Thodupuzha	4862 225564	
3	Joint RTO Vandiperiyar	4869 232733	
XI	Water Authority		
1	Kerala Water Authority, Thodupuzha	4862 222812	
2	PH Division Kattapana	4868 250101	
3	PH Sub Division Thodupuzha	4862 222912	
4	PH Sub Division Painave	4862 232388	
5	PH Sub Division Kattapana	4868 272011	

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6	PH Sub Division Peermade	4869 232220	
XII	Fire and Rescue Forces		
1	Kattapana	4868 272300	
2	Thodupuzha	4862 222911	
3	Munnar	4865 230290	
4	Idukki	4862 236100	
XIII	Educational Department		
1	Dypt. Director Education Thodupuzha	4862 222996	
2	Dist. Education Office Thodupuzha	4862 222863	
3	Dist. Education Office Kattapana	4868 272439	
5	Asst. Educational Office, Thodupuzha	4862 223869	
6	Asst. Educational Office, Adimali	4864 222953	
7	Asst. Educational Office, Arakulam	4862 252902	
8	Asst. Educational Office, Kattapana	4868 273139	
9	Asst. Educational Office, Munnar	4865 232579	
10	Asst. Educational Office, Nedumkandam	4868 232283	
11	Asst. Educational Office, Peermade	4869 232809	
12	DPEP Diet Thodupuzha	4862 226895	
XIV	Ground Water Department		
1	GWR District Office Thodupuzha	4862 226199	
2	Mining and Geology Thodupuzha	4862 223484	
XV	Factories		
1	District Industries Centre Cheruthoni	4862 235507	
2	Insp. Of Factories and Boilers	4862 222936	



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, 30th 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.

District Disaster Management Authority (DDMA) plans			
Sl No	District	DDMA meeting held	Approved date and number
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

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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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