

# District Disaster Management Plan Wayanad 2015



Prepared by: District Disaster Management Authority,  
Wayanad

District Disaster Management Plan 2015

# Wayanad District Disaster Management Plan

**2015**

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*Towards a Safer State...*

# District Disaster Management Plan, 2015

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## INTRODUCTION

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### 1.1 VISION

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A safer community that effectuate a pragmatic and holistic response mechanism to manage an event of disaster and consistently advance in all aspects of disaster risk reduction.

### 1.2 MISSION

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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

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The District Disaster Management Plan (DDMP) is the guide for achieving the objectives stated as follows;

- *To institutionalize disaster management in the District administration.*
- *To accomplish the best disaster management mechanism at the District and taluk level to handle any unprecedented events.*
- *To protect and minimise the loss of life, property and infrastructure in the District.*
- *To document, analyse and evaluate earlier disasters and identify the vulnerable locations in the District based on the database of hazards.*
- *To ascertain the status of existing resources and facilities available in the District so as to make it available on requisite.*
- *To provide clarity on the roles and responsibilities of all the stakeholders and capacitate them for effective disaster preparedness and emergency response.*
- *To coordinate the activities of all governmental and nongovernmental agencies, local authorities as well as general public and bring about quick decision making on relief, recovery, reconstruction and rehabilitation in the aftermath of a disaster.*

- *To mainstream disaster management concerns to developmental planning process through endorsement of appropriate strategies and responses to deal with impending disasters.*
- *To encourage and empower the local community to adopt measures of disaster risk reduction and disaster resilience by way of capacity building.*
- *To envisage a culture of disaster preparedness in the District.*

### 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 apposite 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 14<sup>th</sup> 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

The DDMA should decide on the regularity of review and revision of DDMP in the executive meeting convened by DDMA. A review of DDMP should necessarily be conducted in the aftermath of any declared disaster within the District or neighbouring Districts. Accordingly modifications should be made in DDMP. In the absence of any disaster, it is advisable to review the DDMP at least once a year, preferably in February and updated in April update of the plan should be based on inputs gained under:

- a) Mockdrills
- 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**

<b>Head quarters</b>	Wayanad-Collectorate
<b>Location (of the Headquarters)</b>	Wayanad-Civil Stations
<b>Total area (district)</b>	2132Km <sup>2</sup>
<b>District boundaries</b>	Malapuram District, Kannur District, Kozhikode District Karnatakka State and Tamil-nadu State,

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

<b>Revenue divisions</b>	1	Sub-Collector(RDO-Manathavadi)
<b>Taluks</b>	3	Mananthavadi, Sulthan Bathery, Vythiri
<b>Blocks</b>	4	Kalpetta, Manathavadi, Panamaram, Sulthan-Bathery
<b>Villages</b>	49	
<b>District Panchayaths</b>	1	District Panchayathu, Wayanadu
<b>Gram Panchayaths</b>	25	
<b>Municipalities</b>	1	Kalpetta
<b>Corporations</b>	0	

*ANNEXURE 1*

**TABLE 4: GEOGRAPHY AND TOPOGRAPHY**

<b>Major Rivers</b>	7 (Kabani, Panamarampuzha, Manathavadi, Nool-Puzha, Karapuzha, Bavally-Puzha, Kolokadavu.
<b>Lakes</b>	4
<b>Reservoirs</b>	
<b>Coastline (length in kms)</b>	Nil
<b>Forest</b>	78,787 Hectare
<b>Wetland area</b>	936 Hectare
<b>Settlement area</b>	
<b>Cultivable Area</b>	115454 Hectare
<b>Barren &amp; uncultivable land</b>	247 Hectare

**TABLE 5: WEATHER AND CLIMATE**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Rainfall (cm)</b>	2	2.7	28.6	49.5	46.8	259.2	325.3	195.1	66.7	63.0	28.6	4.3

**TABLE 6: DEMOGRAPHY OF THE DISTRICT**

<b>Total population</b>	7,80,619		
<b>Male</b>	3,91,273		
<b>Female</b>	3,89,346		
<b>Sex ratio</b>	995:1000 (M:F)		
<b>Age group population (0-6 years)</b>	<b>Population</b>	<b>Male</b>	<b>Female</b>
	290661	1,47,777	1,42,884
<b>Population density</b>	366 People per Sq km		
<b>Rural Population</b>	<b>Male</b>	<b>Female</b>	
	376424	374583	
<b>Urban Population</b>	<b>Male</b>	<b>Female</b>	
	14849	14763	
<b>Birth rate</b>	14869 (121.77)		
<b>Mortality rate</b>	4244 (13.03)		
<b>Infant Mortality rate</b>	52 ( 5.66)		
<b>Decadal growth rate</b>			
<b>Literacy rate</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>
		94.13%	85.70%

Source: Eco-stat website

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

Institution	Taluk			Total numbers
	Bathery	Manathavadi	Vythri	
<b>Lower Primary</b>	51	56	39	146
<b>Upper Primary</b>	22	27	30	79
<b>High Schools</b>	11	13	13	37
<b>Higher Secondary</b>	15	17	22	54

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

Crops	Average Area (in Ha) 2005-2011	Average Productivity (in MT) 2005-2011
Staple crops	15683	130326
Vegetable	1691	20292
Plantation crops	93976	80553.4
Oil seeds	12034	43.93 Lakhs (Only)
Spices	42376	48970.2

ANNEXURE 2

**TABLE 9: ANIMAL HUSBANDRY (2013-14)**

Number of Poultry farms	Livestock Population	Milk Production	Meat production	Number of Cattle farms	Poultry Population
77	120370		4460		237086

*ANNEXURE 3*

**2.1 HAZARD PROFILE OF THE DISTRICT**

**Disaster subcategory definitions:**

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

**TABLE 10: HAZARD PROFILE OF THE DISTRICT**

Sl.No.	Classification	Types of Disaster
1.	Naturally Triggered/ Weather Related	Flood
		Thunder and lightning
		Drought
2.	Geological	Earthquakes
		Landslides
3.	Biological	Epidemics
		Cattle epidemics
		Food poisoning
		Pest attack
4.	Anthropogenically/ Technologically triggered	Fireworks accidents
		Road accidents
		Human triggered forest fire
		Short circuit and related fire
		Building collapse
		Tourism related drowning
		Hooch accident

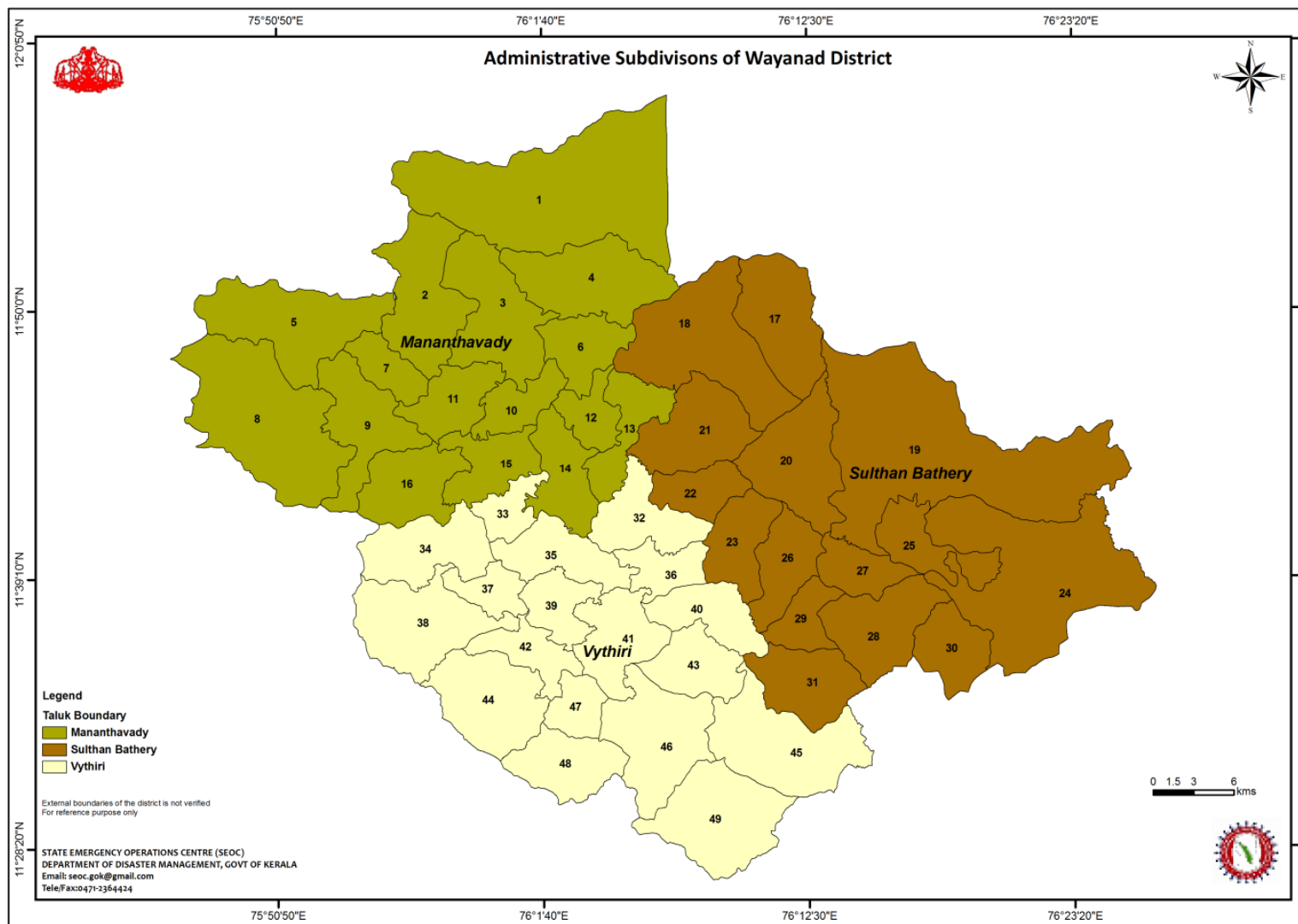
**TABLE 11: CAPACITY ANALYSIS**

Capacity/Resources	Number/Details		Further Details
District EOC	Wayanad Collectorate Ph No : 04936 204151		Details of necessary equipment & Resources in <b>Annexure 4</b>
Nearest SDRF Unit	Commandant, Sri. Sanjeev Kumar Patjoshi IPS Pandikkad, Malappuram District		Nearest SDRF Unit
Nearest IMD regional Office	IMD, Trivandrum		0471- 2322894/2322184
Nearest Navy headquarters	Naval Base Ezhimala, Cannore-District		04985-224148
Nearest Army camp	Indian Army		
Nearest Air Force headquarters	Southern Air Command		
PRI Representatives	Panchayath	9+	
	Block	4	
	Municipal town/Municipal corporation	1	
Public Distribution Schemes Representatives			<b>Annexure 5</b>
HR Trained in Disaster Management	NDRF officials, Home Guard, volunteers and NCC, NYK cadets trained in different skills		
KSEB	Sub-Stations - 9		<b>Annexure 6</b>
Healthcare ( Ayurveda )	Hospitals	3	
	Number of doctors	30	
	Number of ANMs		
	Blood banks		
	Red cross society offices		
	Primary health centres		
	Community health centres		
	Medical dispensaries	27	
	Ambulance		
	Number of Asha workers		
	Veterinary hospitals		
Rescue operations	Human resource in fire and rescue department	6	Details of other equipment in <b>Annexure 7</b>
	Fire engines	5	
	Recovery vehicles	5	

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

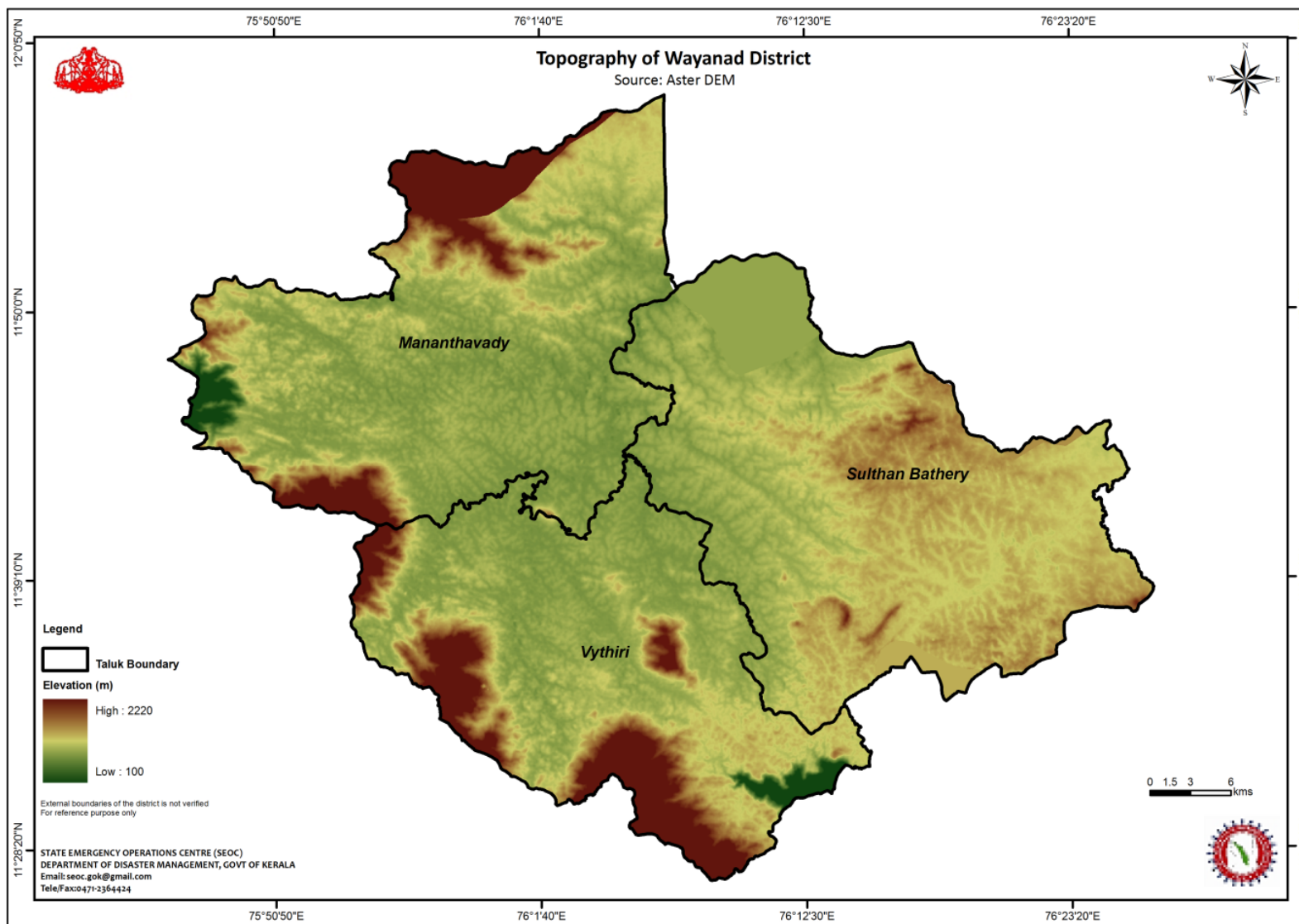
	Earth moving vehicles	7	
<b>Communication</b>	BSNL Offices in the district	38	Telephone exchange locations and numbers in <b>Annexure 8</b>
	Radio station	2	Contact numbers, frequency range in <b>Annexure 8</b>
	HAM radio		
<b>Hand Pumps</b>	0		Details in <b>Annexure 9</b>
<b>Ponds</b>	0		Details of dimension, location in Annexure
<b>Reservoirs</b>	0		Details of location, MWL, capacity
<b>Bore Well</b>	0		Details.
<b>Open wells</b>	34		Details in <b>Annexure 9</b>
<b>Pump house</b>	34		Details in <b>Annexure 9</b>
<b>Tankers</b>	57		Details in <b>Annexure 9</b>
<b>Groundwater observation wells</b>	Nil		Details of groundwater potential zones and observation wells
<b>Public Distribution Shops</b>	354		
<b>Relief Shelters</b>			Details in <b>Annexure 10</b>

# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 1: ADMINISTRATIVE SUBDIVISIONS OF WAYANAD DISTRICT (ANNEXURE 1)**

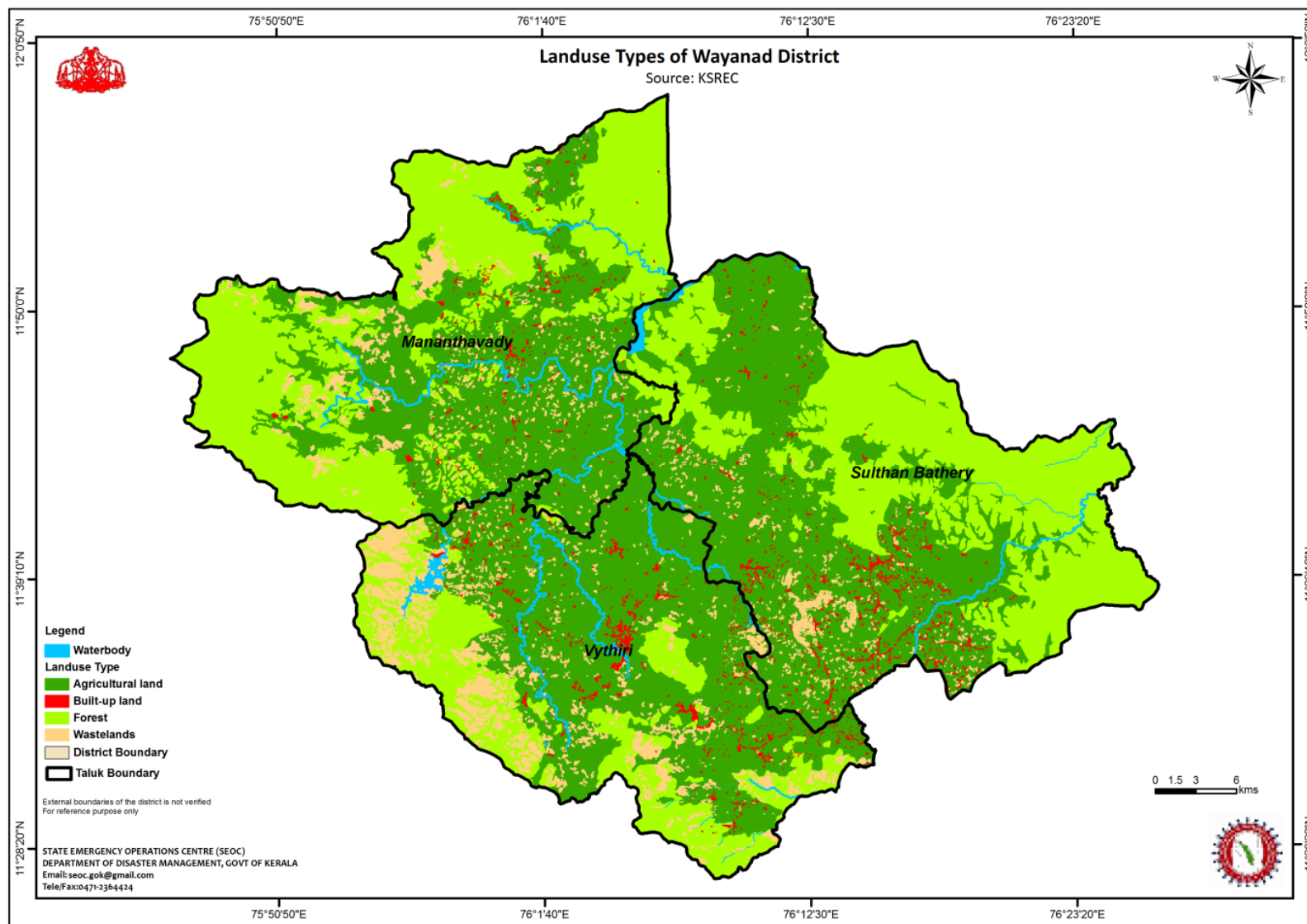
# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 2: TOPOGRAPHY OF WAYANAD**

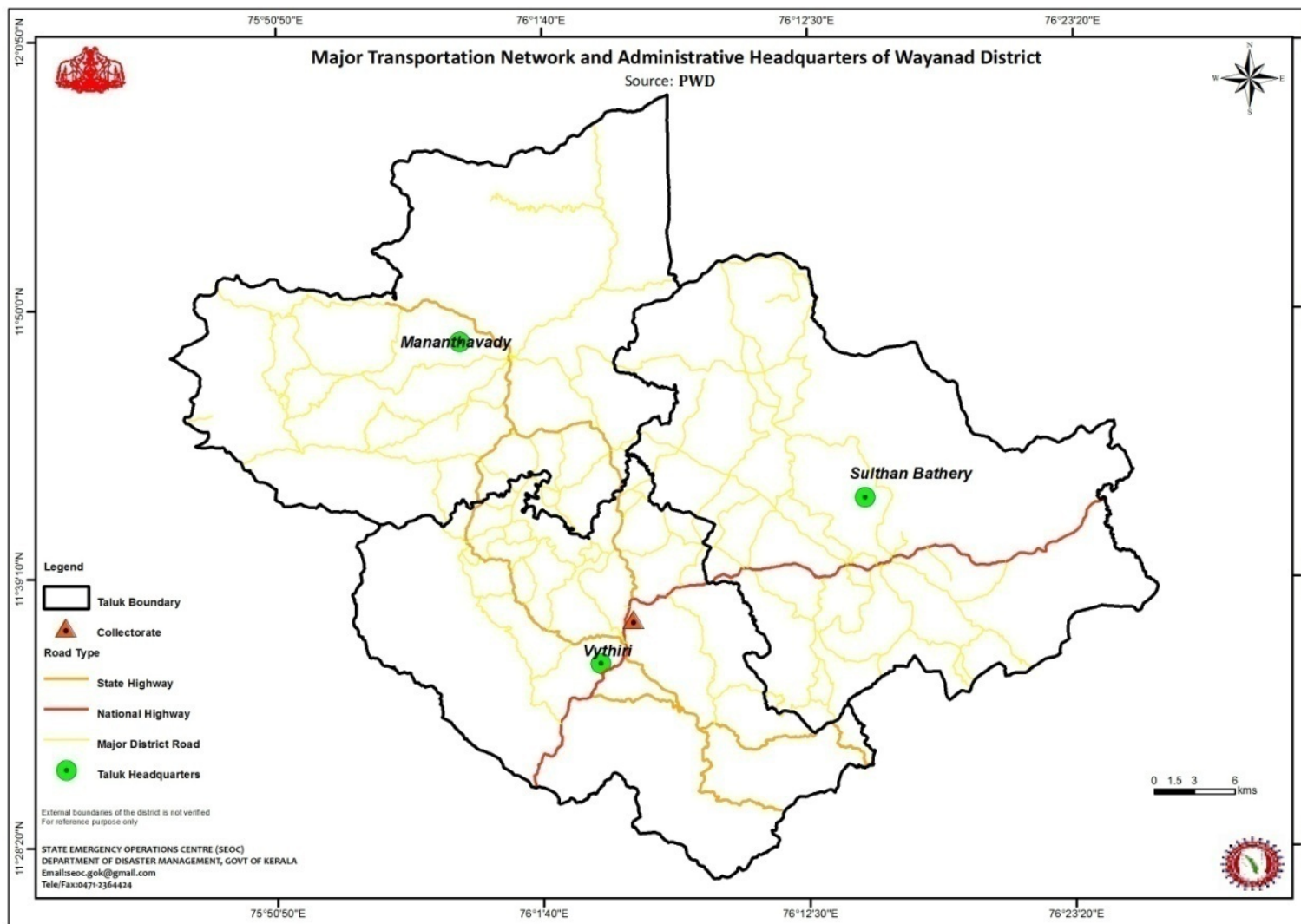


# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 3: LANDUSE MAP OF WAYANAD DISTRICT**

# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 4: MAJOR TRANSPORTATION NETWORK AND ADMINISTRATIVE HEADQUARTERS OF WAYANAD DISTRICT**

# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

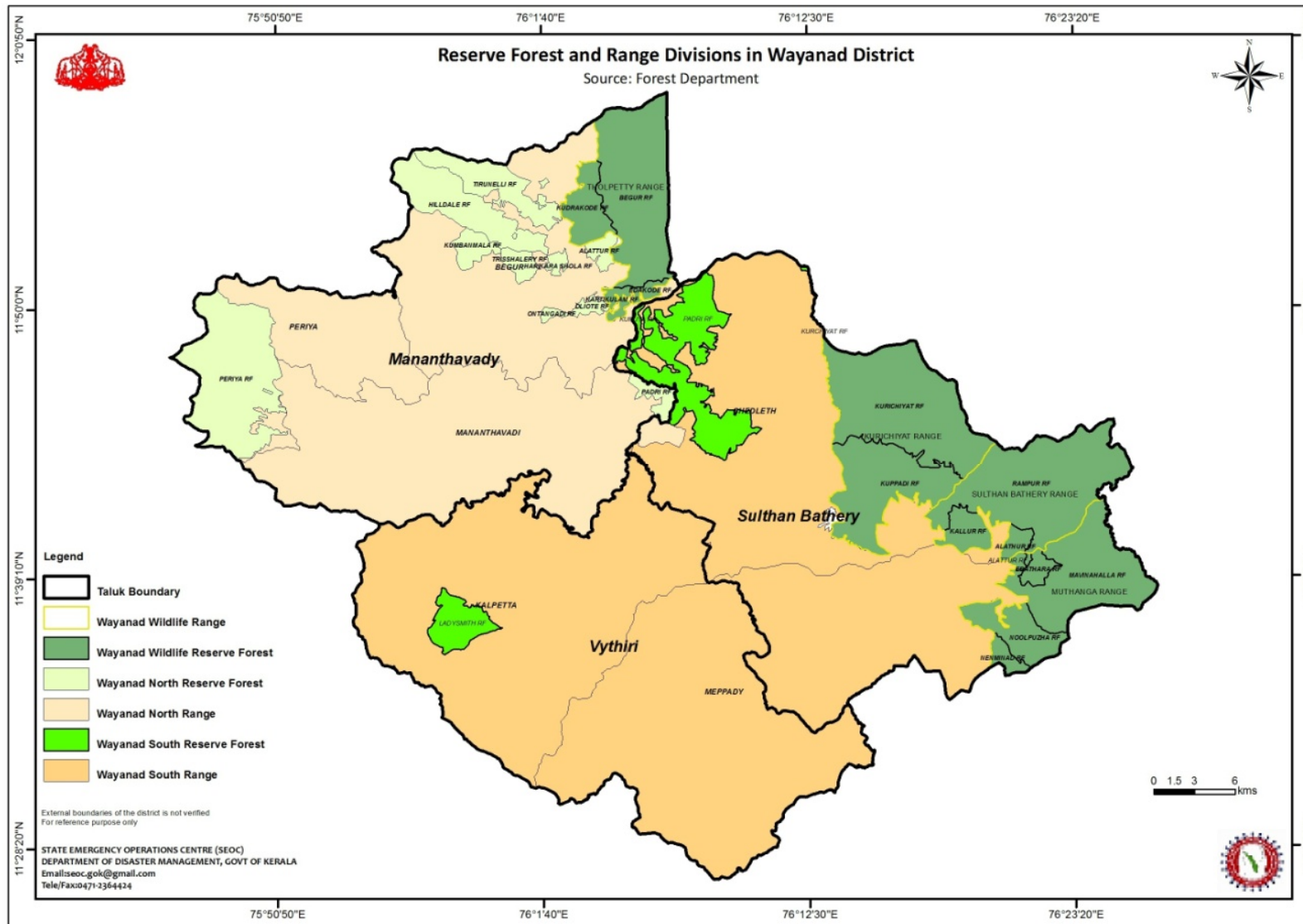


FIGURE 5: RESERVE FOREST AND RANGE DIVISIONS IN WAYANAD DISTRICT

**TABLE 12: DETAILS OF FOREST FIRE OCCURENCES DURING THE YEAR 2012-13**

**WAYANAD WILD LIFE DIVISION**

Sl.No	Wild life division	Name of Range	Name of Reserve/Coupe/ Plantation	Date of fire occurrence	Area Burnt (Ha)	Loss(Rs.)	Remarks
1	2	3	4	5	6	7	8
1	Wayanad Wild life Division	Muthanga	Kurichithodu	26.02.2013	0.8	Nil	
2		Muthanga	Kumizhy1969 thek plantatio	02.3.2013	1.5	Nil	
3		Sulthan Bathery	Rampur RF-Ethinamudi	03.02.2013	3	Nil	
4		Sulthan Bathery	Thampurattikavu area 1965-67	22.02.2013	2	Nil	
5		Sulthan Bathery	Alathoor Reserve-Ponkuzhy	26.02.2013		Nil	Dried Bamboo-3 clumps
6		Sulthan Bathery	Valluvady-chullikamdy Rampur Rf 1965-67 TP	02.3.2013	4	Nil	
7		Sultan Bathery	Rampur RF-Rampally	21.3.2013	0.041	Nil	
8		Kurichiat	1960 T.P Vandikkadavu	17.01.2013	0.81		
9		Kurichiat	Chelappara-Waterfalls	08.3.2013	0.20		
10		Kurichiat	1938 TP-Uppupalam	03.4.2013	0.40		
11		Tholpetty	Nil			0	
<b>Total</b>					<b>12.75</b>		

**NORTH WAYANAD**

Sl.No	Name of Range	Place	Area Burnt (Ha)	Steps taken to control the fire	Address of Nodal Officers
1	2	3	4	5	6
1	Mananthavady	Chirappullu	2	Taking Fire Lines during December, January. Before the commencement of fire season it is proposed to train the watchers, BFO's and SFO's in the fire protection works. Engaging fire protection watchers during the fire season from	1) P.Somarajan, RFO Mananthavady Range, mob.no 8547608480/ 9495759963,  2)K.Hashif, Dy.Range Forest Officer-Makkiyad- 8547602481  3) P.Anil Kumar, SFO-Vellamunda 8547602482
2		Pulinjal, Chundakuzhi	8		
3		Mangalassery	.1619		
4		Urakkamchola	25		
5		Thavalapara, Chirappullu	6		
6		Urakkamchola	0.6		
7		Mundakombu	3		
8		Perincherimala	2.5		
9		Quietpara	2.5		
10		Pannippad	0.8		
11		Valaramkunnu	0.4		

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

12		Kolippad	2.5	January to March. Fire awareness classes and camps were conducted during the fire season	
13	Peria	36 <sup>th</sup> mile-Kappumkunnu	0.8	In order to prevent further spreading of fire temporary fire lines has been laid by staff and watchers to prevent chances of fire spreading. Strict patrolling has been emphasized to prevent causes to fire occurrence.	1. V B Akhil, RFO Peria Range MobNo.8547602541 2.T.D Jagannatha Kumar-RFO (Grade)-Varayal 8547602548 3.N.T Dinesh Shankar, Dy.RFO Kunhome 8547602549 4. A.Prasannakumar, SFO-Peria Mob.No 8547602560
14		Karimani	2		
15		Pookode-Chapparam	0.6		
16		Chandanakotta	7		
17	Begur	Poyil	0.1012	Fire controlled with the help of staff, fire watchers, VSS members and local people. Fire line taken in fire prone areas in fire season.	1.Najmal Ameen, RFO, Begur. Mob.No 8547602504 2. Abdul Samad. K.P, Dy.RFO, Thirunelly Mob.NO 8547602506 3.Sunil P, Dy. RFO, Thalapuzha . Mob.No 8547602520 4.Sreejith K.P, SFO-Begur . Mob.No. 8547602532 5. Johnson.K.B, SFO Thrissilery Mob.No.8547602536
18		Oliyot	0.4048		
19		Muthumari, Thanneerpandal	4		
20		Sooryamudi	2.5		
21		Maniyankunnu	10		
22		Sooryamudi	5		
23		Kambamala	10		
24		Muneeswaranmudi	1		
25		Makkimala	15		
26		Muneeswaeanmudi-Narimada	2		
27		Ambukuthi	1		
28	Ambukuthi	12			

### SOUTH WAYANAD DIVISION

SI No.	Name of Division	Name of Range	Name of Reserve/Coupe/Plantation	Date of fire occurrence	Area Burnt (Ha)	Loss (Rs)	Remarks
1	2	3	4	5	6	7	8
1	South Wayanad	Kalpetta	Kurichyarmala grass land(Kallengodan Pulkunnu)	13.1.2014	12	nil	
2			Chennaykavala	02.2.2014	2.5	nil	
3			Amba, Vannathi, Forest Area	07.02.2014 08.02.2014	100	nil	
4			Kurichyarmala Grass land(Wireless kunnu)	15.3.2014	2	nil	
5			Parathode area	16.3.2014	5	nil	
6			Chundale area, land comprising in VFC item	16.3.2014	5	nil	

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

		No.88, SyNo. 02/3A, which is handed over to the Revenue dept of assignment to landless tribes				
7		Lady smith Reserve area(1992 Eucalyplantation)-VSS	16.3.2014	10	nil	
8		Kappikalam-Meenmutty	17.3.2014	1	nil	
9		Mylady-Kattukunnu area	19.3.2014	25	nil	
10		Bappanmala, Valaramkunnu, Banasuramala	30.3.2014	15	nil	
11		Valaramkunnu-Athany Quarry		2	nil	
		Total Area		179.5	nil	
12		Kuppachi-munoor, VFC-101, Sy.No.104/pt	21.4.2013	1	nil	
13		Kuppachi-munoor, VFC-101, Sy.No.104/pt	03.5.2013	5	nil	
14		Kallady-Vazhakala VFC-22 Sy.No.32	14.3.2014	2	nil	
15		Chullukka Malavaram VFC-21 Sy.No.13	15.3.2014	50	1500	OR.06 /14
16		Odathodu VFC-82A, Rs.244	18.3.2014	3	nil	
17		Meenakshikunnu VFC-22, Rs.40	26.3.2014	2	nil	
		Total area		63		
18		1975 Teak Plantation Padiri Reserve	03.02.2014	2		
19		1960 Teak Plantation Padiri Reserve	16.02.2014	4		
20		1975 Teak Plantation Padiri Reserve	27.02.2014	4		
21		1965 Teak Plantation Padiri Reserve	27.02.2014	3		
22		Natural Forest in Padiri Reserve	02.3.2014	0.8		
23		Natural Forest in Padiri Reserve	12.3.2014	1		
24		Natural Forest in Padiri Reserve	13.3.2014	3		
25		Natural Forest in Padiri Reserve	16.3.2014	1		
26		Natural Forest in Padiri Reserve	18.3.2014	1.5		
27		Natural Forest in Padiri Reserve	26.3.2014	0.2		
28		Natural Forest in Padiri Reserve	26.4.2014	0.5		
		Total Area		21		
		<b>Grant Total</b>		<b>263.5</b>	<b>1500</b>	

**FOREST FIRE ALERT**

SOUTH WAYANAD DIVISION

Sl.No	Division Range	Name of Officers in charge	Phone Number	
			Office	Mobile
1	2	3	4	5
1	South Wayanad Division, Kalpetta	P.Dhanesh Kumar	04936-203428	9447979075
2	Chedleth Range Office, Pulpally	P.Ranjithkumar	04936-243700	8547602737
3	Kalpetta Range office, kalpetta	C.Krishnadasan	04936-205038	8547602715
4	Meppady Range office, Meppadi	C.P.Aneesh	04936-282001	8547602680
5	WCS Range Meppady	Pavithran		8547602711

TABLE 13: MATRIX OF PAST DISASTER (YEAR 2013-2014)

Disaster	Flood	Earthquake	Landslide	Wind/Rain -fall	Storm Surge/Sea Attack	Drought	Lightning
No. of affected villages	49	0	0	0	0	0	0
Population affected	780619	0	0	0	0	0	0
Cultivated area affected (in Ha)	1901.06	0	0	0	0	0	0
Estimate cost of Crop Loss (Rs)	474.5	0	0	0	0	0	0
No. of House Damaged	713	0	0	0	0	0	0
Estimate cost of houses damaged	161.31	0	0	0	0	0	0
No. of Casualty	6	0	0	0	0	0	0
Month & Year of Occurrence	2013-14	0	0	0	0	0	0

Source: Revenue H Section (DM) -Wayanad Collectorate

TABLE 14: HAZARD SEASONALITY MAPPING OF THE DISTRICT

Disaster	J	F	M	A	M	J	J	A	S	O	N	D
Coastal erosion						←	→					
Drought			←	→								
Fire		←	→									
Storm surge			←	→								
Lightning	←	→										
Flood						←	→					
Earthquake	←											→

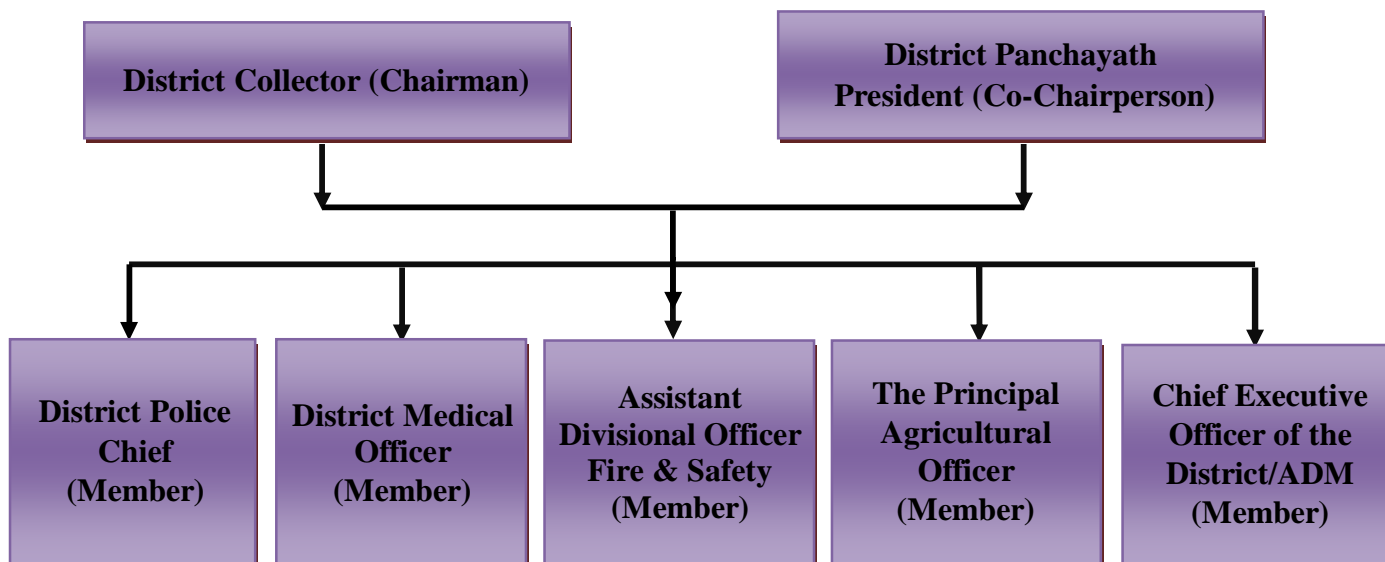
Source: CESS Report + Weather Report (IMD) for Kerala+ (Info: from H-Section DMD-Wayanad Collectorate)

**INSTITUTIONAL ARRANGEMENTS**

**3.1 DISTRICT DISASTER MANAGEMENT AUTHORITY – WAYANAD**

District Disaster Management Authority, (Specify District )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 (Trivandrum) has following structure:

SI No	Organization & Designation	Designation in DDMA
1	District Collector	Chairperson
2	The President, District Panchayat	Co-Chairperson
3	The Additional District Magistrate ( ADM )	Chief Executive Officer, Member
4	The Superintendent of Police	Member
5	The District Medical Officer of Health	Member
6	The Assistant Divisional Officer, Fire & Rescue Services	Member
7	The Principal Agricultural Officer	Member



**FIGURE 6: DDMA STRUCTURE**



### 3.2. NODAL DEPARTMENTS FOR VARIOUS HAZARDS

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

**(Kerala SDM Policy, 2010)**

### 3.3 POWERS & FUNCTIONS OF DDMA

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

### 3.4. POWERS AND FUNCTIONS OF DISTRICT AUTHORITY

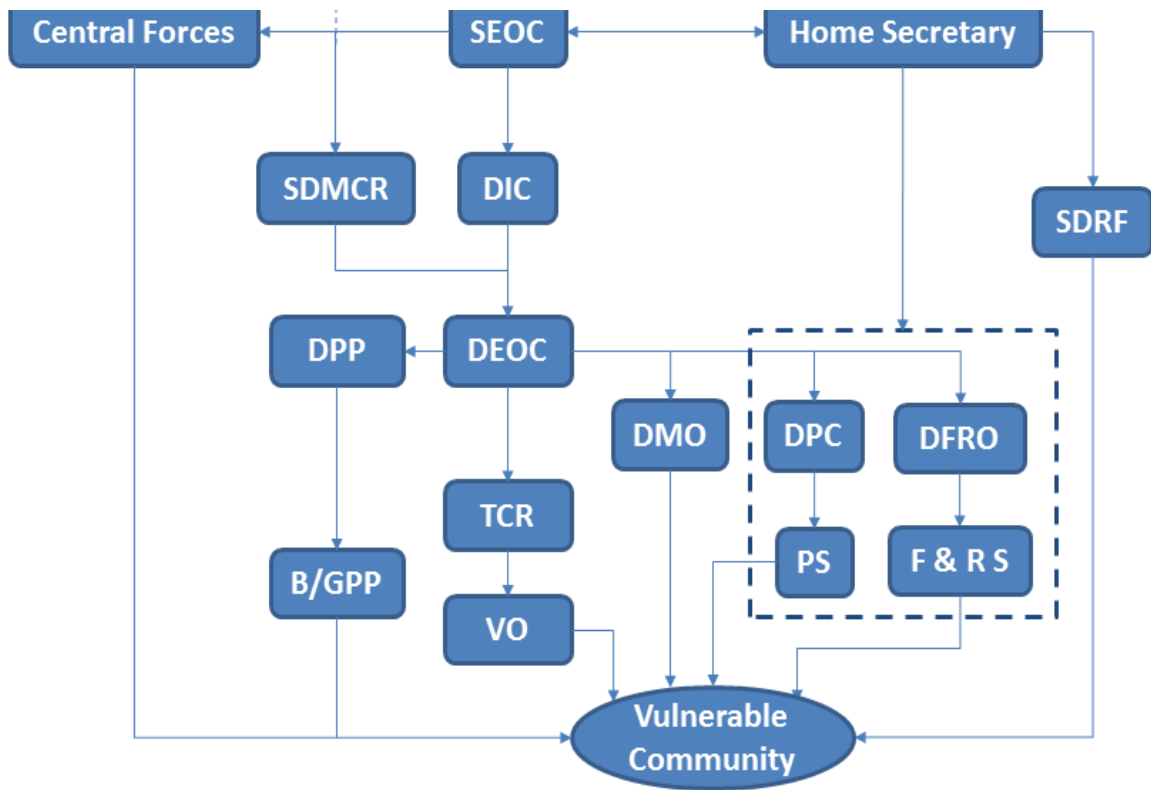
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- (1) The District Authority shall act as the district Planning, coordinating and implementing body for disaster management and take all measures for the purposes of disaster management in the district in accordance with the guidelines laid down by the National Authority and the State Authority.
- (2) Without prejudice to the generality of the provisions of subsection, the District Authority may-
  - i. Prepare a disaster management plan including district response plan for the district;
  - ii. Coordinate and monitor the implementation of the National Policy, State Policy, National Plan, State Plan and District Plan;

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

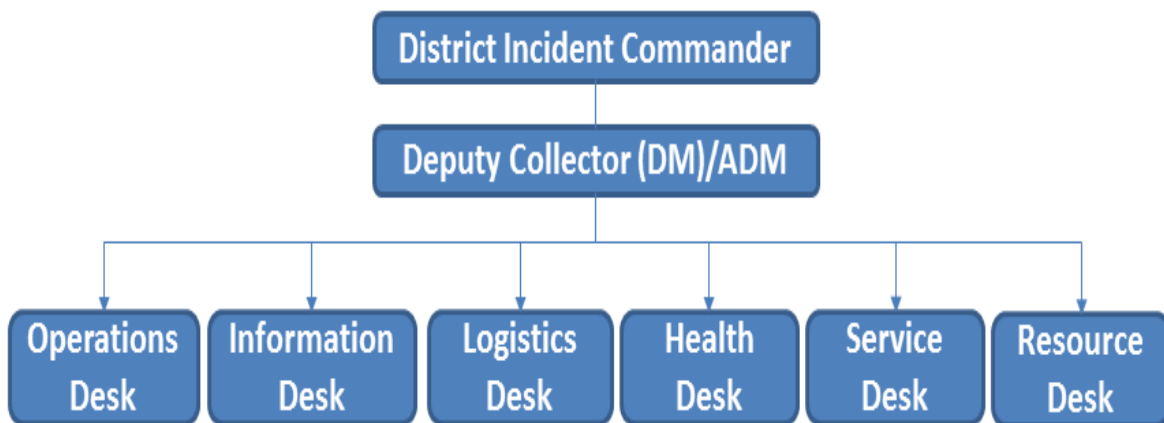
- xviii. Ensure that the Departments of the Government at the district level and the local authorities prepare their response plans in accordance with the district response plan;
- xix. Lay down guidelines for, or give direction to, the concerned Department of the Government at the district level or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

**Emergency inter communication between different stakeholders**



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

**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
- Maintain adequate supply of medicines, equipment and personnel

**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 16**

**TABLE 15: DIFFERENT LEVEL STAKEHOLDERS AND THEIR RESPONSES**

	<b>Primary</b>	<b>Secondary</b>	<b>Territory</b>
<b>Early Warning</b>	Indian Meteorological Department (IMD): Weather Warnings, Central Water Commission (CWC): Flood Warnings, Geological Survey of India (GSI)/ National Centre for Earth Science Studies (NCESS): Landslide Warnings, Indian National Centre for Ocean Information Services (INCOIS)/ National Centre for Earth Science Studies (NCESS): Wave Height & Tsunami, National Emergency Operations Centre (NEOC)/ State Emergency Operations Centre (SEOC): Any of the above, Government: Any of the above	District Emergency Operations Centre (DEOC)/ District Collector: without precursors such as accidents/ earthquakes, Revenue	Fisheries, Coast Guard, Police,
<b>Information</b>	PRD, BSNL, SEOC	FM radio, other mobile	Existing wireless operators (Police,

<b>Dissemination</b>		Network Providers	Fire Force etc).
<b>Emergency Support Functions</b>	Refer to Annexure 16	PWD, Food & civil supplies	Animal Husbandry, KSEB, KWA
<b>Advisory &amp; Training</b>	Administrative Training Institutes (ATI)	Taluk, NGO	Chemical Industries

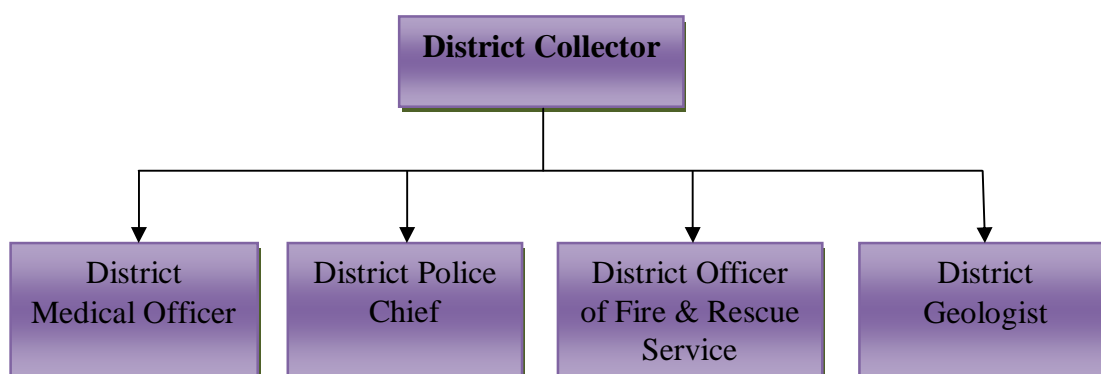
**TABLE 16: POINT OF CONTACTS FOR VARIOUS DEPARTMENTS**

<b>Departments</b>	<b>Officer in charge (designation)</b>	<b>Contact Details</b>
<b>Department of Revenue &amp; Disaster Management</b>	1. Deputy Collector (General) 2. Additional District Magistrate	a. Ph. No.: (0)4936 202532 b. Mob: 9447097702
<b>Fire &amp; Rescue</b>	Asst. Divisional Officer, Kalpetta Station Officer Kalpetta	Ph. No.: 04936 202333 (FRS Kalpetta) 949720122, 9497920120 (ADO), 9497920270 (STO)
<b>Police</b>	1. District Police Chief 2. DYSP, Admn	1. Mob: 9497996974 2. Mob: 9497990124

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

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

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



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

## FINANCIAL ASSISTANCE

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

### 4.1 FUNDS AVAILABLE AT NATIONAL AND STATE LEVEL

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

### 4.2 FUNDS IN 13TH FINANCE COMMISSION

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

### 4.3 NATIONAL DISASTER RESPONSE FUND / STATE DISASTER RESPONSE FUND

Years	SDRF Allotment
2008-09	87,14,210
2009-10	7,18,99,725
2010-11	2,45,20,337
2011-12	2,30,00,000
2012-13	15,00,000
2013-14	2,00,00,000



**4.4 OTHER SOURCES**

**Convergence with Centrally sponsored Schemes:** (under MNREG, IAY etc)

SI. No.	Years	Allotments
1	2006-2007	2308.87
2	2007-2008	4142.66
3	2008-2009	4878.87
4	2009-2010	5057.09
5	2010-2011	3656.86
6	2011-2012	4674.77
7	2012-2013	6051.39
8	2013-2014	6360.24
9	2014-2015	2362.02

**4.5 MEMBER OF PARLIAMENT LOCAL AREA DEVELOPMENT SCHEME (MPLADS)**

Name of MP	F Y-Allotment						
	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
M.I Shanavas		10000000	20000000	41000000	75000000	50000000	
Rajeev				100000	7500000		2000000
Achuthan						3100000	
K.E Ismail		800000	800000				
Charles Dias				304343			
Swaminathan					900000		
Abdullakutty	150000						
Veerandra Kumar	8000000	7500000	9000000				
Chandran Pillai		2500000					

**4.6 CHIEF MINISTER’S DISTRESS RELIEF FUND (CMDRF)**

SI No.	FY – Year	Allotments
1	2008-2009	53 00 000
2	2009-2010	1 11 41 305
3	2010-2011	18 53 122
4	2011-2012	1 10 00 000
5	2012-2013	1 61 00 000
6	2013-2014	3 50 00 000
7	2014-2015	2 41 00 000

**PLANNING & RESPONSE STRUCTURE**

**5.1 CRISIS MANAGEMENT FRAME WORK**

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

**5.2 HAZARD SPECIFIC CRISIS MANAGEMENT PLAN FOR THE DISTRICT**

**5.2.1 Flooding**

Hazard specific crisis management plan must be hatched on the basis of the type of the disaster which is dominating in the respective (Grids) district which is under consideration. For Thiruvananthapuram/Trivandrum district, the dominating disasters are Flooding, Heavy rainfall and Sea attack respectively and whence Crisis management parameters should be wisely selected which in-turn might be an effective solution for the respective district.

**TABLE 17: FLOOD CRISIS MANAGEMENT PLAN FOR THE DISTRICT**

Source of Information- IMD: <a href="http://imdtvm.gov.in">http://imdtvm.gov.in</a>	
<p><b>Extremely Heavy Rainfall (&gt;244.4mm)</b></p>	<p><b>Most Vigil</b> - Actions to be taken and sustained till warning is withdrawn in the villages/taluks/districts predicted to be affected by rainfall</p> <ul style="list-style-type: none"> <li>• SEOC &amp; DEOC – Keep checking the tsunami bulletins from the INCOIS site.</li> <li>• State-District –Taluk Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• NDRF, SDRF and Fire and Rescue Service – pre-positioned as per the direction of State Incident Commander</li> <li>• BSNL and Police – deploy emergency communication systems</li> <li>• Hospitals and PHCs in the villages predicted to be affected by rainfall – function at full strength 24 hrs</li> <li>• Tahsildar – Start the relief camps; Quarry blasting to be banned until atleast 24 hrs of rain free situation arises in the quarry locality based on evaluation by the village officers</li> <li>• Local Self Governments – relocate vulnerable population to the relief camps and other safe locations</li> <li>• Transport department – take control of all cranes and earthmovers in the district for deployment in the event of major calamities</li> <li>• KSEB &amp; PWD – Emergency repair teams to be ready for deployment</li> <li>• District Officers of KSEB, PWD, Health, Irrigation &amp; Transport – to be</li> </ul>

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

	<p>available at the respective district collectorates</p> <ul style="list-style-type: none"> <li>• Police – Stop vehicular traffic other than that of emergency services via ghat roads prone to landslides and flash floods; ensure strict one way system for vehicle movement</li> <li>• Declare holiday for all educational institutions</li> <li>• All mass gatherings and social events to be stopped</li> <li>• Public advised to remain indoors and those in landslide/flood prone areas to move to safer locations. Voluntary evacuation warning to public living in the flood prone areas of the district (based on the list of hazard prone villages published in <a href="http://www.sdma.keral.gov.in">www.sdma.keral.gov.in</a>; <a href="http://disasterlesskerala.org">disasterlesskerala.org</a>)</li> <li>• Tourism &amp; Forest Departments – Advise tourists not to stop in the sides of streams and rivulets that intersect Ghat (Hilly) roads and take bath in streams and bathing ghats when it is raining as these are possible tracts of landslides &amp; flashfloods; close all hill stations and resorts in coastal and low lying areas and evacuate public to safer areas</li> </ul>
<p><b>Very Heavy Rainfall (124.5 to 244.4 mm)</b></p>	<p><b>Be prepared</b> - Actions to be taken and sustained till warning is withdrawn, in the districts predicted to be affected by rainfall</p> <ul style="list-style-type: none"> <li>• DEOC – Emergency time functions activated</li> <li>• DEOC. District – taluk Control Rooms of Revenue and Police – 24 hrs functioning</li> <li>• SDRF and Fire and Rescue Service – pre-positioned as per the direction of State Incident Commander</li> <li>• Army, Navy, Air Force, Coast Guard and other central forces in the state – informed</li> <li>• Hospitals and PHCs – ensure doctors and paramedical staff are available on call</li> <li>• Tahsildar – take control of the identified relief shelters; Quarry blasting to be banned until atleast 24 hrs of rain free situation arises in the quarry locality based on evaluation by the village officers</li> <li>• Local Self Governments – advice public to restrain from standing near and crossing streams and avoid traffic through ghat roads</li> <li>• Transport department – ensure that cranes and earthmovers in the district are ready for deployment in the event of major calamities</li> <li>• KSEB &amp; PWD – Emergency repair teams to be ready for deployment</li> <li>• Police – Stop vehicular traffic other than that of emergency services via ghat roads prone to landslides and flash floods</li> <li>• District Officers of KSEB, PWD, Health, Irrigation &amp; Transport – to be available on call to District Incident Commander</li> <li>• Tourism &amp; Forest Departments – Advise tourists not to stop in the sides of streams and rivulets that intersect Ghat (Hilly) roads and take bath in streams and bathing ghats when it is raining as these are possible tracts of landslides &amp; flashfloods</li> <li>• Voluntary evacuation warning to public living in the flood prone areas of the district (based on the list of hazard prone villages published in <a href="http://www.sdma.keral.gov.in">www.sdma.keral.gov.in</a>; <a href="http://disasterlesskerala.org">disasterlesskerala.org</a>)</li> </ul>
<p><b>Heavy Rainfall (64.4 to 124.4 mm)</b></p>	<p><b>Be updated</b> - Actions to be taken and sustained till warning is withdrawn, in the villages/taluks/districts predicted to be affected by rainfall</p> <ul style="list-style-type: none"> <li>• SEOC – All state level officers of the nodal departments informed</li> <li>• DEOC – Emergency time functions activated</li> </ul>

	<ul style="list-style-type: none"> <li>• District Control Rooms of Revenue &amp; Police-24hours functioning</li> <li>• Tahasildar – ensure that shelters are available if needed; Quarry blasting to be banned until atleast 24 hrs of rain free situation arises in the quarry locality based on evaluation by the village officers</li> <li>• Transport department – take control of all cranes and earthmovers in the district for deployment in the event of major calamities</li> <li>• KSEB &amp; PWD – Emergency repair teams to be ready for deployment</li> <li>• Tourism &amp; Forest Departments – Advise tourists not to stop in the sides of streams and rivulets that intersect Ghat (Hilly) roads and take bath in streams and bathing ghats when it is raining as these are possible tracts of landslides</li> </ul>
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**5.2.2 Landslide**

**TABLE 18: LANDSLIDE CRISIS MANAGEMENT PLAN FOR THE DISTRICT**

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

**5.2.3 Drought**

**TABLE 19: 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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Agriculture crop loss</td> <td rowspan="2" style="text-align: center;">District administration</td> </tr> <tr> <td style="text-align: center;">Deficit in ground</td> </tr> </table>	Agriculture crop loss	District administration	Deficit in ground
Agriculture crop loss	District administration					
Deficit in ground						

		public	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.

**5.2.4 Lightning**

**TABLE 20: 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	
4	Recovery (Post Disaster)		Damage to power, telephone lines, cable networks	Agriculture dept.

**5.3 RESPONSE MATRIX**

For effective response, multiple needs must be met in a coordinated manner in short time frames. Thus, in an acute response situation, different agencies must coalesce into a matrix of linked actions that function smoothly across horizontal and vertical chains of command system regardless of department specific infrastructure, culture, area of expertise, and responsibilities.

Ultimately, the response matrix and all of its components must work in a coordinated manner toward mitigating the impacts of disasters on the public and on affected elements of the physical infrastructure.

**TABLE 21: RESPONSE MATRIX**

Response	Transport	Early warning Centres	PWD	Drinking Water & Water Supply	Search & rescue
<b>Normal</b>	Nil	Usual Monitoring process established.	Nil	Nil	To have mock drill on their own equipments. So as to more familiar to their equipments and access the quality of equipments what they have.
<b>Prepare &amp; update resource inventory</b>	Nil	Nil	Nil	Nil	Nil
<b>Warning</b>	Preparation on Disaster (Mock drill).	Issue warnings signal the necessary line departments.	To give clearance of strength of building and bridges.	To reserve the water for the victim after the appearance of disaster.	To get prepared to face all the upcoming threats.
<b>Track developments in regard to specific hazards</b>	Nil	Nil	Nil	Nil	Nil
<b>Emergency (Fill Responses)</b>	To transfer people and valuables from affected area.	Employ communication to necessary line departments.	To support the shelters were victims can be accommodated.	To supply water to victims.	To establish the search and rescue service when and where ever necessary.
<b>Recovery (Fill Responses under Recovery Stage)</b>	To transport victims to hospital/ Camp/ Shelter were victims can meet the necessity.	Continue monitoring and inform ESF (Emergency Support Function) for further appearance.	To provide shelters and accommodation to victims.	To supply water to victims.	Victims are transported to the different locations were medication, accommodation and foods are facilitated.

**TABLE 22: ACTIVITY CALENDAR**

	Pre monsoon	Monsoon	Post monsoon
<b>Agriculture</b>	Monitor daily report of DCR Collectorate. Coordinate with water resources departments and necessary concerned departments.	Take precautionary steps to avoid agriculture destruction that can appear during monsoon season.	Take precautionary steps as per the daily report from Collectorate or report from IMD.
<b>Animal Husbandry</b>	Coordinate with concerned departments and avoid all the possibilities of diseases	To adopt all the measures to avoid diseases that can appear in animals during	• Take precautionary measures to avoid diseases during post

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

	that can occur in animals.	monsoon period.	monsoon period. • Make routine check up to access the health of animal.
<b>Fire</b>	<ul style="list-style-type: none"> <li>To establish active participation for any situation where outbreak of fire or necessary search and rescue operations are needed.</li> <li>Conduct necessary exercise and mock drills.</li> <li>Conduct joined mock drills with concerned line departments.</li> </ul>	To deploy forces during the eve of major disasters.	To deploy search and rescue operations if necessary (during natural and manmade disasters).
<b>Ground Water</b>	Coordinate with irrigation and KWA to disseminate adequate water to the necessities by understanding (grids) locations, which lacks water.	<ul style="list-style-type: none"> <li>Take initiation to preserve water resources.</li> <li>Steps to be adopted so as to maintain HIS (Hydrological Information System) database and monitor in a regular basis.</li> </ul>	Steps are adopted to collect, store and disseminate hydrological data as a part of coma state and district level initiative.
<b>Health</b>	Supply Medicare to Diseases appearing on pre monsoon.	Supply Medicare to Diseases appearing on monsoon.	Supply Medicare to Diseases appearing on post monsoon.
<b>IMD</b>	<ul style="list-style-type: none"> <li>To monitor and compute met parameter for the district/ state.</li> <li>Carry over simulation and establish daily forecasting.</li> <li>To increase numerical modelling, precision and accuracy.</li> <li>To send daily report to DCR/ EOC of Collectorate and other departments.</li> </ul>	<ul style="list-style-type: none"> <li>To monitor and compute met parameter for the district/ state.</li> <li>Give the necessary response to SEOC, DCR/ EOC of respective Collectorates.</li> </ul>	To monitor the met parameter and give daily reports to concerned departments.
<b>Irrigation</b>	To irrigate proper places so as to avoid extreme dryness.	To collect the water in suitable reservoirs and constructions (structures) - rain water harvesting.	Irrigate proper places so as to avoid dryness of the soil.
<b>KSEB</b>	Lack of rainfall leads to low productivity of power and hence regulation must be carried out in the usage of the same.	<ul style="list-style-type: none"> <li>Due to rainfall, productivity seems to be very high and hence low regulation is required.</li> <li>Measures to be adopted to save energy.</li> </ul>	Due to reduced pattern of rainfall, measures must be adopted as per total production and consumption.
<b>KWA</b>	Distribute safe drinking water necessary places or	To promote rain water harvesting and reserve	• Controlled or regulated usage of water.

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

	locations where it lacks.	water for futuristic purpose.	<ul style="list-style-type: none"> <li>• Steps to be adopted so as to maintain the source point of water.</li> <li>• Allotment of water must be established in a proper hierarchy as given;             <ol style="list-style-type: none"> <li>1. Human being</li> <li>2. Animals</li> <li>3. Agriculture Storage of water in the reservoirs</li> </ol> </li> </ul>
<b>Police</b>	Be alarming to counter the natural and manmade threats	To avoid the peoples from the exposure of sea threats and flooding, reallocate them to more safe location. To avoid ochlocratic situation at shelters and relief camps.	To be alarming to counter the natural and manmade threats.
<b>PWD</b>	Nil	To allot shelters for victims who are under threat due to flooding sea attack.	Nil
<b>Revenue</b>	Maps and Survey sketches are provided to concerned departments so as to establish easy operation and administration procedure.	Maps and survey sketches relating various disasters occurring during monsoon season are generated and are distributed to the concerned line departments.	Maps and survey sketches relating various disasters occurring during post monsoon (if necessary) are provided to concerned departments.
<b>Transport</b>	Nil	Shift peoples from coastal and flood prone regions to safe location.	Nil

### 5.4 NEED ANALYSIS FOR PRE AND POST DISASTER SCENARIOS

Hazard specific anticipated needs for pre and post disasters.

**TABLE 23: ANTICIPATED NEEDS DURING PRE-FLOOD AND POST-FLOOD**

Anticipated needs Pre- Flood		Anticipated Needs Post – Flood	
Structural	Non – Structural	Rescue	Relief
Clearance of water ways	Public awareness campaigns	Boats	Food
Removal of encroachments	Monitoring & updating flood related parameters	Vehicles	Shelter
Cleaning of sewerage	Sand bags	Helicopters	Financial aid
Repairing damaged roads	Dewatering pumps	Rescue equipments	Cooked food
Construct water harvesting system	Update resource inventories	Human resources	Safe drinking water



## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

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 24: ANTICIPATED NEEDS DURING PRE- LANDSLIDE AND POST- LANDSLIDE**

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 ,Crane	Food
Constructing piles and Retaining wall.	Monitoring & updating landslide related parameters	Vehicles ambulance	Shelter
Preserving vegetation	Public awareness campaigns	Rescue equipments	Financial aid
Rock fall protection	Update resource inventory	Human resources	Cooked food
Boulder-gathering trenches at the foot of the hillside	Collect details of earth movers, cutters, JCB's and other related machineries in the district	Mobile clinics	Safe drinking water
Lowering the slope	Storage of medicine	Life saving equipments	Electricity
	Disseminate landslide hazard mapping information to stakeholders		Medicines/ Vaccination
	At selected locations demonstrate mitigation actions through use of local resources / cost effective measures.		

**TABLE 25: 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
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
	Seismic risk assessment and mapping of seismic zones.	Earth movers, Cutters, JCB’s and other related machineries	Temporary toilets to be included
	Provide professional training about earthquake resistance construction to engineers and architects		

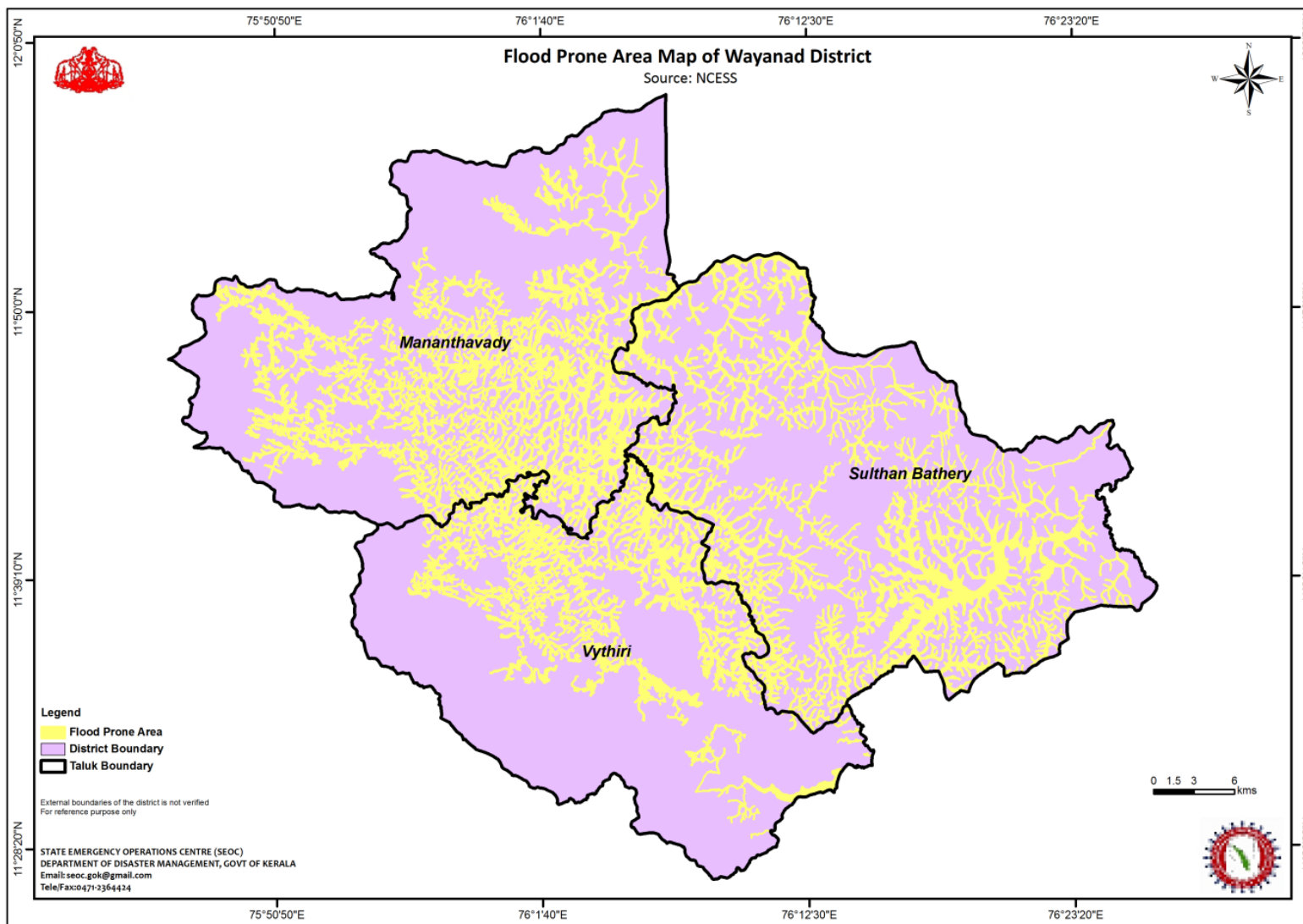
**TABLE 26: NEED ANALYSIS FOR PRE AND POST LIGHTNING SCENARIOS**

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

**TABLE 27: NEED ANALYSIS FOR PRE AND POST DROUGHT SCENARIOS**

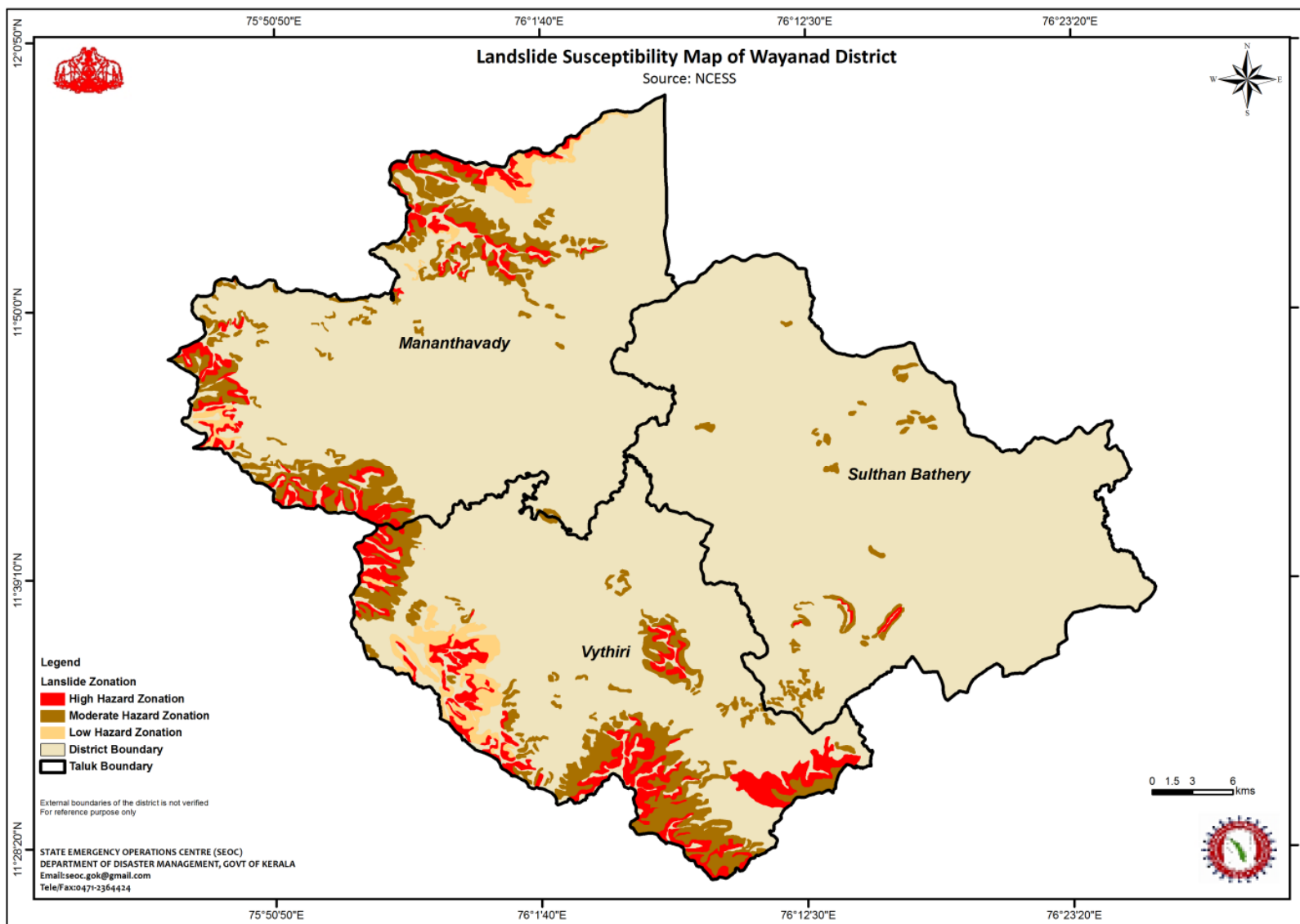
Anticipated Needs Pre- Drought		Anticipated Needs Post – Drought	
Structural	Non – Structural	Rescue	Relief
Renovation of existing ponds and open wells	Public Awareness Campaigns	Human Resources	Drinking Water supply
Construction of check dams, cleaning and protection of existing water sources	Monitoring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

# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 10: FLOOD PRONE AREA MAP OF WAYANAD DISTRICT (ANNEXURE 11)**

# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 11: LANDSLIDE SUSCEPTIBILITY MAP OF WAYANAD DISTRICT (ANNEXURE 11)**

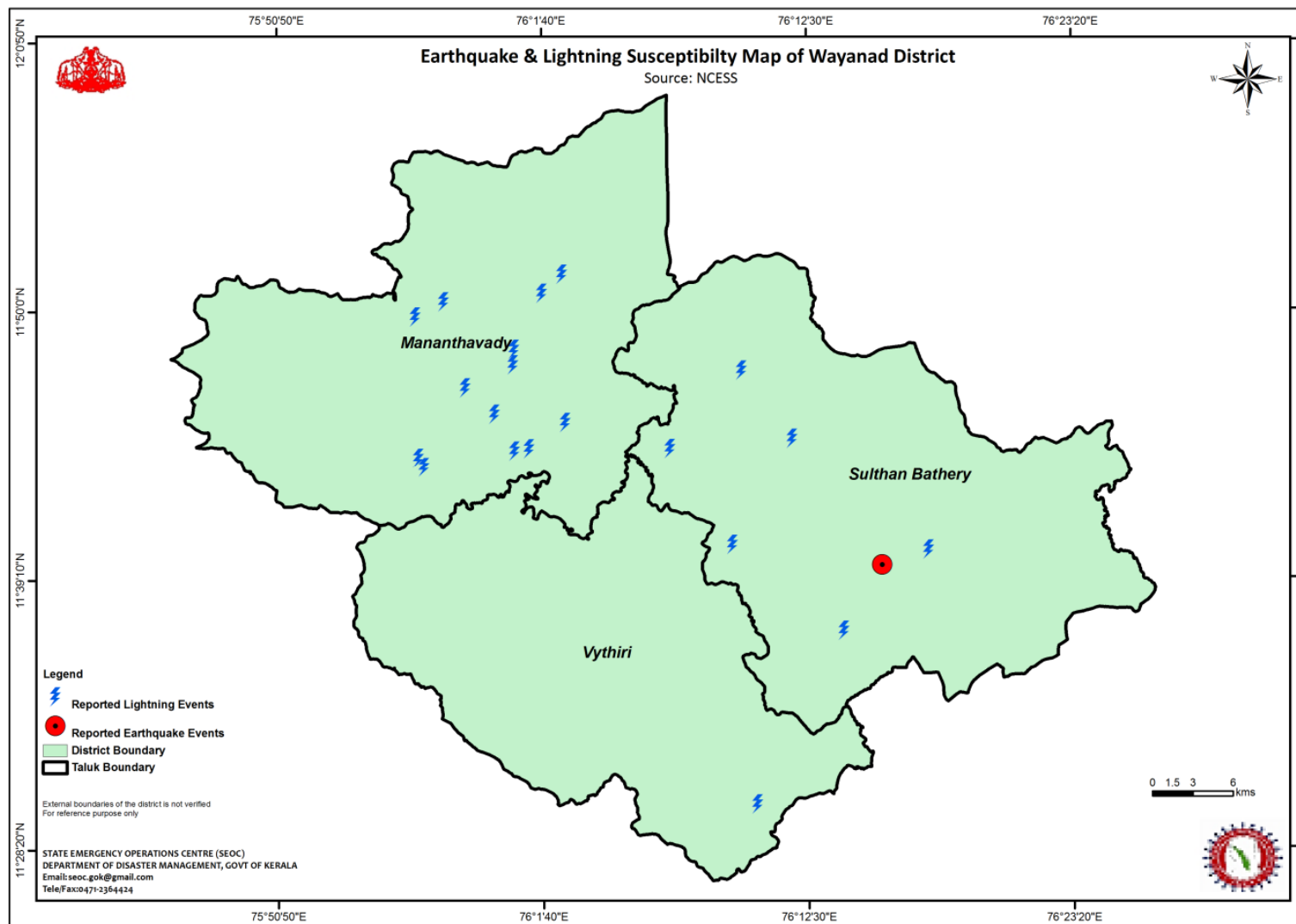
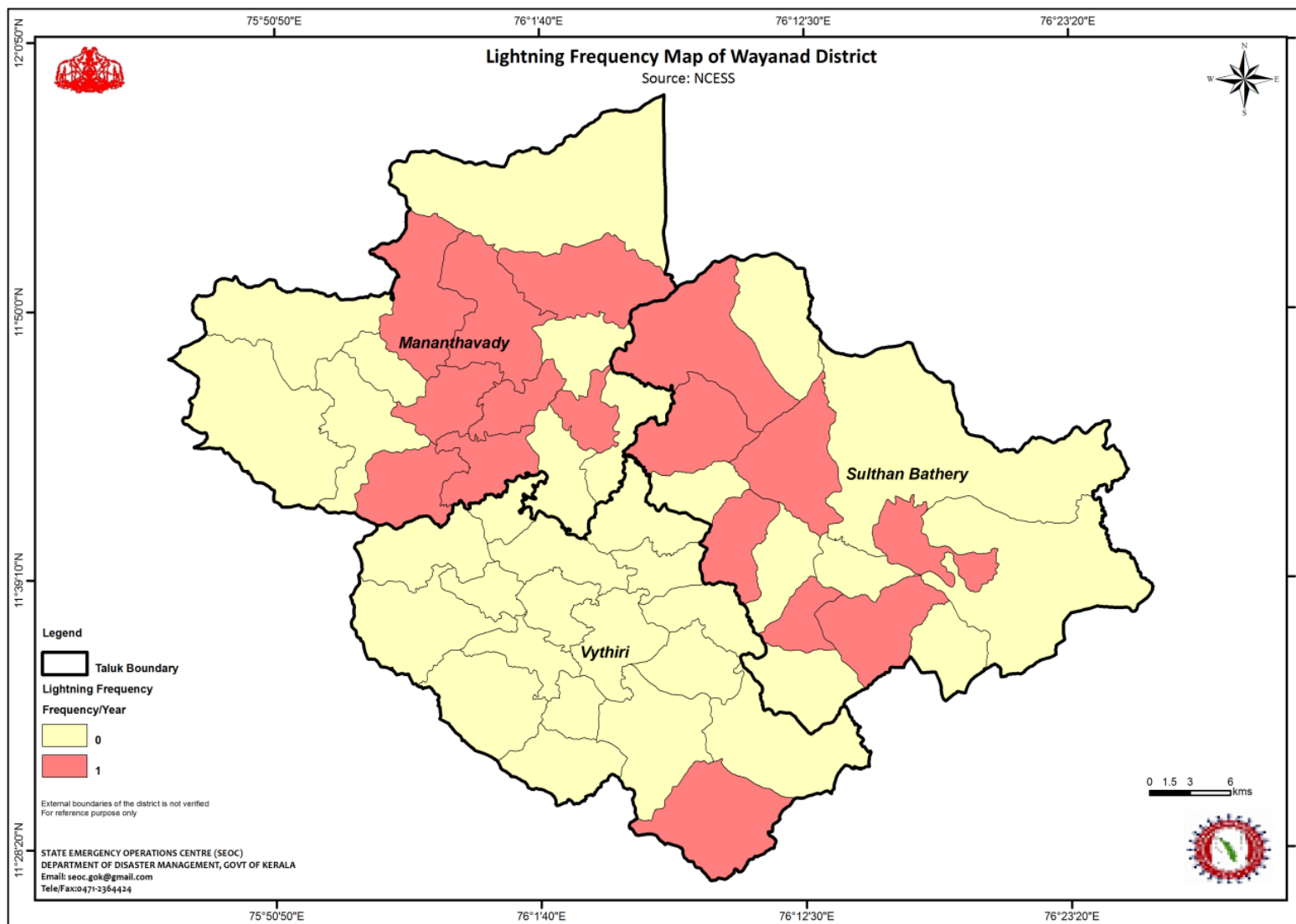


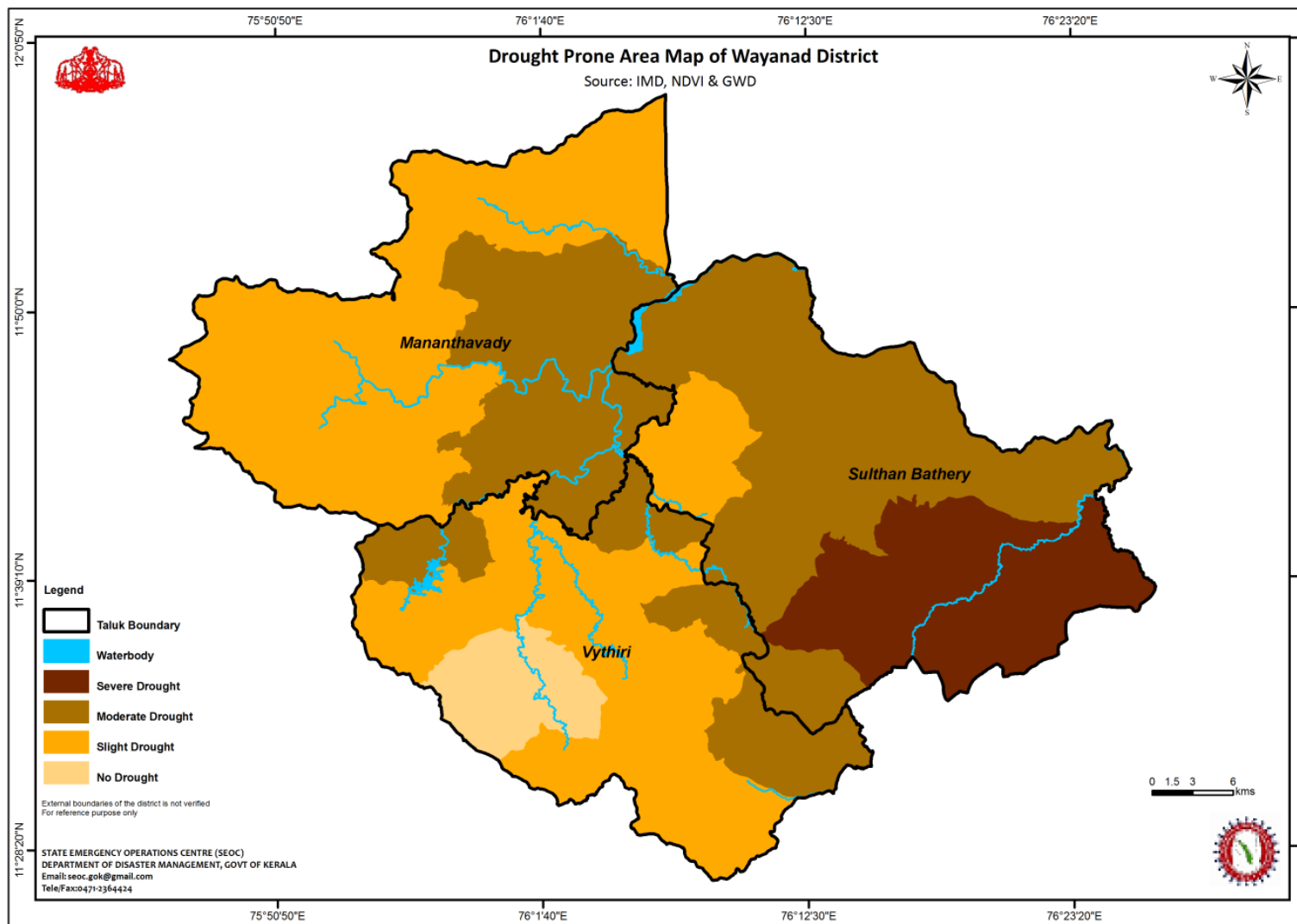
FIGURE 12: EARTHQUAKE & LIGHTNING SUSVEPTIBILITY MAP OF WAYANAD DISTRICT (ANNEXURE 12)

# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 13: LIGHTNING FREQUENCY MAP OF WAYANAD DISTRICT (ANNEXURE 13)**

# DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015



**FIGURE 14: DROUGHT PRONE AREA MAP OF WAYANAD DISTRICT (ANNEXURE 14)**



### 5.5 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 28: RESPONSIBILITY MATRIX**

Time	Task	Department/ Agency	Activity
<b>D-72 Hr</b>	>Effective monitoring to established. >If necessary warnings to be provided.	>SEOC, IMD, CESS >I&B, Media, Radio Station,	Effective communication to be established between scientific and communication networks.
<b>D-48 Hr</b>	>Evacuation of disaster prone regions. >Arrangement of Temporary shelters	>Revenue, Police, Coast Guard.	>Hazard prone regions are monitored by Police, Coastguards and Revenue. >Temporary shelters are prepared to accommodate the victims
<b>D-24Hr</b>	Mitigational measures adopted	>I&B, Media, Radio Station >Fire force, Health Dept, Police, NDRF, and SDRF.	All the respective members (Depts) are deployed.
<b>D0 Hr</b>	Activate Incident Command System+ Emergency Communication System	Police, SDRF, NDRF, Indian Coast Guard.	Active communication, Fire & Police force, NDRF and other field staffs deployed to counter threat waves (Disaster).
<b>D+15 Min</b>	Search and rescue are at the frontline. Necessary medical aids are provided.	Police, F&R Supply office, DH.	Victims to be transported to shelters and necessary medical assistance are provided respective Dept's.

*SOPs and Checklists are enclosed in Annexure 15.*

### 5.6 EMERGENCY SUPPORT FUNCTIONS PLAN, 2014

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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 16.**

**DISTRICT DISASTER MANAGEMENT PLAN**  
**WAYANAD – ANNEXURES**  
**2015**

ANNEXURE 1

**ADMINISTRATIVE SUBDIVISIONS**

No. code	Village	Taluk
1	Thirunalli	Mananthavady
2	Thavinhal	Mananthavady
3	Mannanthavady	Mananthavady
4	Thrissileri	Mananthavady
5	Periya	Mananthavady
6	Payyampalli	Mananthavady
7	Valad	Mananthavady
8	Thondernad	Mananthavady
9	Kanjirangad	Mananthavady
10	Nallurnad	Mananthavady
11	Edavaka	Mananthavady
12	Cherukattur	Mananthavady
13	Panamaram	Mananthavady
14	Anchukunnu	Mananthavady
15	Porunnannur	Mananthavady
16	Vellamunda	Mananthavady
17	Padichira	Sulthan Bathery
18	Pulpalli	Sulthan Bathery
19	Kidangad	Sulthan Bathery
20	Irumam	Sulthan Bathery
21	Nadavayal	Sulthan Bathery
22	Poothadi	Sulthan Bathery
23	Purakkadi	Sulthan Bathery
24	Nulpuzha	Sulthan Bathery
25	Kuppady	Sulthan Bathery
26	Krishnagiri	Sulthan Bathery
27	Sulthan Bathery	Sulthan Bathery
28	Nenmeri	Sulthan Bathery
29	Ambalavayal	Sulthan Bathery
30	Cheeral	Sulthan Bathery
31	Thomattuchal	Sulthan Bathery
32	Kaniyambetta	Vythiri
33	Kuppadithara	Vythiri
34	Padinharathara	Vythiri
35	Kottathara	Vythiri
36	Muttill North	Vythiri
37	Kavummandam	Vythiri

38	Tariyod	Vythiri
39	Vengappalli	Vythiri
40	Muttill South	Vythiri
41	Kalpetta	Vythiri
42	Achooranam	Vythiri
43	Thrikkaipetta	Vythiri
44	Pozhuthana	Vythiri
45	Muppainad	Vythiri
46	Kottappady	Vythiri
47	Chundel	Vythiri
48	Kurrathidavaka	Vythiri
49	Vellarimala	Vythiri

**ANNEXURE 2**

**AGRICULTURE**

**Area Production and productivity of the important crops of Wayanad district**

2010-11	2011-12	2012-13	2013-14	2014-15	Total
14,24,650	5,00,100	2,02,100	2,14,500	11,91,718	35,33,068

**Disaster Risk Insurance Crop insurance Details from the financial year  
2010-2011 to 2014-2015**

<b>Staple Crops</b>				
1	Paddy-Nancha	11832	3100	36679.2
2	Puncha	3851	3400	13093.4
<b>Spices</b>				
3	Pepper	32075	280	897.4
4	Ginger	5445	8000	43560
5	Turmeric	369	6000	2214
6	Cardamom	4106	500	2053
7	Vanilla	274	800	219.2
8	Clove	37	100	3.7
9	Nutmeg	60	250	15
10	Cinnamon	10	790	7.9
<b>Plantation crop</b>				
11	Arecanut	12737	430	5476.9
12	Tea	5616	3500	19656
13	Coffee	67386	750	50539.5

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

14	Rubber	8090	600	4854
15	Cocoa	147	184	27
<b>Others</b>				
16	Tapioca	2348	18000	42264
17	Vegetables	1691	12000	20292
18	Banana	11885	20000	237700
<b>Oil seeds</b>				
19	Coconut	12034	3900	43.93 Lakhs

### ANNEXURE 3

#### ANIMAL HUSBANDRY

Year	Livestock Population	Poultry Population	Number of Poultry farms (In numbers)	Milk production (productivity in tonnes)	Meat production (Productivity in tonnes)	Number of Cattle farms (In numbers)	Remarks
2007-08	146106	383723					
2008-09							
2009-10							
2010-11							
2012-13							
2013-14	120370	237086	77		4460	11	2012 Cattle census data has not been published till date. This figures based on the quick estimate.

Sl.No.	Name & Address	Name of Officer	Phone No.
1	DISTRICT ANIMAL HUSBANDRY OFFICE, WAYANAD, KALPETTA, MUNDERIROAD	1. DRNK R GEETHA, DISTRICT ANIMAL HUSBANDRY OFFICE i/c	9048672180
		2. DR K R GEETHA (DY. DIRECTOR	9048672180
2	DISTRICT VETERINARY CENTRE, KALPETTA	1. DR S BABU, CHIEF VETERINARY OFFICER	9847998979
		2. DR WINNY JOSEPH, SVS	9447479767
		3. DR V R THARA, V S	9447219273
		4. DR NAHEEF, V S	8281093584
		5. DR SHARMADHA M K, VS	9446640217
		6. DR ANITHA M G, TECHNICAL ASSISTANT i/c	9747918174
3	VPC, BATTERY	1. DR P ANIL KUMAR, SVS	9447190167
		2. DR SAJI JOSEPH, VS	9447048566
4	VPC, MANANTHAVADY	1. DR P R SUDHEER KUMAR, SVS	9447625391

**DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015**

		2. DR K S SUNIL, VS	9495030806
5	VH VYTHIRI	DR K L THOMAS SVS	9446912586
	VH MEENANGADI	DR G SHERLY	9946601973
6	VH MEEPADI	DR P R PRADEEP	9447097776
	VH PALLIKUNNU	DR SR PRABHAKARAN	9349109956
7	VH KENNICHERA	DR K RAGHAVAN,SVS	9961017787
	VH PULLPADI	DR ASHA ,SVS	9847008363
8	VD NENMEENI	DR S DHAYAL VS	9447358377
	VD PANAMARAM	DR ANIL, VS	9447278663
9	VD IRUKULAM	DR KS PREMAN VS	9447539825
	VD KOTTATHARA	DR JAWAD N VS	9495166973
10	VD EDAVAKA	DR VI GIGI MON	9746713655
	VD KATTIKULAM	DR KS SUNIL	9495030806
11	VD VENGAPALLY	DR DHANYA RAJAN	9497309911
	VD PADICHERA	DR C HARIEF VS	9961007150
12	VD NOOLPUZHA	DR ASSAINER	9744540323
	VD KATTIMoola	DR VI GIGI MON	9746713655
13	VD AMBALA VAYYAL	DR KK SATHISH	9446647635
	VD POZHUTHANA	DR V JAYESH VS	9846159539
14	VD MUPPAINADU	DR RAJI VS	8606287236
	VD VELLAMUNDA	DR T G SIVADASAN	9544783149
15	VD PADINJARATHARA	DR MK JAYAKRISHNAN	9847204376
	VD THARIYOODE	DR V JAYESH	9846156539
16	VD NADAVAYAL	DR S DHAYAL VS	9447358377
	VD VARADOOR	DR MUSTHAF A	9539873563
17	VD MAKIYADU	DR T G SIVADASAN	9544783149
	VD MUTTIL	DR V J MANOJ	9446640420
18	RAIC MEENANGADI	DR R RAJAN	9400883529
	MFAU KALPETTA	DR ANITHA	9747918174
19	ADCP KALPETTA	DR MUHAMMED DIST: EPIDEMIOLOGIST	9447409406
	VH VYTHIRI	DR K L THOMAS SVS	9446912586
20	VH MEENANGADI	DR G SHERLY	9946601973
	VH MEEPADI	DR P R PRADEEP	9447097776
21	VH PALLIKUNNU	DR SR PRABHAKARAN	9349109956
	VH KENNICHERA	DR K RAGHAVAN,SVS	9961017787
22	VH PULLPADI	DR ASHA ,SVS	9847008363
	VD NENMEENI	DR S DHAYAL VS	9447358377
23	VD PANAMARAM	DR ANIL, VS	9447278663
	VD IRUKULAM	DR KS PREMAN VS	9447539825

ANNEXURE 4**DEOC EQUIPMENTS**

SI No.	Equipments	Qty	Status
1	Aska Light	2	Given to FireForce
2	Fire Extinguisher	6	Given to Huzur Sheristhedar
3	Life Saving Equipments	33	Given to FireForce
4	Keltron PC + Laptop	1+1	H Section, Wayanad Collectorate
5	Keltron Fax Machine	1	H Section, Wayanad Collectorate
6	Keltron, Projector	1	H Section, Wayanad Collectorate
7	SIDCO (Raincoat+Jacket)	60+20	Given to Fire Force



## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

### ANNEXURE 5

#### PDS Representatives

#### PROFORMA SHOWING THE DETAILS OF ARD's

#### DISTRICT : WAYANAD / TALUK : MANANTHAVADY

Sl.No	AWD/KWD/ ARD/No	Name Of Licence& Address With Pin	Name of Local Body	Contact Person & Cell No.	Landline Telephone In The Shop (If Yes Specify The Ph.No. Or Any Near By No)	Telephone Exchange Concerned	Location (Specify Any Land Mark)
1	2	3	4	5	6	7	8
1	AWDV	K T Brothers, Mananthavady 670645	Mananthavady	Abdulla	04935 271355	Mananthavady	Chettappalam Mananthavady
2	AWDVI	RP Govindan & Co M 670645	Mananthavady	Jayakumar	04935 240206	Mananthavady	Down Bazar Mananthavady
3	KWD67	K T Brothers, Mananthavady 670645	Mananthavady	Abdulla	04935 271355	Mananthavady	Chettappalam Mananthavady
	ARD'S						
4	1	K.K.Ammooty Korankkunne house, Tharuvanan PO 670731	Vellamunda	9446253882	No	Vellamunda	Vellamunda 8/4
5	2	K.Shameer Kuttipuravan Vellamunda PO 670731	Vellamunda	9947090208	No	Vellamunda	Vellamunda Pulinjal Road
6	3	K.Shameer Kuttipuravan Vellamunda PO 670731	Vellamunda	9656499096	No	Vellamunda	Mothakara
7	4	M.Ibrahim Malimmi house valeri PO	Thonernadu	9847883995	No	Korome	Thettamala
8	5	K.Yoosuf Kanjai house Valeri PO 670731	Thonernadu	9747117640	No	Korome	Valery
9	6	K.Mayan, Keezhatta house, Vanjhode PO 670731	Thonernadu	9895218215	No	Korome	Vanjod
10	7	K.Mayan Keezhatta house, Makkiyad 670731	Thonernadu	9048723818	No	Korome	Makkiyad
11	8	K.A.Showkath Kadayinkal, Attilan house Thonernade 670731	Thonernadu	9744181912	No	Korome	Korom

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

12	9	K.C.Sareena Khaleefa house, kunchome PO 670731	Thonernadu	9744498160	No	Korome	Kunjom
13	10	A.K.Mehaboob aniyam kallam, house, po,periya 670 644	Thavinhal	9495065786	No	Talapuzha	Periya
14	11	K.Rejina Keezhatta house, Varayal PO 670644	Thavinhal	9744860307	No	Talapuzha	Varayal
15	12	K.M.Sebastian Karithangal house Poorur PO 670644	Thavinhal	9747593806	No	Talapuzha	Kattimoola
16	13	C.H.Manojkumar, Legha nivas, Thalapuzha PO 670644	Thavinhal	9947676943	No	Talapuzha	Thalapuzha
17	14	M.Aboobacker Mannakandi house, Thalapuzha po.670644	Thavinhal	9446649261	No	Talapuzha	Thalapuzha
18	15	C.H.Manojkumar, Legha nivas, Thalapuzha PO 670644	Thavinhal	9744229293	No	Talapuzha	Thalapuzha
19	16	T.N.Shobhana Thekkeemanimala Kampetty 670644	Thavinhal	9847271552	No	Talapuzha	Venmony
20	17	Daniel George Kalluvathukkal Kattikulam 670646	Thirunelly	9656500881	No	Thirunelly	Kartikulam
21	18	Balraj Mohan Valiyaparambil, Kattikulam 670646	Thirunelly	9447546353	No	Thirunelly	Kartikulam
22	19	Joseph Thomas Kochupurakkal, Tholpetty 670646	Thirunelly	9744228769	No	Thirunelly	Tholpetty
23	20	N.J.Mathew Nedumala house Kampetty PO 670646	Thavinhal	9744228368	No	Talapuzha	Venmony, Chulli
24	21	K.G.Ramakrishnan Kolliyil house Thirunelli PO 670646	Thirunelly	9946614201	No	Thirunelly	Appapara
25	22	K.P.Mammooty Kalaripoyyil house Mananthavady PO 670645	Mananthavady	9562280203	No	Mananthavady	Down bazar
26	23	K.P.Mammooty Kalaripoyyil house Mananthavady PO 670645	Mananthavady	9961336876	No	Mananthavady	Down bazar
27	24	P.Bhaskaran , Harisree Mananthavady 670645	Mananthavady	9847936945	No	Mananthavady	B Steet
28	25	V.A.Augusty, Vattaparyil house, Mananthavady 670645	Mananthavady	9847657866	No	Mananthavady	Kaniyaram

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

29	26	V.Usman Vyamprathe house,Mananthavady po. 670645	Mananthavady	9947650372	No	Mananthavady	Mtdy Town Near church
30	27	E.K.Sebastain, Elanjimattathil, Payyampally P.O 670645	Mananthavady	9961862170	No	Mananthavady	Thazhe 54, Eralamoola
31	28	K.U.Haneefa Kandangil, B.Street, Mananthavady 670645	Mananthavady	8281490065	No	Mananthavady	Pilakkavu
32	29	Secretary, E.C.C.Stores Chirakkara Estate 670645	Mananthavady	9495049864	No	Mananthavady	Chirakkara
33	30	E.T George Elanjimattathil house, payyampalli PO 670645	Mananthavady	9946930503	No	Mananthavady	Valliyoorkavu
34	31	P.A.Kurian Poodimattathil house, Payyampilli PO 670645	Mananthavady	9544335887	No	Mananthavady	Payyampally
35	32	K.Rafeeq Kanjai, Valeri PO 670645	Edavaka	9744248253	No	Mananthavady	Kallody
36	33	K.Kunhammed Keeriyil house, Kaithakkal PO 670645	Edavaka	9400422128	No	Mananthavady	Pallamuku,
37	34	T.Moosa Thirikkodan house, Thonichal. 670645	Edavaka	9447060850	No	Mananthavady	Thonichal
38	35	M.Aysha Marmmookker house Kelloor PO 670645	Edavaka	9447109491	No	Mananthavady	Dwaraka
39	36	K.Abdulla Kazhichamkandy, Kelloor PO 670731	Vellamunda	9605289783	No	Vellamunda	Peechemkode
40	37	C.H.Ibrahim Mukkuthy house, Peechangode, kelloor PO 670731	Vellamunda	9446162621	No	Vellamunda	Kattayad, 7/4
41	38	P.Muhammed Zubaitha manzil, Tharuvana PO 670731	Vellamunda	9961137170	No	Vellamunda	Tharuvana
42	39	K.A.Abdulla Kazhicham kandy, Kelloor PO 670731	Vellamunda	9995526688	No	Vellamunda	Kelloor
43	40	Asmila, Odan House, Anjukunnu.P.O 670721	Panamaram	9539419121	No	Panamaram	Mukkath
44	41	U.Moosa uppy house, Anjukunne PO 670721	Panamaram	9447518316	No	Panamaram	Anjukunnu
45	42	O.K.Shaju Oravanamthadathil house, Pallikkunne PO 670721	Panamaram	9656591010	No	Panamaram	Pallikunnu
46	43	C.V.Thomas, Chirahdhrurath (H) Ellumannam 670645	Edavaka	9747471529	No	Mananthavady	Ellumannam

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

47	44	P.Usman Pilankandy house, Panamaram PO 670721	Panamaram	9995762361	No	Panamaram	Kappumchal
48	45	P.V.Vasudevan Aneesh Mandirim Kodothummel PO 670721	Panamaram	9947364561	No	Panamaram	Karimbummal
49	46	M.Abdul Nowshad Mananthala house, Panamaram PO 670721	Panamaram	9995092859	No	Panamaram	Panamaram
50	47	E.K.Balakrishnan Nair Meethal (h) Cherkkattoor PO 670721	Panamaram	9961005515	No	Panamaram	Punjavayal
51	48	P.K.Santhamma Kalasadanam, house 670644	Thavinhal	9744812667	No	Talapuzha	Valad
52	49	Binu Jose thannikkal house vemam PO 670645	Mananthavady	9349010674	No	Mananthavady	Chettapalam, Vincentgiri
53	50	K.A.Ayoobkhan Kadyingalathilan, house, Thoundernadu PO 670731	Thonernadu	9446889267	No	Korome	Niravilpuzha
54	51	A.C.Nandakumar Ulickal house Thrissilleri PO 670646	Thirunelly	9946926948	No	Thirunelly	Thrissilery
55	52	T.Safiya thottoli house, Tharuvana PO 760731	Vellamunda	9745630397	No	Vellamunda	Cherukara
56	53	T.M.Suresh Thuppalloor house, Bhaveli PO 670646	Thirunelly	9946317933	No	Thirunelly	Palvelicham
57	54	K.Andru Kunningarath house, Vellamunda PO	Vellamunda	9744737229	No	Vellamunda	Kandathuvayal
58	55	M.A.Babu Mele thalpuzha, Chirakkara. PO 670644	Thavinhal	9526778803	No	Talapuzha	Thalapuzha
59	56	P.Shahina Palliyal house Vellamunda PO 670731	Vellamunda	8943968387	No	Vellamunda	Pulinjal
60	57	P.Bhaskaran Harisree, Mananthavady 670645	Mananthavady	9496442103	No	Mananthavady	B Steet
61	58	Sekeena.K. Bran (H) Ellumannam PO 670645	Edavaka	9947407003	No	Mananthavady	Pallikal, 2/4
62	59	M.K.Narayanan Saraswathi mandirim Kamplakkad PO 670721	Panamaram	9446648592	No	Panamaram	Kaithakkal
63	60	P.J.Babu Pulithookil Valad po. 670644	Thavinhal	9961889375	No	Talapuzha	Valad
64	61	N.Prabhakaran Nair Ampryakkunneth Panavally PO Thrissilaeri 670646	Thirunelly	9946598341	No	Thirunelly	Panavally

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

65	62	P.J.Joseph Painedath house Karrakkamala PO 670721	Panamaram	9847273967	No	Panamaram	Karakkamala
66	63	P.Jagadeeshkumar Prasanth Bhavan House , PO Anjukkunne. 670721	Panamaram	9947892432	No	Panamaram	Varummel Kadavu
67	64	A.C.Vijayalakshmi sindu nivas tirunelli temple po. 670646	Thirunelly	9656159107	No	Thirunelly	Thirunelly
68	65	A.Abdulla AYANKI HOUSE Anjukkunne PO 670645	Edavaka	9447849734	No	Mananthavady	Kammana
69	66	A K Praseetha Bittu nivas Echome PO 670721	Panamaram	9847069924	No	Panamaram	Vilambukanadam
70	67	T.M.Ramachandrakurup Tengninthottathil house, Payyampally P.O 670645	Mananthavady	9446892520	No	Mananthavady	Koilery
71	68	M.Chandran Mulayathummel house Kattayad PO 670731	Vellamunda	9605499183	No	Vellamunda	Ozhukkanmoola
72	69	A.R.Santhosh Chittukkattu house Edavaka PO 760645	Edavaka	9961141435	No	Mananthavady	Ayilamoola
73	70	T.K.Yohannan Thellakkatt house Neervaram. PO 670721	Panamaram	9947511972	No	Panamaram	Neervaram
74	71	K.ABDULLA. Mullankandy house, Nareekal po. 670646	Thirunelly	9946915987	No	Thirunelly	Aranappara
75	72	M.Abdulrahiman Makky house Tharuvana PO 670645	Edavaka	9446733107	No	Mananthavady	Pandikkadavu
76	73	K.Ebrayi Kanjai House Vellamunda PO 670731	Vellamunda	9746748968	No	Vellamunda	Tharuvana,Kunnumal Angady
77	74	K.K.Shareefa Korrankunnan house, Tharuvana PO 670731	Vellamunda	9745630397	No	Vellamunda	Karingary, Tharuvana
78	75	P.Shaji Payyanickal house, Porur P.O. 670644	Thavinhal	9656501286	No	Talapuzha	Yavanarkulam
79	76	N.F.Scariya Naduvattoor house Alattil PO 670644	Thavinhal	9388263022	No	Talapuzha	Alattil
80	78	C.M.Johnson Chemmenathara house Cherukaattoor PO 670721	Panamaram	9446162597	No	Panamaram	Koolivayal
81	79	Joisy.M.J. Mulamkunneth house Vimalanagar PO 670644	Thavinhal	9961943603	No	Talapuzha	Thavinjal, Thidangazhi

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

82	80	M.T.Surendran, Mukalel, Chundakkunnu, Arincher mala P.O 670721	Panamaram	9539873277	No	Panamaram	Chundakunnu
83	82	K.P.Varghese Kalluvathukkal house, Edayoorkkunnue PO 670646	Thirunelly	9447297797	No	Thirunelly	Kartikulam
84	83	V.M.Sunny Vandannoor house, Kaniyaram PO 670645	Mananthavady	9446892441	No	Mananthavady	Ozhakody
85	85	K.V.Johny Kunneth house , Edavaka PO 670645	Edavaka	9495478627	No	Mananthavady	Pathirichal
86	86	T.Aboobacker Thekkadath house, Panamaram PO 670721	Panamaram	9447151109	No	Panamaram	Panamaram
87	87	A.Shajilkumar Pattamveetil house, Valad PO 670731	Thavinhal	9847620304	No	Talapuzha	Valad HS
88	88	M.P.Kuriyakkose Mamabillikuzhiyil house, Makkiyad PO 670731	Thonernadu	9446640654	No	Korome	Palery, Korom
89	89	K.M.Joseph Kuliraniyil house Thrissleri PO 670646	Thirunelly	9961858879	No	Thirunelly	Thrissilery
90	90	Lissy Jolly Oravanamthadathil house, Pallikkunne PO 670721	Panamaram	9745633031	No	Panamaram	Echom
91	91	P.M.Tomy Perumatti kunnel house, Makkiyad PO 670731	Thonernadu	9539418898	No	Korome	Puthussery, Makkiyad
92	93	M.R.Suresh, Mavumkandy, Kampetty PO 670644	Thavinhal	9744619921	No	Talapuzha	Edamana, Kannothumbala
93	94	Joseph K J Kavannel house, Kammana po. 670645	Mananthavady	9744515542	No	Mananthavady	Kammana Palam
94	95	M.D.Saji Manadaniyil house, Kommayaad PO 670731	Vellamunda	9947730735	No	Vellamunda	Kommayad
95	96	K.K.Shobha Puthuparambil house, Cherukkara PO 670644	Thavinhal	9745149569	No	Talapuzha	Makkimala
96	97	V.Padmaja Jithin nivas, Vemam PO 670645	Mananthavady	9446162168	No	Mananthavady	Ondayangady
97	98	M.P.Kuriyakkose Mamabillikuzhiyil house , Makkiyad PO 670731	Thonernadu	9446640654	No	Korome	Palery, Korom
98	99	Sreenivasan Macheri colony, Kattayad PO 670731	Vellamunda	9592049112	No	Vellamunda	Alanchery Mukku

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

99	100	N.K.Rajani Kalapurackal House, Arattuthara PO 670645	Mananthavady	9847768315	No	Mananthavady	Valliyoorkavu
100	101	K.C.Jose Kizhakkemannur house, Arraattuthara.po. 670645	Mananthavady	9496658606	No	Mananthavady	Bus Stand
101	102	Hentri Sebastian Kalathil veedu, S valave mananthavady. 670645	Mananthavady	9446889258	No	Mananthavady	S Valavu
102	103	M.Aboobacker Mannakandi house, Thalapuzha PO 670644	Thavinhal	9946265585	No	Talapuzha	Thalapuzha
103	104	E.K.Hameed Ellathkuningarath house Kattayad PO 760731	Vellamunda	9946265585	No	Vellamunda	Vellamunda, 9 mile, pazhanchana

### Proforma 7

#### PROFORMA SHOWING THE DETAILS OF CONNECTIVITY OF AWD's/ARD's

**DISTRICT : Wayanad / TALUK : Sulthan Bathery**

Sl No.	AWD/ ARD No.	Name Of Licence	Contact No.	Name of Local Body	Telephone Exchange Concerned	Location (Specify Any Land Mark)	Whether Having Landline Telephone In The Shop (If Yes Specify The Ph.No. Or Any Near By No)	Whether BSNL Signal Is Available And If Not, Available Service Provider
1	1	C.Gheetha	9447757078	Bathery	Bathery	Bathery	225668	
2	2	Jishaabraham	9447317009	Bathery	Bathery	Bathery	225668	
3	3	Joseph.K.J	9400664965	Bathery	Bathery	Bathery	228090	
4	4	Premlal	9447413958	Bathery	Bathery	Bathery		
5	5	E.Lakhmanan	9447437806	Bathery	Bathery	Beenachi	228097	
6	6	Vinodchandran	9447413958	Bathery	Bathery	Poomala		
7	7	Jose Kurian	9447933954	Noolpuzha	Bathery	Moolamkavu		
8	8	P.M.Joseph	9745148050	Bathery	Bathery	Chethalayam	238146	
9	9	Anilstephen	9447109771	Nenmeni	Cheeral	Nambikolly		
10	10	P.M.Baby	9400664965	Noolpuzha	Bathery	Valluvadi	225976	
11	11	A.K.Ahammed	9447546313	Noolpuzha	Noolpuzha	Naikatty		
12	12	P.Abdulsalam	9656363444	Noolpuzha	Noolpuzha	Naikatty		

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

13	13	Lenilstephen	9447357789	Noolpuzha	Noolpuzha	Kalloor	270181	
14	14	Karunakaran	8547462098	Noolpuzha	Noolpuzha	Nenmenikunnu		
15	15	Resmi Rajan	9544250037	Noolpuzha	Noolpuzha	Muthanga	270677	
16	16	Mathai	9539172791	Nenmeni	Cheeral	Cheeral		
17	17	Kunjhan	9447410813	Nenmeni	Cheeral	Cheeral	262795	
18	18	Parvathi	9447410813	Nenmeni	Cheeral	Cheeral	262795	
19	19	Abdurahiman	9656346845	Nenmeni	Chulliyode	Koliyadi		
20	20	P.P.Alikoya	9946571113	Nenmeni	Chulliyode	Madakkara	266244	
21	21	P.Muhammedkoya	9400666149	Nenmeni	Chulliyode	Chulliyode	267149	
22	22	K.A. Jacob	9447340094	Nenmeni	Bathery	Manivayal	221209	
23	23	T.Mohammed	9447082868	Ambalavayal	Ambalavayal	Anapara	260429	
24	24	D.Devanad	9447335709	Ambalavayal	Ambalavayal	Ambalavayal	260636	
25	25	Devaraj	9447335709	Ambalavayal	Ambalavayal	Ambalavayal	260636	
26	26	K.Mariyumma	9447639975	Ambalavayal	Ambalavayal	Manjapara	260726	
27	27	P.Muhammed	9447546125	Ambalavayal	Ambalavayal	Andoor	261127	
28	28	N.M.Thomas	9495366909	Ambalavayal	Vaduvanchal	Thomattuchal	217312	
29	29	C.Janardanan Nair	9656582429	Ambalavayal	Ambalavayal	Nellarachal	278679	
30	30	O.J.Tomy	9446656024	Ambalavayal	Ambalavayal	Kumbalery	249467	
31	31	M.K.Chandrasekharan	9961036171	Ambalavayal	Meenangady	Karachal		
32	32	K.Kujabdulla	9495257860	Meenagadi	Meenangady	Meenagadi		
33	33	M.Abdulnazar	9447447308	Meenagadi	Meenangady	Meenagadi		
34	34	M.Yusuf	9495292524	Meenagadi	Meenangady	Meenagadi	248684	
35	35	P.Thomas	9947402988	Meenagadi	Meenangady	Palakkamoola	247778	
36	36	Chandrika Achuthan	9048452523	Meenagadi	Kenichira	Choothupara	214059	
37	37	T.S.Latha	9447849729	Meenagadi	Meenangady	Krishnagiri	248063	
38	38	C.Padminiamma	9539376615	Meenagadi	Meenangady	Mylampadi		
39	39	T.K.Mathai	9946927343	Meenagadi	Bathery	Kolagapara	225434	
40	40	Vijayakumar	9447084669	Poothadi	Poothadi	Nadavayl	211280	
41	41	Somachandran	9961597572	Poothadi	Poothadi	Poothadi	210980	
42	42	Surendran	9495367539	Poothadi	Poothadi	Kenichira	211579	
43	43	Ismail.C.M	9961567807	Poothadi	Poothadi	Kolery	210298	
44	44	Geetha Prakash	9645240405	Poothadi	Poothadi	Vakery		
45	45	Ravi Kuttappan	9656498045	Poothadi	Poothadi	Paplassery	238839	
46	46	Rajappan	9747053633	Poothadi	Poothadi	Erulam		



## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

47	47	Moosa.C	9446295445	Pulpally	Pulpally	Pakkom	245396	
48	48	Pappachan	9605329866	Pulpally	Pulpally	Veliyambam	243515	
49	49	Jose.C.A	9656732087	Pulpally	Pulpally	Anapara	242349	
50	50	Poulose.M	9847537436	Pulpally	Pulpally	Pulpally	240177	
51	51	Sabu Joseph	9744394929	Pulpally	Pulpally	Pulpally	240111	
52	52	Suresh Kumar.M.B	9447447377	Pulpally	Pulpally	Pulpally		
53	53	Suresh.A.S	9946596515	Pulpally	Pulpally	Pulpally		
54	54	Saji.M.J	9745808363	Mullankolly	Mullankolly	Chettapalam	240527	
55	55	Unnikrishna Pillai	9447933761	Pulpally	Pulpally	Kappiset	242012	
56	56	Dinesh Kumar	9946047657	Mullankolly	Mullankolly	Pattanikoop		
57	57	Jaseentha	9447216946	Mullankolly	Mullankolly	Perikkalloor		
58	58	Santhosh	9961934535	Mullankolly	Mullankolly	Chamappara	234162	
59	59	Anirudhan	9447150748	Mullankolly	Mullankolly	Padichira		
60	60	Bijesh	9446797336	Mullankolly	Mullankolly	Sasimala		
61	61	A.K.Radhakrishan	9747574932	Noolpuzha	Noolpuzha	Vadakkanad	222163	
62	62	P.A.Sebastian	9745336462	Ambalavayal	Ambalavayal	Kadalmadu	218119	
63	63	N.U.Varghese	9946610463	Bathery	Bathery	Kottakunnu		
64	64	Joy.M.J	9744842575	Pulpally	Pulpally	Shed	213723	
65	65	M.Abdurahiman	9961549010	Bathery	Bathery	Kalluvayal	227382	
66	66	E.Hamsa	9744845165	Nenmeni	Bathery	Mundakolly		
67	67	Rajesh	9847062847	Ambalavayal	Nenmeni	Ozhalakolly	261774	
68	68	T.N.Sudhakaran	9744858998	Meenagadi	Vakery	Ceecee	229411	
69	69	V.J.Manilal	9847364203	Meenagadi	Vakery	Arivayal		
70	70	P.K.Aliyas	9947312041	Nenmeni	Nenmeni	Puthenkunnu	223178	
71	71	Siju George	9447637056	Mullankolly	Mullankolly	Mullankolly	240105	
72	72	N.I.Gangadharan	9400847807	Meenagadi	Meenangady	Appad		
73	73	Appachan	9747858077	Mullankolly	Mullankolly	Kabanigiri	234677	
74	74	Thomas.M.J	9447545149	Mullankolly	Mullankolly	Mullankolly	246608	
75	75	T.T.James	9447545149	Meenagadi	Meenangady	Athinilam	246608	
76	76	Chenthamarakshan	9400617318	Ambalavayal	Meenangady	Parumbadikunnu	217318	
77	77	C.H.Mehrali	9961658836	Nenmeni	Vaduvanchal	Thovarimala		
78	78	K.Ismail	8547069106	Bathery	Nenmeni	Kuppadi		
79	79	K.V.Chacko	9446843076	Bathery	Bathery	Karuvallykunnu	223805	
80	80	Shibu.P.G	9447351214	Pulpally	Bathery	Marappanmoola	242167	

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

81	81	K.K.Sivadasan		Ambalavayal	Pulpally	Ayiramkolly	310085	
82	82	Yohannan	9745118212	Poothadi	Ambalavayal	Thazamunda	21097	
83	83	Varghese.C.C	9747420473	Poothadi	Poothadi	Moodamkolly	229274	
84	84	Premarajan	9447933725	Pulpally	Pulpally	Thanitheruvu	243694	
85	85	Bava.K	9961258110	Poothadi	Poothadi	Nelliyambam		
86	86	Jayamol.K	9446648503	Poothadi	Poothadi	Manalvayal		
87	87	T.R.Mohanan	9446162137	Bathery	Bathery	Thelampetta	224293	
88	88	K.Abdulkarim	9961300932	Nenmeni	Nenmeni	Karadipara		
89	89	Sandhya	9605139868	Ambalavayal	Mepady	Puttad		
90	90	V.M.Mohandas	9446640884	Nenmeni	Nenmeni	Nambiarkunnu		
91	91	Santhakumari	9744812057	Poothadi	Poothadi	Valanchery		
92	92	Ibrahim.M.C	9447434415	Poothadi	Poothadi	Cheeyabam	228504	
93	93	V.Ibrahim	9048010624	Nenmeni	Nenmeni	Ambukuthy	261102	
94	94	Subash	9447350910	Pulpally	Pulpally	Chekadi		
95	95	Vincent	9447679161	Nenmeni	Nenmeni	East Cheeral		
96	96	K.M.Musthafa	9447297346	Bathery	Bathery	Block Office		
97	97	Abdulnazar	9447317070	Meenagadi	Meenangady	Chendakkuni		
98	98	Abdulbasheer	9746440891	Nenmeni	Nenmeni	Kozhuvana	262286	
99	99	Varghese.K.E	9497085611	Mullankolly	Mullankolly	Kolavally	234490	
100	100	O.J.Tomy	9349222658	Ambalavayal	Ambalavayal	Adivaram		
101	101	M.Moideenkutty	9605991376	Bathery	Bathery	Manikuni	221786	
102	102	Gopinathan	9495143388	Poothadi	Poothadi	Thazhamunda	210988	
103	103	K.V.Shameer	9746893417	Meenagadi	Meenangady	Cheeramkunnu		
104	104	P.A.Nandini	9947454534	Nenmeni	Nenmeni	Cherumadu		
105	105	P.Asharaf	9447544927	Ambalavayal	Bathery	Kuppamudi		
106	106	M.C.Saji	9744066015	Nenmeni	Nenmeni	Chulliyode		
107	107	Balan.I.A	9947076438	Poothadi	Poothadi	Erulam		
108	108	Sujith.M.U	9961342737	Pulpally	Pulpally	Amarakkuni	242108	
109	109	Supriya	9048677765	Poothadi	Poothadi	Valavayal		
110	110	Abhilash.P	9048333753	Nenmeni	Nenmeni	Makkutty		
111	111	Sherly.K.Y	9447933091	Bathery	Bathery	Vengoor		
112	112	P.M.Dasan	9847343273	Bathery	Bathery	Pazhupathoor		
113	113	Shemeena.P.M	9496658712	Ambalavayal	Ambalavayal	Ambalavayal	260944	
114	114	Salamma Jacob	9447219640	Poothadi	Poothadi	Nellikara		

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

115	115	Muhammed Shafi	9847558044	Meenagadi	Meenangady	Mepperikunnu		
116	116	P.Suresh	9747218025	Noolpuzha	Noolpuzha	Madamangalam		
117	117	A.K Savith		Meenagadi	Kakkavayal	Mepperikunnu		
118	118	Beena Karthikeyan	9947547480	Poothadi	Meenangady	Manivayal		
119	119	Remyashinu	9744858227	Mullankolly	Mullankolly	Manchuvadu		
120	120	P.N. Sarath		Poothady	Poothadi	Nadavayal		
121	AWD-3	Muhammadali Traders	9447297585	Bathery	Bathery	Bathery		
122	AWD-4	C.P Zubaitha	9847139363	Bathery	Bathery	Kolagapara		

### PROFORMA 7

#### PROFORMA SHOWING THE DETAILS OF AWD's/ARD's

**DISTRICT : WAYANAD / TALUK : VYTHIRI**

Sl No.	AWD/ KWD/ARD No.	Name of Licence	Address of the AWD/KWD/ARD With Pin	Name of Local Body	Contact Person & Cell No.	Landline Telephone No Of The Shop With Std Code (If Not, Any Nearby Number)	Telephone Exchange Concerned	Location (Specify Any Land Mark)
1	Awd1	C.P. Kunhi Muhammed	M.K.C & Brothers, Awd I, Kainatty, Kalpetta 673 122	Kalpetta	9447357659		Kalpetta	Kalpetta
2	Awd11	K.P. Muhammed Mustafa	K.E. Associates, Awd Ii, Puliyarmala- 673 121	Kalpetta	9447393982		Kalpetta	Kalpetta
1	1	A.P. Hamsa	Ambalapparamban, Kalpetta North, Kalpetta 673 122	Kalpetta Municipality	9495084826		Kalpetta	Kalpetta Market Road
2	2	K. Sivadasan	Thalippuzhakkunnu, Vythiri - 673 576	Kalpetta Municipality	9995187707		Kalpetta	Kalpetta, Madiyoorkuni
3	3	M.P. Subaida	Thalappoyil House, Maniyamkode - 673 121	Kalpetta Municipality	9496165927		Kalpetta	Maniyamkode
4	4	V. Jayalakshmy	Parvathy Siva Nivas, Muttill P.O - 673 122	Kalpetta Municipality	9447075008		Kalpetta	Kainatty

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

5	36	K. Sharafudheen	Kaderi Veedu, Pariyaram- 673 122	Kalpetta Municipality	9895721809		Kalpetta	Emily
6	63	V. Faisal	Puthiya Veedu, Paralikkunnu, Kambalakkad - 673 122	Kalpetta Municipality	9846128062		Kalpetta	Goodalay
7	77	U. Muhammadali	Shahina Nivas, Puthoorvayal 673 121	Kalpetta Municipality	9744282080		Kalpetta	Puthoorvayal
8	79	P. Rasheeda	Puthukkudi Veedu, Goodalay, Kalpetta – 673 121	Kalpetta Municipality	9446640363		Kalpetta	Ambilery
9	91	P.S. Mohanan	Bhakthi Nivas, Puliarmala, Kalpetta North - 673 122	Kalpetta Municipality	9605288656		Kalpetta	Puliarmala
10	93	P. Ibrahim	Vayanthothu Veedu, Maithani, Kalpetta - 673 122	Kalpetta Municipality	9495307277		Kalpetta	Mess House Road
11	21	K.K. Subaida	Koyathoduka, Kaniyambetta 673121	Kaniyambetta	9995918192		Pallikkunnu	Koodothummal
12	22	C. Kunjiraman	Saraswathi Mandiram, Madakkimala 673 121	Kaniyambetta	9447431963		Pallikkunnu	Kambalakkad
13	23	S. Ramachandran	Sakthiswarath, Varadoor 673 591	Kaniyambetta	8606228502		Pallikkunnu	Karani
14	28	A. Aboo	Areekkattu, Cheekkalloor P.O	Kaniyambetta	9539944931		Pallikkunnu	Varadoor
15	52	C. Raveendran	Kaniyambetta 673 121	Kaniyambetta	9495891068		Pallikkunnu	Kaniyambetta
16	55	C.P. Balakrishnan	Sakthiswarath, Karani 673121	Kaniyambetta	9744808902		Pallikkunnu	Puthoor
17	66	E.K. Narayanan	Erumbamkandiyil, Kambalakkad 673 121	Kaniyambetta	9495892109		Pallikkunnu	Pallimukku
18	69	A. Abdurahman	Arakkal, Kambalakkad 673 121	Kaniyambetta	9746086025		Pallikkunnu	Mullamparambath (1-St Mile)
19	84	E.K. Madumohan	Erumbumkandy House, Kambalakkad 673 121	Kaniyambetta	9947137237		Pallikkunnu	Millumukku
20	8	M. R. Parasuraman	Rajendra Estate, Madakkimala 673 121	Muttill	9947949552		Kalpetta	Madakkimala

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

21	24	T.K. Safiya	Palarambath, Muttill 673 121	Muttill	9746560655		Kalpetta	Muttill
22	25	U. Abdul Nazer	Uthel Veedu, Pariyaram, 673 122	Muttill	9447219328		Kalpetta	Pariyaram
23	26	K.M. Hameed Kunju	Kuttikkattu Thazhe, Kakkavayal, 673 122	Muttill	9544268256		Kalpetta	Thenery
24	27	U.U. Joseph	Ullattil Veedu, Vazhavatta, 673 122	Muttill	8281161690		Kalpetta	Vazhavatta
25	51	P. Kunjabdulla	Palarambath, Muttill, 673 122	Muttill	9946596601		Kalpetta	Muttill
26	53	K.O. Louise	Kottarathil Veedu, Pakkam, Vazhavatta, 673 122	Muttill	9747599281		Kalpetta	Pakkam
27	60	M.V. Scariya	Marottikkattil, Mandad. 573 122	Muttill	9497085479		Kalpetta	Mandad
28	76	P.T. Mani	Pinippuzha Veedu, Kolovayal, 673 122	Muttill	9961553070		Kalpetta	Kolavayal
29	78	V. Govindan	Vazhavatta House, Vazhavatta, 673 122	Muttill	9447386021		Kalpetta	Kallupady
30	81	V. Jayalakshmy	Parvathy Siva Nivas, Muttill P.O - 673 122	Muttill	8281938074		Kalpetta	Edappetty
31	87	P. Sajeewan	Pokkattu Veedu, Paralikkunnu, Madakkimala, 673 122	Muttill	9446257554		Kalpetta	Paralikkunnu
32	92	E.K. Kurian	Maravattikkattil, Mandad, Muttill, 673 122	Muttill	9495049822		Mandad	Mandad
33	99	K. Raheena	Kuttamangalam, Muttill, 673 122	Muttill	9656267947		Mandad	Kuttamangalam
34	10	K. Sivadasan	Thalippuzhakkunnu, Vythiri - 673 576	Vythiri	9447545266		Vythiri	Thalippuzha
35	11	R. Palaniswami	Vythiri - 673 576	Vythiri	9447518174		Vythiri	Vythiri
36	12	A.K. Assain	Adiyattil, Chundel- 673 123	Vythiri	9847175228		Vythiri	Chundel
37	13	K.K. Narayanan Nair	Sreethilakam, Kunnambatta P.O - 673 123	Vythiri	9744056868		Vythiri	Chundel

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

38	32	P. Ramachandran	Pulparambil, Vythiri - 673 576	Vythiri	9142306098		Vythiri	Vythiri
39	35	P. Rathnavally	Meera Nivas, Perunthatta - 673 121	Vythiri	9496714273		Vythiri	Chundel
40	80	C. Ramachandran	Mayanilayam, Madiyooukkuni, Kalpetta - 673 121	Vythiri	9656346306		Vythiri	Old Vythiri
41	16	K.P. Arun	Kooramparambil, Thrikkaippatta - 673 122	Meppady	9745014501		Mandad	Uppupara
42	18	K.M. Shajahan	Lorath Veedu, Mundakkutty P.O, Padinjarathara, 673 575	Meppady	9495144347 (Pareeth)		Meppady	Kottanad (46)
43	19	V.K. Thajudheen	Velliyamkallan Veedu, Elavayal, 673 577	Meppady	8547152234 (Fernadus)		Meppady	Meppady
44	20	P. Rosamma	Puthiyedath, Maliyekkal, Thrikkaippatta, Meppady, 673577	Meppady	9544253913		Meppady	Puthukkudymukku
45	38	K.K. Balakrishnan	Krishnapuri, Kunnambatta, Meppady, 673 577	Meppady	9747421250		Meppady	Kunnampatta
46	39	K.T. Moideenkutty	Kaniyathodi, K.B. Road, Meppady, 673 577	Meppady	9961407519		Meppady	Meppady
47	40	K.P. Amina	Arathiveekkal, Puthumala, Meppady , 673 577	Meppady	9947635327		Meppady	Meppady
48	41	Assya	Poongadan, Meppady, 673577	Meppady	9947230816		Meppady	Meppady
49	44	V.K. Kunammed	Velliyamkallan Veedu, Puthumala, 673 577	Meppady	9744927779		Chooralmala	Poothumala
50	46	N. Manoj	Vellarmala, Meppady, 673 577	Meppady	9847630270		Chooralmala	Chooralmala
51	47	V.K. Kunammed	Velliyamkallan Veedu, Puthumala, 673 577	Meppady	9744927779		Chooralmala	Chooralmala
52	70	C.P. Rajeena	Chentheppatta, Thrikkaippatta, Meppady, 673577	Meppady	9946610582		Mandad	Nellimalam

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

53	86	K. Sumesh Babu	Surabhi Bhavan, Arappatta, 673 577	Meppady	9656363119		Meppady	Kadoor
54	96	A.K. Assain	Adayattil House, Chundel, 673 123	Meppady	9539341064		Meppady	Odathode
55	97	P.A. Shameer	Panthalamkunnen, Meppady, 673 577	Meppady	9961553617		Meppady	Chembothara
56	29	Shibi John	Thekke Angadiyath, Manjappara, 673 577	Mooppainad	9496666150		Vaduvanchal	Vaduvanchal
57	30	P. Aravindakshan	Amal Nivas, Nedumkarana, 673 577	Mooppainad	9961517150		Meppady	Nedumkarana
58	31	A. Jaseena	Alukkal Veedu, Rippon P.O, 673 577	Mooppainad	9847914909		Meppady	Rippon
59	42	V. Indu	Vallamakkal, Thinapuram, Meppady, 673 577	Mooppainad	9961439317		Meppady	Thinapuram
60	43	K.C. Sudhakaran	Kadoor Veedu, Meppady, 673 577	Mooppainad	201610		Meppady	Arappatta
61	48	Shibi John	Thekke Angadiyath, Manjappara, 673 577	Mooppainad	9496666150		Vaduvanchal	Vaduvanchal
62	14	A. Nachi Muthu	Karuvanthode, Achooranam, 673575	Pozhuthana	9605608911		Vythiri	Pozhuthana
63	15	Ramesh Kumar	Karuvanthode, Achooranam, 673 575	Pozhuthana	9747516882		Vythiri	Achoor
64	33	R. Chenniyappan	Karuvanthode, Achooranam, 673 575	Pozhuthana	9605185321		Vythiri	Pozhuthana
65	34	R. Palaniswami	Karuvanthode, Achooranam, 673 575	Pozhuthana	9562248290		Vythiri	Pozhuthana
66	56	P. Usman	Puthiyolath, Vengappally, 673 121	Pozhuthana	9745353217		Vythiri	Pinangode
67	67	M.K. Sivasankaran	Madathvayal, Chennalode, 673 121	Pozhuthana	9947872141		Vythiri	Sugandagiri
68	83	C. Kunjayammu	Chemban Veedu, Achooranam, 673 575	Pozhuthana	9947936835		Vythiri	6th Mile

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

69	5	K.T. Muhammed	Kavungumthottathil, Kavumandam, 673 121	Thariode	9495167223		Thariode	Kavumandam
70	54	R. Balasubrahmaniam	Perumthatta Estate, Chundel P.O, 673 123	Thariode	8592898118		Thariode	Kappuvayal
71	58	P.H. Charls	Kuttiyamvayal, Kavumandam, 673 121	Thariode	9995551352		Thariode	Manjoora
72	98	Aboobacker Sidhique	Lakkallukulathil, Kavumandam, 673 121	Thariode	9947336683		Thariode	Thriode H.S
73	6	T.P. Abdulla	Thattathupoyil, Kuppadithara, 673 575	Padinjarathara	9605085313		Padinjarathara	Padinjarathara
74	9	V. Kunjabdulla	Varanda House, Mundakkutty, 673 575	Padinjarathara	9744129549		Padinjarathara	Kuppadithara
75	49	T. Musthafa	Thodan Veedu, Padinjarathara, 673 575	Padinjarathara	9495531883		Padinjarathara	Ppadinjarathara
76	50	A.M. Jaffer	Arakka Veedu, Kuppadithara, 673 575	Padinjarathara	9656057631		Padinjarathara	Puthussery
77	61	K.K. Ammed	Kaniyamkandy, Pozhuthana, 673 121	Padinjarathara	9747557029		Padinjarathara	Pandipoyil
78	65	K.S. George	Koovakkal Veedu, Arambattakkunnu, 673 575	Padinjarathara	9747249247		Padinjarathara	Arampattakkunnu
79	68	A. Mamoo	Arakka Veedu, Mundakkutty, 673 575	Padinjarathara	9747490222		Padinjarathara	Kuppadithara
80	71	K.N. Thankappan	Kuppumkuzhiyil, Mundakutty P.O, 673 575	Padinjarathara	9446073946		Padinjarathara	16 Th Mile
81	82	M.V. Johny	Mangottu Veedu, Manjoora, 673 575	Padinjarathara	9447933453		Padinjarathara	Peral
82	94	A.P. Abdurahiman	Aniyapraavan, Millumukku, 673 121	Padinjarathara	9961757840		Padinjarathara	Padinjarathara
83	37	P. Usman	Puthiyolath, Vengappally, 673 121	Vengappally	9400651677		Kalpetta	Pinangode
84	59	K.P. Damodharan	Kottappally Puthiyaveedu, Cholappuram, Vengappally, 673 121	Vengappally	9946690251		Kalpetta	Vengappally



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85	64	Abdul Nouseed	Kiliyanthodi, Vengappally, 673 121	Vengappally	9656647464		Kalpetta	Chooriyatta
86	88	K.V. Surendran	Rasna Bhavan, Thekkumthara, 673 121	Vengappally	9995736535		Kalpetta	Thekkumthara
87	89	K.V. Surendran	Rasna Bhavan, Thekkumthara, 673 121	Vengappally	8606090959		Kalpetta	Puzhamudi
88	90	Sumitra Baburajan	Kuttamangalam, Athimoola, Pozhuthana, 673 121	Vengappally	9656670529		Kalpetta	Athimoola
89	7	V. Abdul Nazer	Valliyil Veedu, Kottathara, 673 121	Kottathara	9946354949		Pallikkunnu	Venniyode
90	45	P. Rajan	Poothiridiyil, Madakkimala, 673 122	Kottathara	9744828523		Kalpetta	Madakkimala
91	57	C. Muraleedharan	Chirayil Veedu, Madakkimala, 673 122	Kottathara	9048670707		Pallikkunnu	Mailady
92	72	K. Ajith	Kanakapparambil, Madakkunnu, Valal, 673 122	Kottathara	9544269279		Thariode	Mechana
93	73	K. Velayudhan	Edatharakkunnil, Karimkutty, 673 122	Kottathara	9947871898		Pallikkunnu	Thekkumthara
94	75	P.D. Varghese	Parayil Veedu, Madakkunnu, 673 122	Kottathara	9447398317		Thariode	Madakkunnu
					<b>Certified that the all ration shops in Vythiri Taluk are electrified.</b>			

**ANNEXURE 6**

**KSEB**

SI. No.	Name of Office	Telephone	Mobile No:
1	Deputy Chief Engineer, Elec: Circle	04936 202259	9446008329
2	Ee, Elec:Dvn, Matvdy	04935 246200	9446008331
3	Ast:Ee, Kalpetta	04936 205844	9446008330
4	Ast:Ee, Matvdy	04935 240289	9496010677
5	Ast:Ee, Kalpetta	04936 202398	9496010633
6	Ast:Ee,Panamaram	04935 220796	9496010666
7	Ast:Ee,Sb	04936 220210	9496010655
8	Ast:Ee, Matvdy	04935 240289	9496010676
9	Ast:Ee, Kattikulam	04935 251111	9496011755
10	Ast:Ee, Pulppally	04936 242950	9496010669
11	Ast:Ee, Padichara	04936 235500	9496018330
12	Ast:Ee, Padinjaraethara	04936 273163	9496011790
13	Ast:Ee, Vellamunad	04935 231155	9496010682
14	Ast:Ee,Thavinjal	04935 257100	9496010678
15	Ast:Ee,Panamaram	04935 220796	9496010664
16	Ast:Ee,Kalpetta	04936 202398	9496010631
17	Ast:Ee, Vythiri	04936 255261	9496010644
18	Ast:Ee,Meppady	04936 282200	9496010640
19	Ast:Ee,Ambala Vayal	04936 261650	9496010597
20	Ast:Ee,S Bathery ( East )	04936 220210	9496010656
21	Ast:Ee, S Bathery (West)	04936 222022	9496010660
23	Ast:Ee, Meenagady	04936 248110	9496010650
24	Ast:Ee, Muttill	04936 202337	9496012311
25	Ast:Ee, Kambalakkad	04936 286700	9496010636

**DETAILS OF POWER TRANSMISSION SUBSTATION OF KSEB IN WAYANAD DISTRICT**

Sl.No	Name and Address of the Substation	Capacity in MVA	Contact No
1	220 KV Substation, Kaniyambetta	2x50 MVA(220/66KV)	9496 011 006
2	66 KV Substation, Kuthumunda	2X10 MVA(66/11KV)	9496 011 009
3	66 KV Substation, Sulthan Bathery	2x6.5MVA(66/11 KV)	9496 011 014
4	66 KV Substation, Mananthavady	2X10 MVA(66/11KV)	9496 011 012
5	66 KV Substation, Anjukunnu	2x5 MVA(66/11 KV)	9496 011 768
6	33 KV Substation, Meenangady	2x5 MVA(33/11 KV)	9496 011 027
7	33 KV Substation, Pulpally	1x5 MVA(33/11KV)	9496 011 029
8	33 KV Substation, Maniyankode	2x5 MVA(33/11 KV)	9496 011 026
9	33 KV Substation,Padinjarathara	2x5 MVA(33/11 KV)	9496 011 028

ANNEXURE 7

**FIRE & RESCUE**

**Details of vehicles & other equipments in Fire & Rescue Stations Under Assistant Divisional Office, Fire & Rescue Services, Kalpetta**

Fire Force	Fire Force Amenity details (Year Wise)					No. of Stations	Address of Stations Station Officer, Fire & Rescue Station, Kalpetta
	Details of other Vehicles		Received year	Details of other Equipments			
Kalpetta	1.	MTU KBT 9847	1987	Portable Pump	1990	1	
	2.	Emergency Tender KBT 7427 TATA	1990	Generator	1990		
	3.	MTU KL-01B 5640	1992	Exhaust Blower	1990		
	4.	Jeep KL-01 AB-388	2003	Electric Chainsaw	1993		
	5.	MTU KL-01 AE-3519	2004	Chainsaw	2003		
	6.	QRV KL-01 BF-8592	2012	Aska Light	2009		
	7.	Bullet KL-01 BG-3484	2012	Yamaha Out board engine	2010		
				Chainsaw	2010		
				Hydraulic Pump	2010		
				Aska Light	2012		
				Power cutter	2012		
				Float Pump	2014		
			Generator Honda	2013			

Fire Force	Fire Force Amenity details (Year wise)					No. of stations	Address of Stations Station officer, Fire & Rescue Station, Mananthavady
	Details of other Vehicles		Received year	Details of other Equipments			
Mananthavady	1	MTU KL-01-AF-7708	2004	Portable Pump	2004	2	
	2.	MTU KL-01-AM-4761	2004	Chainsaw	2007		
	3	MTU KL-01-BE-5395	2011	Float Pump	2012		
	4	Ambulance KL-01-Z-6398	2002	Aska Light	2012		

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	5	Bullet KL-01-BG 3676	2013	Chainsaw	2014		
				Aska light	2009		
				Out board engine	2014		
				Hydraulic power Generator	2014		

Fire Force	Fire Force Amenity details(Year Wise)				No. of Stations	Address of Stations
	Details of other vehicles	Received year	Details of other equipments			Station Officer, Fire & Rescue Station, Sulthanbathery
Sulthan Bathery	1.	Jeep KL-01-Z-4122	2004		2	
	2.	Water Lorry KL-01-AG-1995	2005			
	3.	MTU KL-01AY-485	2010			
	4.	Ambulance KL-01 BB-4937	2011			

### ANNEXURE 8

#### COMMUNICATION

Sl.No.	BSNL offices in the district	Telephone Exchange	
		Address	Phone Number
1	O/o DET/CSC	BSNL Bhavan, Pinangode Road	04936-203000/
		Kalpetta	203300
2	O/o DET(BSS)	BSNL Staff Quarters, Pinangode Rd, Kalpetta	04936-205666 /205620
3	Kalpetta Division, Wayanad	Kalpetta Exchange	04936-205560
4		Mandad Exchange	04936-231000
5		Padijarethara Exchange	04936-273799

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

6		Thariode Exchange	04936-250438	
7		Pallikkunnu Exchange	04936-286500	
8		Cheriyamkolly Exchange	04936-230500	
9		Meppadi Exchange	04936-283000	
10		Chooralmala Exchange	04936-236200	
11		Rippon Exchange	04936-280200	
12		Manivayal Exchange	04936-201500	
13		Vythiri Exchange	04936-255398	
14		Chundale Exchange	04936-201000	
15		Mananthavady Exchange	04935-240500	
16		Kartikulam Exchange	04935-250499	
17		Payyampally Exchange	04935-215500	
18		Valad Exchange	04935-266100	
19		Thirunelli Exchange	04935-210298	
20		Periya Exchange	04935-260100	
21		Thalappuzha Exchange	04935-256298	
22		Panamaram Exchange	04935-220200	
23			Korome Exchange	04935-235500
24			Karakkamala Exchange	04935-227050
25			Vellamunda Exchange	04935-230500
1		Sulthan Bathery Division, Wayanad	Ambalavayal Exchange	04936-260200
2			Chulliyode Exchange	04936-266300
3			Vaduvanchal Exchange	04936-217400
4			Sulthan Bathery Exchange	04936-222250
5			Cheeral Exchange	04936-262200
6	Noolpuzha Exchange		04936-270200	
7	Vakery Exchange		04936-222250	
8	Pulpally Exchange		04936-240250	
9	Padichira Exchange		04936-234250	
10	Irulam Exchange		04936-238250	
11	Meenangadi Exchange		04936-247250	
12	Kenichira Exchange		04395-211500	
13	Varadoor Exchange		04936-247250	

Radio/ TV Stations	Frequency Range	Address	Contact Numbers
Akasavani (FM) Relay Center	100.1 MHz	Assistant Engineer, Akasavani & Doordarshan Relay Center, Kalpetta North.P.O, Wayanad-673122	04936-202800, 206002 9447023718
Doordarshan Relay Center	Band-III Channel 7(-)		

ANNEXURE 9

**GROUND WATER DEPARTMENT**

Name of Structure	Numbers	Address/Location
<b>Hands Pumps</b>	Nil	
<b>Ponds</b>	Nil	
<b>Reservoirs</b>	Nil	
<b>Bore Wells</b>	Nil	
<b>Open Wells With Separate Pump Houses</b>	4nos.	Kuttikaitha, Ambalavayl in Ambalavayal Panchayath
		Iliyambam, Pakkom, Pulpally in Pulpally Panchayath
		Seethamount, Mullankolly in Mullankolly Panchayath
		Cuundale in Vythiri Panchayath
<b>Well Cum Pump Houses</b>	29nos.	Pandikadavu, Edavaka in Edavaka Panchayath
		Koodalkadavu, Payyampally in Mananthavady Panchayath
		Choottakadavu, Mananthavady in Mananthavady Panchayath
		Valliyoorkavu Mananthavady in Mananthavady Panchayath
		Pottankolly, Mananthavady in Mananthavady Panchayath
		Kappikalam, Thalapuzha, in Thavinhal Panchayath
		Palvelichem, Thirunelly in Thirunelly Panchayath
		Thirunelly Near Ashramam School in Thirunelly Panchayath
		Vilambukandom, Panamaram in Panamaram Panchayath
		Kottoor in Ambalavayal Panchayath
		Kuttirayinpalam in Meenangadi Panchayath
		Muthanga in Noolpuzha Panchayath
		Mathoorvayal in Panamaram Panchayath
		Marakkadavu in Mullankolly Panchayath
		Sasimala in Mullankolly Panchayath
		Irumpupalam in Kalpetta Municipality
Kokkuzhi in Vengappalli Panchayath		
Edatharakadavu in Vengappally Panchayath		
Gandhi Nagar in Vengappally Panchayath		

**DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015**

		Neerattadi in Panamaram Panchayath
		Venniyode in Kottathara Panchayath
		Malakkad in Muttil Panchayath
		Mandad in Muttil Panchayath
		Kumblad in Muttil Panchayath
		Vattachola in Mooppainad Panchayath
		Kariyampadi in Muttil Panchayath
		Vythiri Near Govt.Hospital in Vythiri Panchayath
		Idiyamvayal in Pozhuthana Panchayath
		Near Mullankandy Bridge in Padinjarethara Panchayath
<b>Weirs</b>	6nos.	Muthanga in Noolpuzha Panchayath
		Kottoor in Ambalavayal Panchayath
		Nalukettomchola in Kalpetta Municipality
		Goodalai in Kalpetta Municipality
		Kappikalam, Thalapuzha in Thavinhal Panchayath
		Muttilmala in Muttilpanchayath
<b>Water Tanks</b>	57nos.	Pulinhal in Vellamunda Panchayath
		Ohsr at Edavaka Near Chruuch in Edavaka Panchayath
		GI Sump at Payyampally in Manantahvady Panchayath
		Glsr at Payyampally in Mananthavady Panchayath
		Glsr Near Govt.Collage Mananthavady in Edavaka Panchayath
		Glsr at Tharuvnal in Vellamunda Panchayath
		Ohsr Near Govt. Hospital Mananthavady
		Glsr at Valliyoorkavu
		Glsr at Pottankolly
		Glsr at Venmani
		Glsump at Kannothmala in Thavinhal Panchayath
		Glsr at Puthiyedom in Thavinhal Panchayath
		Glsr at Padamala
		Glsump at Kartikulam
		Glsr at Anappara
		Glsr at Panavally
		Glsr Near Thirunelly Temple
Glsr at Pulinhal in Vellamunda Panchayath		
Glsr at Vlambukandom On The Hillock Of Kurumbalacotta		

		Glsr at Thomattuchal
		Glsr at Ambalavayal Near Govt.Hospital
		Glsr Near Bishop House Meenangadi
		Glsr at Nirapath in Noolpuzha Panchayth
		Glsr at Vadachira in Noolpuzha Panchayath
		Ohsr Near St.Mary's Collage, S.Bathery
		Gl Sump at Cheengode in Poothadi Panchayath
		Ohsr at Kenichira Near Church in Poothadi Panchayath
		Glsr at athrattukunnu in Poothadi Panchayath
		Glsr at Irulam Near Temple in Poothadi Panchayath
		Glsr at Vattathani in Poothady Panchayth
		Glsump at Kabanigiri in Mullankolly Panchayath
		Glsr at Padichira Near Chruuch
		Ohsr at Pulpally Near Seetha Devi Temple
		Glsr at Pakkom in Pulpally Panchayath
		Glsr at Seethamount in Mullankolly Panchayth
		Glsr at Sasimala in Mullankolly Panchayath
		Glsr at Emily in Kalpetta Municipality
		Ohsr Near Govt. Guest House.Kalpetta
		Glsr at Pinangode Mukku in Vengappally Panchayath
		Glsr at Gandhinagar Colony in Vengappally Panchayath
		Glsr at Kamblakkad
		Ohsr at Venniyode in Kottathara Panchayath
		Glsr at Karinhakunnu in Kottathara Panchayath
		Glsr at Swargamkunnu,Vazhavatta in Muttil Panchayath
		Glsr at Karinkannikunnu in Muttil Panchayath
		Glsr Near Muttil Panchayath Office in Muttil Panchayath
		Gl Sump at Muttimala in Muttil Panchayath
		Glsr at Kumblad in Muttil Panchayath
		Glsr Near Glps Kariyampadi in Muttil Panchayath
		Ohsr at Vattachola in Mooppainadu Panchayath
		Ohsr Near Govt.Hospital,Vythiri



## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

		Ohsr at Chundale in Vythiri Panchayath
		Glsr at 6th Mile in Pozhuthana Panchayath
		Glksr at Melmuri in Pozhuthana Panchayath
		Glksr at 4 Cent Colony Idiyamvayal in Pozhuthana Panchayath
		Glsr 2 Nos at Kappikalam in Padinharethara Panchayath
		Glsump at Manjura in Thariyode Panchayath
		Glsr at Manjura in Thariyode Panchayath
<b>Treatment Plants</b>	8nos.	Nirapath in Noolpuzha Panchayath
		Thomattuchal in Ambalavayal Panchayath
		athirattukunnu in Poothadi Panchayath
		Kabanigiri in Mullankolly Panchayath
		Vilambukandom in Pananamaram Panchayath
		Payyampally in Mananathavady Panchayath
		Padamala in Thirunelly Panchayath
Kamblakkadin Kaniyambetta Panchayath		

### ANNEXURE 10

#### RELIEF CAMPS

Taluk: Mananthavady (1-13)		
Sl.No.	Name of Villages	Name of Institutions being used as rescue shelter/ to be used as rescue shelters
1	Panamaram	1. Building under Rev:dept,
		2. Govt:H.S Panamaram
		3. Govt: L.P .S Panamaram
		4. Govt: H.S Neervanam
		5. L.P S. Kuppathode
2	Mananthavadi	6. Rescue Shelter, Near Thaluk office
		7. Govt:VHSS Mananthavady
		8. Illathuvayal mill
		9. Nehru Memmorial UPS
3	Edavaka	10. Pazhasi RajaA.U.P School New mans college.
4	Thavinhal	11. G.L.P.S.Kaithakolly
		12. Govt: U.P.S. Thapalluzha
		13. Govt:L.P.S. Poroor
		14. St: Thomas U.P.S. Vimalanagar
5	Anchukunnu	15. Gandhi Memmorial U.P.S. Anchukunnu.
		16. DPEP School, Palukunnu.
		17. Govt:L.P.S, Vilambukandam

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

6	Kanhirangad	18. Govt:L.P.S, Kandolivayal, Puthussery
		19. F.V.Rescue Center , Kanhirangad
7	Thondernadu	20. A.U.P.S,Kunhome Mattileyam
		21. Govt:L.P.S, Korome
8	Valad	22. Jaihind L.P.S, Valad
9	Cherukattoor	23. Community hall, World vision,Parakuni
10	Porunannoor	24. Kallamveetti, anganwadi
		25. Cherukara A.L.P .S.
		26. Govt:L.P.S Palayana
		27. Kommayad St:Sebastian U.P.S
11	Nalloornad	28. Ambekar School, Kunna mangalam
		29. Govt: College, Thonnichal
		30. Sacred Heart H.S, Dwaraka.
		31.Sarvodya U.P.S, Kammana
		32. Sunday School, Kammana.
12	Payyampally	33. Nehru Memorial U.P.S, Valliyoorkkavu.
		34. Govt: H.S, Arattuthara.
		35. St:Catherins H.S.SPpayyampally.
13	Peria	36. Govt: U.P.S, Peria
<b>Taluk: Vythiri (14-30)</b>		
14	Vellamunda	37. Govt: U.P.S, Varambetta
		38. Govt: U.P.S, Vellamunda
		39. Govt: L.P.S, Mothakkara.
		40. Govt: L.P.S, Kandathuvayal.
		41. Govt: L.P.S, Pulinchal
15	Chundale	42. HIM U.P.S. Vythiri
		43. R.C.L.P.S, Chundale.
		44. R.C. H.S, Chundale.
		45. Govt: H.S, Vythiri.
16	Vellarimala	46. Rehabilitation centre, Chooralmala.
		47. Govt: L.P.S, Puthumala.
		48. Govt: H.S, Vellarmala.
		49. Govt: L.P.S, Mundakkai.
17	Moopainad	50. Panchayat L.P.S, Chithragiri
		51. RE L.P.S,Rippon.
18	Kottathara	52. SALP School, Venniyode.
		53. Govt: U.P.S, Kottathara.
		54. Apasara Mahilasamajam Hall
		55. Govt: H.S, Karimkutty
		56. A U.P.S, Valal.
19	Pozhuthana	57. Govt: L.P.S, Sugandagiri
20	Tharitode	58. SALP School. Thariyode.

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		59. Panchayat Community hall,
21	Kavumannam	60. Govt: L.P.S, Kappuvayal
22	Thrikkaipetta	61. Hari sree Vayanassala Building, Puthoorvayal.
		62. Anaswara, Grandassala Building.
23	Achooranam	63. Govt: U.P.S, Pinangode.
		64. Govt: H.S, Achoor.
		65. Govt: L.P.S, Valiyapara
24	Kalpetta	66. Govt: V.H.S.S, Mundry
		67. N.S.S, H.S.S, Kalpetta
		68. Govt: L.P.S, Kalpetta
		69. Azhar L.P S, Rattakolly.
		70. M.U.P.S, Perumthatta
		71. S.K.M.J.HSS, Kalpetta.
25	Kaniyambetta	72. Govt: U.P.S, Kaniyambetta.
		73.U.P.S, Varadoor
26	Kottappady	74. Meppadi H.S and L.P.S
		75. St. Joseph U.P.S, Meppadi.
		76. Kottanad U.P.S
27	Muttill(North)	77. St.George A.L.P.S, Kolavayal.
28	Vengappady	78. Govt: H.S.S, Mundry.
		79. Ammasahayam U.P.S, Thekkumthara.
		80. St. Antony's U.P.S, Madakunnu.
29	Kuppadithara	81. S.A.L.P.S, Kottukulam.
		82. Community hall, Kottukulam.
		83. Moon Light L.P.S, Mundakutty.
		84. Govt: U.P.S, Kurumbala
30	Padinharathara	85. Govt: H.S.S, Padinharathara.
		86. Evangelikkal L.P.S, Panthipoyil, Varambetta.
		87. K.S.E.B recreation Club hall.
		88. Gramapanchayat Community hall, Anappara.
		89. Govt: L.P.S, Manjoora
<b>Taluk: Sulthan Bathery (31-last)</b>		
31	Padichira	90. Govt: U.P.S, Marakkadavu.
		91. Govt: U.P.S, Kolavally.
32	Poothadi	92. Poothadi Panchayat kudumbasree hall.
		93. Govt: U.P.S, Poothadi
33	Krishnagiri	94. Govt: H.S.S, Meenangadi
34	S.Bathery	95. Panchyat Community hall.
		96. Govt: L.P.S, Poomala.
		97. Govt: Sarnajana H.S.S, S.Bathery.
		98. Govt: U.P.S, Pazhupathur.
		99. Assumption H.S.

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

35	Noolppuzha	100. Govt: H.S, Kalloor.
		101. Govt: L.P.S, Kallumukku.
		102. Sreejaya Aided L.P.S, Nenmenikkunnu.
		103. Aided L.P.S, Naikatty.
		104. Govt: L.P.S, Muthanga.
36	Kidanganadu	105. Govt: L.P.S, Chettiyalathoor
		106. Govt: H.S, Chenad.
37	Kuppadi	107. Noolppuzha Panchayat L.P.S, Vadakkand.
		108. Govt: U.P.S, Kuppadi.
		109. Govt: Technical H.S
		110. Govt: H.S, Moolankavu.
		111. Govt: H.S, Kalloor.
38	Purakkadi	112. Govt: U.P.S, Mathamangalam
		113. Govt: L.P.S, Meenangadi.
		114. Grama Panchayat Community hall, Meenangadi.
39	Thomattuchal	115. Govt: L.P.S, Andoor.
		116. Govt: V.H.S.S, Vaduvanchal.
		117. Govt: L.P.S, Cheengavallam.
		118. Govt: L.P.S, Munnoor.
		119. Govt: L.P.S, Nellachal.
40	Nadavayal	120. St.Thomas L.P.S, Nadavayal.
		121. Anganawadi, Pathiriyambam.
41	Cheeral	122. Govt: U.P.S, Kallinkara, Kozhuvanna.
42	Ambalavayal	123. Panchayat Community hall, Ambalavayal.
43	Nenmeni	124. Govt: H.S, Ambalavayal.
		125. Govt: L.P.S, Malika.
		126. Govt: H.S, Anappara.
		127. Govt: H.S, Perikalloor.
44	Pulppally	128. St. Marry HSS, Mullankolly.
		129. Jayasree HSS, Kalluvayal.
		130. Vijaya HSS, Pulppally.
		131. Govt: H.S, Vakery.
45	Irulam	132. Govt: H.S, Irulam.
		133. A.U.P.S, Valavayal.

DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

ANNEXURE 11

NATURAL HAZARD ZONATION MAP – WAYANAD DISTRICT

TALUK	VILLAGE	LANDSLIDE	COASTAL EROSION	FLOODS	LIGHTNING	EARTH QUAKE (Magnitude)
VYTHIRI	Vellarimala	High (Mundakay, PuttuMala, VellariMala, Forest) Low (HopeEstate)			Low	
	Muppainad	High (Forest)		Banks of CholadiPuzha & Broad flat bottom valleys (Paddy fields) Puttadi,Mudakkara,	Low	
	Thrikkaippetta	High (KalluMala,Forest) Low (KalluMala)		Broad flat bottom valleys (Paddy fields) Parur,Thrikaippetta,	Low	
	Kottappady	High (Chenbrapeak Estate, Kuttimund Estate, Forest) Low (Elambalri,Anapara)		Banks of KotturAr	Low	
	Kunnathidavaka	High (EagleEstate,Lakkidi)			Low	
	Chundel	Low (ChundelEstate)			Low	
	Pozhuthana	High (Vannatipara,Forest) Low (KurichiarMala, AthurEstate)			Low	
	Achooranam	Low (AthurEstate)		Banks of PozhuthanaPuzha & Broad flat bottom valleys (Paddy fields) Muthirapara	Low	
	Kalpetta	High (MuttelMala,Forest) Low (E.Kalpetta)		Banks of BinhiPuzha & Broad flat bottom valleys (Paddy fields) Kozhatatta, Mundari	Low	

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	<b>Muttil South</b>	Low (RocksideEstate)		Banks of KagaPuzha & Broad flat bottom valleys (Paddy fields) Parakkal,Mundat, Erinneri,Kalluradi	Low	
	<b>Muttil North</b>			Broad flat bottom valleys (Paddy fields) Pariyaram, Pullimala, Mutil, Vellithode, Karaladi,Mmutimukku	Low	
	<b>Kaniyambetta</b>			Banks of ChundalPuzha & Broad flat bottom valleys (Paddy fields) Ambalachal, Padikkara, Changadakunnu,Triniyambetta,Panginichikallur	Low	
	<b>Kottathara</b>	Low (kurumbaalaMala)		Banks of VenniyottuPuzha,CaradPuzha & Broad flat bottom valleys (Paddy fields) Vandiyampetta,Anerivayal, Chalavayal	Low	
	<b>Vengappalli</b>			Banks of VenniyottuPuzha & Broad flat bottom valleys (Paddy fields) Kindiyur, Ambalapadi	Low	
	<b>Kavummandam</b>			Banks of VenniyottuPuzha & Broad flat bottom valleys (Paddy fields) kanicheri	Low	
	<b>Tariyod</b>	High (Forest) Low (Tariyod)		Banks of VenniyottuPuzha	Low	
	<b>Padinharathara</b>	High (Forest) Low (Padinjarethara,Varampetta)		Banks of Karaman thodu & Broad flat bottom valleys (Paddy fields) Puthiyenirath, W.kattathara	Low	
	<b>Kuppadithara</b>			Banks of VenniyottuPuzha & Karaman thodu & Broad flat bottom valleys (Paddy fields) Kuppadithara,Kurumbala	Low	
<b>MANANTHAVADY</b>	<b>Vellamunda</b>	High (Forest) Low (Pulinjal, Mangalasseri, Vellamunda)		Banks of Karaman thodu & Broad flat bottom valleys (Paddy fields)Pulinjal,Mathakara	Low	
	<b>Kanjirangad</b>	High (Forest) Low (S.Makkiad,S.Tandar)		Banks of MananthavadiRiver	Low	
	<b>Thondernad</b>	High (Forest) Low Thondar			Low	
	<b>Periya</b>	High (Forest) Low (W.Periya,Paramatma)		Banks of PeriyaPuzha	Low	
	<b>Valad</b>			Banks of MananthavadiRiver	Low	
	<b>Edavaka</b>			Banks of MananthavadiRiver & Broad flat bottom valleys (Paddy fields) Achampitika,Kallodi,Elamanna	Low	

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

<b>SULTHANBATHERY</b>	<b>Porunnanore</b>		Banks of Karaman thodu & Broad flat bottom valleys (Paddy fields) Changadam, Karingari, Kotugalli	Low	
	<b>Anchukunnu</b>	Low (KurumbilaMala)	Banks of PanamaramPuzha & Broad flat bottom valleys (Paddy fields) Kalutingal, Ullisseri	Low	
	<b>Panamaram</b>		Banks of PanamaramPuzha	Low	
	<b>Cherukattur</b>		Banks of PanamaramPuzha	Low	
	<b>Nalloornad</b>		Banks of MananthavadiRiver	Low	
	<b>Payyampalli</b>	Low (kannivayal)	Banks of MananthavadiRiver, KabaniRiver & Broad flat bottom valleys (Paddy fields)Pudukode, Manalvayal, Nelliya	Low	
	<b>Thrissileri</b>	High (Mullamkolli, Forest) Low (Trisileri, Muriode, Forest)	Banks of KabaniRiver, BavaliPuzha & Broad flat bottom valleys (Paddy fields) Trissileri, Kakkavayal, Onivayal	Low	
	<b>Mananthavady</b>	High (Forest) Low (Cherakkana Estate, Jessie Estate, Kaipat, Forest)	Banks of MananthavadiRiver & Broad flat bottom valleys (Paddy fields) Kurikkalat, Mangaleri, Kaniyaram, Mandakamula	Low	
	<b>Thavinhal</b>	High (Makki, Forest) Low (FringferdEstate, Tavinnal Estate)	Banks of MananthavadiRiver & Broad flat bottom valleys (Paddy fields) Tindummal, Idikkara, Kazhukottur, Teythat	Low	
	<b>Thirunelli</b>	High (Tirunelli, Manikolli, Forest) Low (Vaduvakkulam, Meladi, Akkolli Estate, Vellaravayal)	Banks of BavaliPuzha	Low	
<b>Pulpalli</b>		Banks of KabaniRiver & Kadamari thodu	Low		
<b>Padichira</b>	Low Sasimala	Banks of KabaniRiver & MUDalli thodu	Low		
<b>Irulam</b>	Low (Matamangalam)	Banks of Narasi Puzha	Low		
<b>Nadavayal</b>	Low (Nekkuppa)	Banks of Narasi Puzha & Broad flat bottom valleys (Paddy fields) Nelliyaambam, Karadam, Chittalur, Nadavayal	Low		
<b>Poothadi</b>		Banks of Narasi Puzha, Chundal Puzha	Low		
<b>Purakkodi</b>		Banks of Chundal Puzha & KanaPuzha	Low		
<b>Krishnagiri</b>		Banks of Padiri Puzha & Kana Puzha	Low		

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<b>Sulthan Bathery</b>	Low (Kattayad, SulthanBathery)		Broad flat bottom valleys (Paddy fields) Pazhupattur, Mavadi, Kallivayal	Low	>3
<b>Ambalavayal</b>	Low (Mattappara)		Broad flat bottom valleys (Paddy fields) Ambalavayal, Vellada	Low	
<b>Thomattuchal</b>			Broad flat bottom valleys (Paddy fields) Nallarchal, Pangaleri, Odavayal	Low	
<b>Nenmeni</b>	Low (Kuppamudi Estate, TodaMala)		Banks of CholadiPuzha, NulPuzha & Broad flat bottom valleys (Paddy fields) Palakunni, Malankara,	Low	
<b>Cheeral</b>			Banks of NulPuzha	Low	
<b>Nulpuzha</b>			Banks of NulPuzha, TudukuttiAr	Low	
<b>Kuppady</b>			Banks of NulPuzha & TudukuttiAr	Low	
<b>Kidanganad</b>	Low (Forest)		Banks of Manjar Thodu	Low	



**ANNEXURE 12**

**DATABASE OF OCCURRENCE OF LIGHTNING IN THE DISTRICT**

Sl.No	Village	Taluk	Year
1	Nadavayal	S.Battery	1988
2	Mulankavu, Vattuvadi.	S.Battery	1989
3	Edavaga ,Kalpatta	Vythiri	1994
4	Kalpetta,Kullivayil.	Vythiri	1994
5	Kalpatta(vellamunda )	Mananthavady	1995
6	Vellamunda,Kalpatta.	Mananthavady	1995
7	Ambukuthi	S.Battery	1996
8	Purakkadi	S.Battery	1996
9	Tavinhal	Mananthavady	1997
10	Nallurnadu	Mananthavady	1998
11	Thalipuzha	Mananthavady	1998
12	Irulam	S Battery	1998
13	Porunnanore	Mananthavady	2000
14	Porunnanore	Mananthavady	2000
15	Thrissillery	Mananthavady	2000
16	Vellarimala	Vythiri	2001
17	Mananthavadi.	Mananthavady	2002
18	Mananthavady	Mananthavady	2002
19	Pulpally	S.Battery	2002

**ANNEXURE 13**

**LIGHTNING FREQUENCY IN THE DISTRICT**

Sl.No	Village	Taluk	Frequency
1	Thirunalli	Mananthavady	0
2	Thavinhal	Mananthavady	1
3	Mannanthavady	Mananthavady	1
4	Thrissileri	Mananthavady	1
5	Padichira	Sulthan Bathery	0
6	Pulpalli	Sulthan Bathery	1
7	Periya	Mananthavady	0
8	Payyampalli	Mananthavady	0
9	Valad	Mananthavady	0
10	Thondernad	Mananthavady	0
11	Kidangad	Sulthan Bathery	0
12	Kanjirangad	Mananthavady	0
13	Nallurnad	Mananthavady	1
14	Edavaka	Mananthavady	1
15	Cherukattur	Mananthavady	1
16	Panamaram	Mananthavady	0

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17	Irulam	Sulthan Bathery	1
18	Nadavayal	Sulthan Bathery	1
19	Anchukunnu	Mananthavady	0
20	Porunnannur	Mananthavady	1
21	Vellamunda	Mananthavady	1
22	Kaniyambetta	Vythiri	0
23	Poothadi	Sulthan Bathery	0
24	Kuppadithara	Vythiri	0
25	Purakkadi	Sulthan Bathery	1
26	Nulpuzha	Sulthan Bathery	0
27	Kuppady	Sulthan Bathery	1
28	Padinharathara	Vythiri	0
29	Krishnagiri	Sulthan Bathery	0
30	Kottathara	Vythiri	0
31	Sulthan Bathery	Sulthan Bathery	0
32	Muttill North	Vythiri	0
33	Kavummandam	Vythiri	0
34	Tariyod	Vythiri	0
35	Vengappalli	Vythiri	0
36	Nenmeri	Sulthan Bathery	1
37	Ambalavayal	Sulthan Bathery	1
38	Muttill South	Vythiri	0
39	Kalpetta	Vythiri	0
40	Cheeral	Sulthan Bathery	0
41	Achooranam	Vythiri	0
42	Thrikkaipetta	Vythiri	0
43	Thomattuchal	Sulthan Bathery	0
44	Pozhuthana	Vythiri	0
45	Muppainad	Vythiri	0
46	Kottappady	Vythiri	0
47	Chundel	Vythiri	0
48	Kurrathidavaka	Vythiri	0
49	Vellarimala	Vythiri	0

### ANNEXURE 14

#### Drought Prone Areas

SL.No	Village	Taluk	Class
1	Thirunalli	Mananthavady	Slight Drought
2	Thavinhal	Mananthavady	Slight Drought
3	Mannanthavady	Mananthavady	Moderate Drought
4	Thrissileri	Mananthavady	Moderate Drought
5	Padichira	Sulthan Bathery	Moderate Drought
6	Pulpalli	Sulthan Bathery	Moderate Drought
7	Periya	Mananthavady	Slight Drought
8	Payyampalli	Mananthavady	Moderate Drought

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9	Valad	Mananthavady	Slight Drought
10	Thondernad	Mananthavady	Slight Drought
11	Kidangad	Sulthan Bathery	Moderate Drought
12	Kanjirangad	Mananthavady	Slight Drought
13	Nallurnad	Mananthavady	Moderate Drought
14	Edavaka	Mananthavady	Slight Drought
15	Cherukattur	Mananthavady	Moderate Drought
16	Panamaram	Mananthavady	Moderate Drought
17	Irulam	Sulthan Bathery	Moderate Drought
18	Nadavayal	Sulthan Bathery	Slight Drought
19	Anchukunnu	Mananthavady	Moderate Drought
20	Porunnannur	Mananthavady	Moderate Drought
21	Vellamunda	Mananthavady	Slight Drought
22	Kaniyambetta	Vythiri	Moderate Drought
23	Poothadi	Sulthan Bathery	Slight Drought
24	Kuppadithara	Vythiri	Slight Drought
25	Purakkadi	Sulthan Bathery	Moderate Drought
26	Nulpuzha	Sulthan Bathery	Severe Drought
27	Kuppady	Sulthan Bathery	Severe Drought
28	Padinharathara	Vythiri	Moderate Drought
29	Krishnagiri	Sulthan Bathery	Moderate Drought
30	Kottathara	Vythiri	Slight Drought
31	Sulthan Bathery	Sulthan Bathery	Severe Drought
32	Muttill North	Vythiri	Slight Drought
33	Kavummandam	Vythiri	Slight Drought
34	Tariyod	Vythiri	Slight Drought
35	Vengappalli	Vythiri	Slight Drought
36	Nenmeri	Sulthan Bathery	Severe Drought
37	Ambalavayal	Sulthan Bathery	Severe Drought
38	Muttill South	Vythiri	Moderate Drought
39	Kalpetta	Vythiri	Slight Drought
40	Cheeral	Sulthan Bathery	Severe Drought
41	Achooranam	Vythiri	No Drought
42	Thrikkaipetta	Vythiri	Slight Drought
43	Thomattuchal	Sulthan Bathery	Moderate Drought
44	Pozhuthana	Vythiri	No Drought
45	Muppainad	Vythiri	Moderate Drought
46	Kottappady	Vythiri	Slight Drought
47	Chundel	Vythiri	No Drought
48	Kurrathidavaka	Vythiri	Slight Drought
49	Vellarimala	Vythiri	Slight Drought

ANNEXURE 15**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.
23. Ensure disposal of dead bodies and carcasses through Police, Medical, NGOs, Public Health and Forest Department.
24. Ensure general cleaning of the entire city area through water and sanitation, Municipal Corporation, Public Health Department, etc.
25. Ensure collation of expense accounts for sanctions and audits.
26. Activation of help lines through police and health departments and district public relations office.
27. Ensure preparation of rehabilitation plan for displaced population through Town and Country Planning, ULBs/PRIs, etc.
28. Ensure 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, PRIs and ULBs meeting; Prepare a list of NGOs, and PRIs with their functional specialization and Geographical coverage	
9	Check the availability of food Grains in PDSs shops and other stockings and distributors in the district	
10	Prepare a list of Relief Items for distribution in the height of local habits,cutoms etc.	
11	Determine quantity, quality of relief items as per minimum standards, and expenditure to be incurred on it.	
12	Prepare a transport and alternate transport plan for evacuation and distribution of relief.	
13	Prepare a media plan for dissemination of information to the people of the district; local newspapers, radio, TV and cable, etc.	
14	Ensure appropriate stocking of relief material received from outside.	

## 1.2. Standard Operating Procedures for the Police

In-charge Officer: 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. Within the affected sub-division, all available personnel will be made available to the Deputy Commissioner. If more personnel are required, the out of station officers or those on leave may be recalled.
5. All district level officials of the Police Department must be asked to report to the Deputy Commissioner.
6. Constitute ‘Search & Rescue’ Teams from the Police force, and arrange training for these units. There should be at least one Search and Rescue Team for every district. However some of the district may have more than one ‘Search and Rescue Team’ depending upon the area and magnitude of disaster.
7. Establish coordination with the State Armed Police and Defence and Home Guards.
8. Check the wireless communication network, and secure additional wireless sets for deployment during a disaster.

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

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

**Checklist:**

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



### 1.3. Standard Operating Procedures for Irrigation Department

In-charge Officer: Superintendent Engineer, Irrigation

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

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

### **Field Office Priorities:**

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

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

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

**Checklist**

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

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

In-charge officer: Chief Medical Officer

1. Prepare Hazard Vulnerability and Risk Map of the District.
2. Prepare a health contingency plan for the district. It should include a list of government hospitals, primary health centers and sub-centers, and medical personnel. The contingency plan should also include the details of hospitals and medical practitioners in the private sector.

3. All personnel required for management of disaster should work under the overall supervision and guidance of District magistrate/Additional. District magistrate
4. Based on HVR analyses, obtain a list of Response Base from the District magistrate's office, and assign the medical personnel to each of these Response Bases to the extent possible. Keep essential medicines and first aid facilities with each Response Base.
5. Constitute mobile response units consisting of a doctor, health workers and ANMs, and prepare a deployment plan. Each mobile health unit will cover at least one Response Base in a day.
6. Review and update precautionary measures and procedures,
7. Review with staff, the precautions that have been taken to protect equipments.
8. Determine type of injuries/illness expected and drugs and other medical items required and accordingly ensure that extra supplies of medical items are obtained quickly.
9. Provide information to all health staff about the disaster, likely damages and effects and information about way to protect life, equipment and property.
10. Non ambulatory patients should be relocated to the safest areas within the hospital. The safest rooms are likely to be:
  - On ground floor.
  - Rooms in the Centre of the building away from windows.
  - Rooms with concrete ceilings.
  - Dressing pads should be assembled sterilized.
11. A large enough number should be sterilized to last for four to five days.
12. Secure medical supplies in adequate quantity for dealing with these situations, which may include:
  - Oral Rehydration Solutions
  - Chlorine Tablets
  - Bleaching Powder
  - Anti diarrheal and Anti emetic medicines
  - Intravenous fluids
  - Suture materials
  - Surgical Dressings
  - Splints
  - Plaster Rolls
  - Disposable Needles and Syringes
  - Local Antiseptics
13. All valuable instruments such as surgical tools, ophthalmoscopes, portable sterilizers, ECG machine, dental equipments, Ultra sound machine, analyzer, invertors, computer hardware etc should be packed in protective coverings and stored in rooms considered to be the most damage proof.
14. Protect all immovable equipment such as X-ray machines, Sterilizer, Dental chair by covering them with tarpaulins or polythene.

15. Ensure adequate supplies of blood in the district through District Red cross society and other prominent agencies.
16. Keeps one operating facility in each Response Base in readiness. Maintain all the equipment necessary for operations.
17. Prepare a maternity facility for pregnant women in every Response Base/ Advance Medical Post.
18. Check stocks of equipments and drugs which are likely to be most needed in disaster management. These can be categorized generally as:
  19. Drugs used in treatment of wounds and fractures such as tetanus toxoid analgesics, antibiotics, Dressing material, and Splint.
  20. Drugs used for treatment of diaorrhoea, water borne diseases influenza malaria, infective hepatitis.
  21. Drugs required treating snake bite and fighting infection.
  22. Drugs needed for detoxication including breathing equipments.
  23. Intravenous fluids.
  24. Check the emergency electrical generator to ensure that it is operational and that buffer stock of fuel exists. If an emergency generator is not available at the hospital, arrange for one.
  25. Request central warehouse immediately to dispatch supplies likely to be needed in hospitals, on an emergency priority basis.
  26. Fill hospital water storage tanks, if no storage tanks exists; water for drinking should be drawn in clean containers and protected.
  27. Prepare an area of the hospital for receiving casualties.
  28. Develop emergency admission procedures.
  29. Orient field staff with standards of services, procedures including tagging;
  30. Hospital administration should:
    31. Establish work schedules to ensure that adequate staff is available for in patients needs.
    32. Organize in house emergency medical teams to ensure that adequate staff is available at all times to handle emergency causalities.
    33. Set up teams of doctors, nurses and paramedical staff as per IRS.

### **Field Office Priorities:**

- Transport will be arranged for transfer of seriously injured/ill patients from villages and peripheral hospital to general hospitals. If roads are blocked helicopter should arranged by Nodal Officer.
- Establish health facilities and treatment centres at disaster affected site.
- Procedures should be clarified between Health Services of Govt., private and other established at transit camps, relief camps and affected site/villages. PHCs CHCs , Civil Hospital , Private Hospitals Blood Banks

- Maintain check posts and surveillance at each railway stations, Bus Stands depots and all entry and exit points of the affected area, especially during the threat or existence of an epidemic.
- An injury and disease monitoring system should be developed to ensure that a full picture of health risk is maintained. Monitoring should be carried out for potable water and quality of food and disposal of waste in transit and relief camps, feeding centres and affected villages.
- Plan for emergency accommodations for auxiliary staff from outside the area.
- Information formats and monitoring checklist must be used for programme monitoring and development and for reporting to emergency operation centre at state level. This is in addition to existing reporting system in the department
- Establishment of a “Health Helpline” with means of communication to assist in providing an organized source of information. The hospital is responsible for keeping the community informed of its potential and limitations in disaster situations, list of admitted patients and dead persons etc.
- The local police, rescue teams and ambulance teams should be aware of the resources of each hospital.

**Checklist:**

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

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

In-charge Officer: Principal Agriculture officer

1. Prepare HRV Analysis of the district.
2. Develop Contingency Action Plan based on HRV analysis.
3. Within the affected sub-division/Tehsil all available personnel will be made available to the District Magistrate/Deputy Commissioner. If more personnel are required then, out of

station officer or those on leave may be recalled.

4. All personnel required for Disaster/Flood Management should work under the overall supervision and guidance of the District Magistrate.
5. Establish communications with District Magistrate/Deputy Commissioner, District Control Room and Agriculture colleges, seed banks, nurseries (private and public) within the division.
6. Review and update precautionary measures and procedures.
7. Check available stocks of equipments and materials which are likely to be most needed during and after flood/disaster.
8. Stock agricultural equipments which may be required during and after flood.
9. Determine what damage, pests or disease may be expected, and what drugs and other insecticide items will be required, in addition to requirements of setting up extension teams for crop protection, and accordingly ensure that extra supplies and materials, be obtained quickly.
10. All valuable equipments and instruments should be packed in protective coverings and stored in room the most damage-proof.
11. All electrical equipments should be unplugged when flood/disaster warning is received.
12. Extension Officers should be unplugged when flood/disaster warning is received.
13. Extension Officers should be assisted to
  - a. Establish work schedules to ensure that adequate are available.
  - b. Set up teams of extension personnel and assistants for visiting disaster/flood affected sites.
14. Assess the extent of damage to soil, crop, plantation, micro-irrigation systems and storage facilities and the requirements to salvage or replantation.
15. Provision of agricultural services should be coordinated with irrigation department, DRDO, District EOC, SITE OPERATIONS CENTRES.
16. Ensure that certified seeds of required varieties are available in adequate quantities. The Agriculture Department should work with National Seeds Corporation and other suppliers and ensure availability at their depots or have agents appointed for the same.
17. Print and widely distribute the list of points where certified seeds are available along with names of varieties and rates. Notices may be affixed at public places such as bus stands, on buses themselves, PHCs, Block headquarters, Tehsils, etc.
18. Suggest variety of seeds and cropping pattern, which can reduce losses and reduce the risks to farmers.
  - Develop a pest and disease monitoring system so that timely steps can be taken to reduce damage to crops.
  - Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
  - Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.

19. Organize transport, storage and distribution of the above with adequate record keeping procedures.
20. Ensure that adequate conditions through cleaning operations are maintained to avoid water logging and salinity.
21. A pests and disease monitoring system should be developed to ensure that a full picture or risks is maintained.
22. Plan for emergency accommodations for agriculture staff from outside the area.
23. Establishment of a public information centre with a means of communication, to assist in providing an organized source of information. The department is responsible for keeping the community informed of its potential and limitations in flood situation.
24. Assist farmers to re-establish their contacts with agriculture produce market and ensure that appropriate prices be offered to them.

**Checklist:**

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

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

In-Charge Officer: District Animal Husbandry Officer

Phone: 0484 - 2360648

1. Prepare HRV Analysis of Animal Husbandry Department of the District.
2. Based on HRV Analysis, prepare Contingency Action Plan of the District.
3. All personnel required for Disaster/Flood Management should work under supervision and guidelines of District Magistrate/ADM.
4. Within the affected district and Sub-division, all available personnel will be made available .If more personnel are required, then out of station officers or those on leave may be recalled.
5. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
6. Establish radio communications with



- District Control Room
  - Veterinary aid centres and hospitals (including private practitioners) within the division.
7. Prepare a list of water borne diseases that are preventable by vaccination. Publicize the information about common diseases afflicting livestock and the precautions that need to be taken.
  8. Assist the Revenue Department in preparing plans for cattle camps and cattle feeding centers.
  9. Stock emergency medical equipments which may be required during and post disaster
  10. Determine what injuries/ illnesses may be expected, and what drugs and other medical items will be required, in addition to requirements of setting up cattle camps, and accordingly ensure that extra supplies of medical items and materials be obtained quickly.
  11. Provide information to all staff of veterinary hospitals and centres about the floods, likely damages and effects, and information about ways to protect life, equipments and property.
  12. Surgical packs should be assembled and sterilized.
  13. Enough stock of surgical packs should be sterilized to last for four to five days.
  14. The sterilized surgical packs must be stored in protective cabinets to ensure that they do not get wet. Covering the stock with polythene is recommended as an added safety measure.
  15. All valuable equipments and instruments should be packed in protective coverings and stored in room the most damage-proof.
  16. Organize vaccination campaigns in disaster prone villages before, during and after the disaster.
  17. Prepare kits for veterinary diseases, which could be provided to veterinary doctors at the block level and officers at the village level. Kits can also be provided to the private veterinary doctors.
  18. Check the emergency electrical generator, to ensure that it is operational, and that a buffer stock of fuel exists. If an emergency generator is not available at the hospital, arrange for one on loan.
  19. Check stocks of equipments and drugs which are likely to be most needed during and after disaster.
  20. Request from central warehouses, on an emergency priority basis, that those supplies likely to be needed be dispatched to the hospital immediately.
  21. Fill department vehicles with fuel and park them in a protected area.
  22. Prepare an area of the hospital for receiving large number of livestock.
  23. Develop emergency admission procedures (with adequate record keeping).
  24. Cattle camps and hospitals administrators should.
  25. Establish work schedules to ensure that adequate staff are available.

26. Set up teams of veterinary doctors, and assistants for visiting flood affected sites.
27. Organize transfer of seriously injured livestock from villages to veterinary aid centres wherever possible.
28. The provision of medical services should be coordinated by the District Animal Husbandry Officer with District Control Room, and cattle camps.
29. Establish cattle camps and additional veterinary aid centres at affected sites and designate an Officer In-charge for the camp.
30. Estimate the requirement of water, fodder and animal feed, for cattle camps and organize the same.
31. Ensure that adequate sanitary conditions through cleaning operations are maintained in order to avoid outbreak of any epidemic.
32. An injury and disease monitoring system should be developed, to ensure that a full picture of risk is maintained.
33. Standard for Cattle Camps
  - The minimum number of cattle in the camp should be about 100 and the maximum 500.
  - The cattle camps should be located at suitable sites bearing in mind, that adequate supply of water and shade are most essential for the well being of the cattle.
  - Cattle sheds constructed should not exceed 20 sq. feet per animal.

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

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

**Preparedness Checklist for Animal Husbandry**

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

### 1.7. Standard Operating Procedure for Water Authority

In-Charge Officer : KWA, Contct Number

1. Conduct HRV analysis of the department.
2. Based on HRV analysis, prepared Contingency Action Plan for the Department.
3. All personnel required for disaster management should work under the overall supervision and guidance of District Magistrate/ Deputy Commissioner of the district.
4. Review and update precautionary measures and procedures and review with staff the precautions that have been taken to protect equipment.
5. Within the affected tehsil, all available personnel will be made available to the concerned officer. If more personnel are required then out of station official or those on leave may be recalled.
6. Inform people to store an emergency supply of drinking water.
7. A standby water supply should be available in the event of damage, saline intrusion or other pollution of the regular supply.
8. Establish procedures for the emergency distribution of water if existing supply is disrupted.
9. Make provisions to acquire tankers and establish other temporary means of distributing water on an emergency basis.
10. Prepare plans for water distribution to all transit and relief camps, affected villages and cattle camps and ensure proper execution of these plans.
11. A minimum level of stock should be maintained for emergencies, and should include extra lengths of pipe connections, joints, hydrants and bleaching powder. Adequate tools should be on hand to carry out emergency repairs.
12. Protect pumps and motors with adequate protection (if the building is not flood-proof) to prevent damage.
13. Make sure auxiliary generators and standby engines are in good working order.
14. Establish emergency work gangs for immediate during post-disaster repairs.
15. Investigation of alternate of water and its supply.
16. After any repair on the distribution system, the required main should be flushed and disinfected with a chlorine solution of 50 mg/litre for a contact period of 24 hours, after which the main is emptied and flushed again with potable water.
17. If the demand for water is urgent, or the repaired main cannot be isolated, the concentration of the disinfecting solution may be increased to 100 mg/litre and the contact period reduced to 1 hour.
18. At the end of disinfection operations, but before the main is put back into services, samples should be taken for bacteriological analysis and determination of chlorine residue.
19. Protect pump stations from water logging.
20. Repair sewage lines where damage is detected.
21. Repair water pipelines wherever damaged.

22. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
23. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
24. When a water treatment plant, pumping station, of distribution system is so badly damaged that operation cannot be restored for some time, other methods described in the following paragraphs must be used.
25. Water from these sources, with adequate chlorination as necessary, can be connected to a distribution system or hauled to the points of consumption.
26. Identify unacceptable water sources and take necessary precautions to ensure that no water is accessed from such sources, either by sealing such arrangements or by posting the department guards.
27. Ensure that potable water supply is restored as per the standards and procedures laid down in “Standards for Potable Water”.
28. Plan for emergency accommodations for staff from outside the area.
29. To take special measures and schemes for areas with Drinking Water Supply.

**Checklist:**

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

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

In-Charge Officer : Divisional Forest officer

1. Conduct HRV analysis of Forest of the district.
2. Based on HRV analysis, prepared Contingency Action Plan for the Department.
3. All personnel required for disaster management should work under the overall supervision and guidance of Deputy Commissioner.
4. All district level officials of the department would be asked to report to the Deputy Commissioner when disaster occurs.
5. Open the forest land for free grazing when flood waters enter villages, and there is not enough fodder available.

6. Allow the transportation of fodder from forest areas, when the fodder is not freely available.
7. Provide wooden poles and bamboo for relief and reconstruction at subsidized rate. Provide these materials to all the technical departments, which need them.
8. Ensure Plantation to maximum possible extent.
9. Ensure supply of wood for disposal of dead bodies.
10. Recall important functionaries from leave; communicate to the staff to man their places of duties like the ward and divisional offices and respective departments.
11. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.

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

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

1. Conduct HRV analysis of PWD of the district.
2. Based on HRV analysis, prepared Contingency Action Plan for the Department.
3. All personnel required for disaster management should work under the overall supervision and guidance of District Magistrate/Additional District Magistrate..
4. Within the affected Sub-division, all available personnel will be made available to the District Magistrate/Deputy Commissioner. If more personnel are required then out of station officers or those on leave may be recalled.
5. Establish radio communications with State Emergency Operations Centre, Divisional Commissioner, District Control Room and departmental offices within the division.
6. The Officer-in-Charge-PW (B&R)” will be responsible for mobilizing staff and volunteers to clear the roads in his section.
7. The Office Incharge PW (B&R) should be familiar with pre-disaster precautions and during and post-disaster procedures for road clearing and for defining safe evacuation routes where necessary.
8. All officers (technical officers) should be notified and should meet the staff to review emergency procedures.
9. Review and update precautionary measures and procedures, and review with staff the precautions that have been taken to protect equipment.
10. Vehicles should be inspected, fuel tanks filled and batteries and electrical wiring covered as necessary.
11. Extra transport vehicles should be dispatched from headquarters and stationed at safe strategic spots along routes likely to be affected.
12. Heavy equipments, such as front-end loaders, should be moved to areas likely to be damaged and secured in a safe place.
13. Clean the area beneath bridges regularly for smooth flow of water excess.
14. Maintain all the highways and access roads, which are critical from the point of view of

- supplying relief.
15. Inspect all buildings and structures of the state government (including hospital buildings.) by a senior engineer and identify structures which are endangered by the impending disaster.
  16. Emergency tools kits should be assembled for each division, and should include:
    - Crosscut saws
    - Axes
    - Power chain saw with extra fuel, oil
    - Sharpening files
    - Chains and tightening wrenches
    - Pulley block with chain and rope
  17. The designation of routes strategic to evacuation and relief should be identified and marked, in close coordination with police and District Control Room.
  18. Establish a priority listing of roads which will be opened first. Among the most important are the roads to hospitals and main trunk routes.
  19. Give priority attention to urgent repair works that need to be undertaken in disaster affected areas.
  20. Work under construction should be secured with ropes, sandbags and covered with tarpaulins if necessary.
  21. Emergency inspection by mechanical engineer of all plant and equipment in the district workshops.
  22. If people are evacuating an area, the evacuation routes should be checked and people assisted.
  23. Construct/ reinforce the connecting roads from villages to roads, canals and Bundhs and raise their level so that people can access the high ground.
  24. Laying down layout of roads, gardens and other response facilities from the view point of prevention of congestions, quicker response and facilities alternative routing.
  25. Inspection of old buildings and suggesting retrofitting of weak buildings/ demolition of dangerous structures and evacuation of population.
  26. Carry out route opening by removing debris on the road.
  27. Identify locations for setting up transit and relief camps, feeding centres and quantity of construction materials and inform DCR accordingly.
  28. All work teams should be issued two-way communication Link.
  29. Provide a work team carrying emergency tool kits, depending on the nature and extent of the disaster, essential equipments such as.
    - Towing vehicles
    - Earth moving equipments
    - Cranes etc.
  30. Each unit should mobilize a farm tractor with chain, and a buffer stock of fuel.
  31. Adequate road signs should be installed to guide and assist the drivers.

32. Begin clearing roads. Assemble casual labourers to work with experienced staff and divide them into work gangs.
33. Coordinate with Building and Construction Department of Zila Parishad/ADC Office.
34. Mobilize community assistance for road clearing by contacting community organizations.
35. Undertake clearing of ditches, grass cutting, burning or removal of debris, and the cutting of dangerous trees along the roadside in the affected area through maintenance engineer's staff.
36. Undertake repair of all paved and unpaved road surfaces including edge metalling, pothole patching and any failure of surface, foundations in the affected areas by maintenance engineer's staff and keep monitoring their conditions.
37. Undertake construction of temporary roads to serve as access to temporary transit and relief camps, and medical facilities for flood victims.
38. As per the decisions of the District Control Room, undertake construction of temporary structures required, for organizing relief work and construction of relief camps, feeding centres, medical facilities, cattle camps and SITE OPERATIONS CENTRES.
39. An up-to-date report of all damage and repairs should be kept in the district office report book and communicate the same to the District Control Room.
40. If possible, a review of the extent of damage (by helicopter) should be arranged for the field Officer-in-Charge, in order to dispatch most efficiently road clearing crews, and determine the equipments needed.

### **1.10. Standard Operating Procedures for KSEB**

In-charge officer: Chief Engineer (Distribution)

1. Conduct HRV analysis for the department of the district.
2. Based on HRV analysis, prepare Contingency Action Plan of department of Power Supply.
3. All personnel required for disaster management with work under the overall supervision and guidance of responsible officer .
4. Within the affected sub-division all available personal will be made available as per IRS plan. If more personnel are required, then out of station officers and by those on leave may be recalled.
5. Establish radio communications with State Emergency Operation Centre, District Control Room and your departmental offices within /Division.
6. All district level officials of the department would be asked to report District Magistrate.
7. Ensure that the Power Supply department to make alternate arrangements of emergency supply for the following offices from time of receipt of districts:
  - Hospitals
  - Public Health Departments
  - Deputy Commissioner Office,

- District EOC, Sub-Divisional EOC, site Operation Centres.
  - Police Stations
  - Telecommunications buildings
  - Irrigation Office
  - Any other place if required.
8. Check emergency tool kits, assembling any additional equipment needed.
  9. After receiving alert warning, immediately undertake following inspection:
    - High tension lines
    - Towers
    - Sub-stations
    - Transformers
    - Insulators
    - Poles and
    - Other equipments
  10. Review the total extent of the damage to power supply installations.
  11. Instruct staff to disconnect the main electricity supply for the affected area.
  12. Protect Power Stations from disaster. Raise the height of compound walls. Install pump sets for draining water in case of Flood/ Cyclone/ Tsunami, etc.
  13. Provide information to the people about the state of power supply. It is one of the most important sources of information.
  14. Call for emergency meeting to take stock of the situation. Develop a strategy and objectives.
  15. Hire casual labourers on an emergency basis for clearing of damaged poles and salvage of conductors and insulators.
  16. Begin repair/reconstruction
  17. Assist hospitals in establishing an emergency supply by assembling generators and other emergency equipments if necessary.
  18. Establish temporary electric supplies to other key public facilities, public water system etc. to support emergency relief.
  19. Establish temporary electric supplies to transit camps feeding centres, relief camps and Site Operation Centre, District EOC and on access roads to the same.
  20. Compile an itemized assessment of damage, from reports made by various electrical receiving centres and sub-centres.
  21. Report all activities to the head office and district EOC.
  22. Plan for emergency accommodations for staff from outside the area.



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

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

#### **Activities**

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

ANNEXURE 16

**EMERGENCY SUPPORT FUNCTIONS**

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

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

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

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

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

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

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

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

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



## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

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

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

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

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

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

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

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

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 2015

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

## DISTRICT DISASTER MANAGEMENT PLAN – WAYANAD 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 – WAYANAD 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 1<sup>st</sup> paper above.

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

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

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

Name & Designation of the officer

Copy to:

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



**GOVERNMENT OF KERALA**

*Abstract*

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

**DISASTER MANAGEMENT (REVENUE-K) DEPARTMENT**

**G.O(Rt)No.3104/2016/DMD**

**Dated, Thiruvananthapuram, 30<sup>th</sup> July, 2016**

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

**ORDER**

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

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

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  
Stock File/Office Copy

Copy to:-

PS to Minister (Revenue & <sup>Housing</sup> ~~Coir~~)  
PS to Principal Secretary (Revenue & DM)  
The Information Officer, Web & New Media, I&PRD

Forwarded/By Order,

  
Section Officer