



DISASTER MANAGEMENT CENTRE

Drought & Forest Fire Contingency Plan - 2021



**Compiled By:
District Disaster Management Unit
District Secretariat
Batticaloa**

Batticaloa District -Drought Contingency Plan-2021

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-Updated on 09.03.2021-

01. Introduction about drought in Batticaloa district

Drought is a slow onset disaster, In Batticaloa district out of Fourteen (14) Divisional secretariat areas 10 DS divisions are prone to drought. Around 32,000 families 100,000 individual will be affected by drought or dry weather condition every year in Batticaloa district,

Drought or dry weather condition causes many problems, mainly lack of drinking water for public as well as animals, crops failure, livelihood problems and etcetera. Main causes of drought are low rainfall, deforestation, improper land use and unplanned cultivation. Normally drought experiences during May to October every year in Batticaloa district

Batticaloa district is an agricultural district, and also out of total paddy production in Sri Lanka, substantial of paddy produced in Batticaloa district, therefore due to drought situation in Batticaloa district affect the country economy as well.

Therefore drought is the most significant hazard in Batticaloa district. Furthermore in order to mitigate the drought situation in Batticaloa district, short term as well as long term drought mitigations activities essential too.

02. History of Drought in Batticaloa District (Drinking Water Distribution)

Year -2014		Year -2015		Year -2016		Year -2017		Year -2018		Year -2019		Year -2020	
Family	Person	Family	Person	Family	Person	Family	Person	Family	Person	Family	Person	Family	Person
26,108	89,313	21,724	54,186	17,934	62,614	21,023	71,364	32,409	105,676	25,005	82,570	21726	68864

Drought Affected GN details in 2020

S.N	D.S.Division	No of GN	No	G.N.Division	Affected	
					Family	Person
1	Koralaipattu North	15	1	Vaddavan	269	890
			2	Kayankerny	210	713
			3	Ammanthanveli	360	813
			4	Kaddumurivu	286	703
			5	Puchchakerny	365	1213
			6	Uriyankattu	200	640
			7	Palchenai	418	1003
			8	Mankerny Central	75	219
			9	Panichchenkerny	590	1550
			10	Vaharai central	135	432
			11	Kirimichchai	160	456
			12	Punanai East	333	825
			13	Mankerny South	116	357
			14	Vaharai North	20	45
			15	Kathiraveli	170	540
			Sub Total		3707	10399
2	Kotalaipattu West	1	1	Paper Town	236	831
			Sub Total		236	831
3	Koralaipattu Central	2	1	Thiyawattawan	375	1316
			2	Punanai East	220	775
			Sub Total		595	2091
4	Manmunai West	12	1	Panchenai	223	779
			2	Iluppadichchenai	87	285
			3	Koththujapulai	65	185
			4	Kurinchamunai	18	61
			5	Nediyamadu	130	425
			6	Pavatkidichchenai	140	425
			7	Unnichchai	383	1387
			8	Kanthinagar	233	767
			9	Ajiththiyamalai	280	1074
			10	Kanchirankudah	415	1345
			11	Aayiththiyamalai North	570	1535
			12	Vavunathhevu	150	515

			Sub Total		2694	8783
5	Poratheevupattu	24	1	Palayadiveddai	236	702
			2	Paddapuram	331	1154
			3	Vivegananthapuram	194	607
			4	Kanthipuram	252	840
			5	Thikodai	326	942
			6	Thumpenkerny Y.A.S	273	836
			7	Veranchenai	232	718
			8	Mavatkudah	45	135
			9	Nellikkadu	254	865
			10	Punnakulam	190	651
			11	Ranamadu	220	678
			12	Sinnawaththai	400	1415
			13	Malyarkattu	175	620
			14	Vammiyadiyoothtu	564	1795
			15	Kalumanthavelly	247	898
			16	Kannapuram	172	642
			17	Anaikaddiyavelly	45	137
			18	Vilaththoddam	200	690
			19	Vellavelly	386	1286
			20	Mandoor South	247	845
			21	Kakkachchivaddai	352	1277
			22	Palachchulai	305	993
			23	Thumpankerny	183	603
			24	Sankapuram	172	642
			Sub Total		6001	19971
6	Eravur Pattu	11	1	Mangalagama	150	425
			2	Karadiyanaru	170	533
			3	Periyapullumalai	199	597
			4	Rugam	295	910
			5	Koppavelly	310	876
			6	Koduvamadu	473	1555
			7	Kittul	298	929
			8	Pankundahveli	206	612
			9	Veppavettuvan	281	874
			10	Marappalam	113	349
			11	Eralakulam	182	641
			Sub Total		2677	8301
7	Manmuani South West	16	1	Thanthamalai	218	705
			2	Kalchenai	166	374
			3	Kachchkkody	81	263
			4	Mavadimunmary	296	969
			5	Panichchayadymunmary	108	371
			6	Ampilanthurai North	207	622
			7	Ampilanthurai West	153	482

			8	Muthalaikudah West	213	744	
			9	Paddippalai	193	594	
			10	Kadukkamunai	21	64	
			11	Arasdaiththeevu North	273	869	
			12	Kokkaddichchola South	445	1364	
			13	Muthalaikudah	239	733	
			14	Mahiladiththeevu	146	512	
			15	Ampilanthurai	284	961	
			16	Arasaditheevu	300	886	
			Sub Total			3343	10513
8	Koralaipattu South	9	1	Perillaweli	219	712	
			2	Muruththanai	268	885	
			3	Poolaakkadu	358	1154	
			4	Kudumpimalai	199	649	
			5	Vakeneri	425	1450	
			6	Punanai West	190	675	
			7	Kiran West	92	285	
			8	Vadamunai	125	396	
			9	Uththuchchenai	170	491	
			Sub Total			2046	6697
9	Koralaipattu	1	1	Nasivantheevu	427	1278	
			Sub Total			427	1278
	9	91	Grand Total			21726	68864

03. Drought Relief Allocation for Drinking Water Supply – 2015

District	DS Division	Type of Relief Item	Money Allocation	Distributed Money	No. of Distributed Families
Batticaloa	Koralai Pattu North	Drinking Water Supply	122,902.00	122,902.00	2,016
	Koralai Pattu Central	Drinking Water Supply	42,465.00	42,465.00	302
	Koralai Pattu West	Drinking Water Supply	38,750.00	38,750.00	295
	Koralai Pattu South	Drinking Water Supply	127,380.00	127,380.00	616
	Koralai Pattu	Drinking Water Supply	34,030.00	34,030.00	375
	Koralai Pattu North	Drinking Water Supply	659,582.63	659,582.63	4,318
	Manmunai West	Drinking water	489,965.00	489,965.00	4,234
	Porativu Pattu	Drinking water	750,220.00	750,220.00	3,636
	Manmunai South West- Paddippali	Drinking water	124,692.60	124,692.60	1,542
Total			2,389,987.23	2,389,987.23	17,334

Drought Relief Allocation for Drinking Water Supply – 2016

District	DS Division	Type of Relief Item	Money Allocation	Distributed Money	No. of Distributed Families
Batticaloa	Koralai Pattu North	Drinking Water supply	223,619.00	223,554.00	1,860
	Koralai Pattu West	Drinking Water supply	18,867.55	18,867.55	262
	Koralai Pattu Central	Drinking Water supply	109,300.00	109,000.00	741
	Koralai Pattu South	Drinking Water supply	303,049.79	303,049.79	1,070
	Eravur Pattu	Drinking Water supply	864,909.60	864,886.30	1,995
	Manmunai West	Drinking Water supply	561,156.00	554,156.00	3,478
	Manmunai South & Eruvil Pattu	Drinking Water supply	5,300.00	5,300.00	1,820
	Porativu Pattu	Drinking Water supply	498,600.00	496,085.00	4,747
	Manmunai South West- Paddippali	Drinking Water supply	376,583.40	375,870.00	4,126
	District Secretariat	Drinking Water supply	273,000.00	182,862.50	-
Total			3,234,385.34	3,133,631.14	20,099

Drought Relief Allocation for Drinking water Supply & Dry ration – 2017

District	DS Division	Type of Relief Item	Money Allocation	Distributed Money	No. of Distributed Families
Batticaloa	Koralai Pattu North	Drinking water & Dry ration	19,027,939.00	19,016,907.00	5,435
	Koralai Pattu West	Drinking water & Dry ration	2,587,463.90	2,587,463.90	265
	Koralai Pattu Central	Drinking water & Dry ration	5,508,614.00	5,508,584.00	596
	Koralai Pattu South	Drinking water & Dry ration	17,073,000.00	16,182,357.81	2,821
	Koralai Pattu	Drinking water & Dry ration	21,975.00	21,975.00	375
	Eravur Pattu	Drinking water & Dry ration	10,997,262.00	8,771,583.85	1,092
	Manmunai West	Drinking water & Dry ration	15,567,660.00	15,229,230.91	4,910
	Manmunai North	Cooked meals	7,600.60	7,600.00	10
	Manmunai South & Eruvil Pattu	Drinking water & Dry ration	3,851,500.00	3,850,800.00	479
	Porativu Pattu	Drinking water & Dry ration	51,098,000.00	48,736,658.00	5,620
	Manmunai South West- Paddippali	Drinking water & Dry ration	20,567,500.00	15,562,500.00	2,536
	District Secretariat	Admin cost	123,194.10	120,976.30	–
Total			146,431,708.60	135,596,636.77	24,139

Drought Relief Allocation for Drinking Water Supply- 2018

District	DS Division	Type of Relief Item	Money Allocation	Distributed Money	No. of Distributed Families
Batticaloa	Koralai Pattu North	Drinking water Supply	461,193.00	442,977.62	6,649
	Koralai Pattu West	Drinking water Supply	48,512.00	48,512.00	106
	Koralai Pattu Central	Drinking water Supply	457,300.00	347,824.75	583
	Koralai Pattu South	Drinking water supply	174,712.30	174,711.80	2,874
	Eravur Pattu	Drinking water Supply	1,162,406.00	1,139,222.00	3,268
	Manmunai West	Dry ration	755,079.53	732,152.55	4,479
	Porathtivupatru	Drinking water supply	912,010.10	871,882.10	11,624
	Manmunai South West- Paddippali	Drinking water supply	394,459.66	394,459.66	2,826
	District Secretariat	Admin	150,000.00	142,601.05	–
Total			4,515,672.59	4,294,343.53	25,104

Drought Relief Allocation for Drinking Water Supply- 2020

District	DS Division	Type of Relief Item	Money Allocation	Distributed Money	No. of Distributed Families
Batticaloa	Koralai Pattu North	Drinking water Supply	961,548.00	484,360.00	3707
	Koralai Pattu West	Drinking water Supply	149,000.00	57,928.00	236
	Koralai Pattu Central	Drinking water Supply	500,384.00	391,664.00	595
	Koralai Pattu South	Drinking water supply	550,000.00	549,797.00	2046
	Eravur Pattu	Drinking water Supply	2,370,996.90	2,295,692.53	2677
	Manmunai West	Drinking water Supply	1,406,005.24	1,322,089.20	2694
	Porathivupatru	Drinking water supply	2,477,888.76	2,273,726.44	6001
	Manmunai South West	Drinking water supply	1,210,805.00	890,843.00	3343
	Koralai pattu	Drinking water supply	39,500.00	35,972.00	42
	District Secretariat	Admin	36,000.00	25,744.75	-
Total			9,702,127.90	8,327,817.32	21,726

04. Analysis of Drinking Water Distribution Pattern for Drought-Batticaloa District 2020

#	Affected DS Division	No of Affected GN Division	Affected		Available Water Tank	Working Bowsers Number	Drinking Water Distribution Details (Bowser) and Expected days	Needed		Details of Water Distribution		
			Families	People				Tank (1000L)	Lorry Bowser	Per day(L)	Turn (per day)	Per week(L)
1	Manmunai South West	16	3,951	12,267	DS -44 PS – 65 1000L -109	DS – 04 PS – 02	DS (12000L-1,4000L-3),PS (4000L-1,8000L-1) Started on 17.04.2019 180 days	17	-	72,000	2	432,000 (6days)
2	Porathivupattu	24	5,992	19,552	DS-42 PS – 39 1000L-81	DS – 03 PS – 02	DS (12000L-1,4000L-2),PS (8000L-1, , 4000L-1) Started on 17.04.2019 210 days	20	01	140,000	5	840,000 (6days)
3	Eravurpattu	11	3,920	13,595	DS -66 PS – 42 1000L-108	DS – 04 PS – 01	DS (13500L-1,4000L-3 ,PS (5000L-1) Started on 24.04.2019 180 days	20	01	69,000	3	483,000 (7days)
4	Koralaipattu South	11	2,566	8,721	DS – 30 PS – 09 1000L-39	DS – 02	DS (4000L-2. KPW-1,KP-1) Started on 24.04.2019 90 days	20	-	8,000	1	56,000 (7days)
5	Koralaipattu North	12	2,953	9,402	DS – 51 PS – 68 1000L-119	DS-02 PS-03	DS(15000L-1, 4000L-1,). PS(3000L -3) Started on 03.05.2019 180 days	25	01	136,000	5	952,000 (7days)
6	Koralaipattu West	1	125	432	DS -11 PS – 01 1000L-12	DS -01 PS – 01	DS (4000L-1),PS (12000L-1.) Started on 09.05.2019 84 days	08	01	50,000	4	350,000 (7days)
7	Manmunai West	12	4,183	14,334	DS -31 PS-75 1000L-106	DS -03 MC-01	DS (4000L-3, MC-(12000L-1) Started on 13.05.2019 180 days	17	01	54,000	3	324,000 (6days)
8	Koralaipattu Central	2	548	1,916	DS – 25 PS – 15 1000L-40	PS-01 DS-01	DS(4000L-1),PS –KPW,KPN(6000L-1) Started on 17.05.2019 120 days	15	-	10,000	1	70,000 (7days)
9	Manmunai South &EP	06	359	1,098	DS-09 PS-06 1000L-15	PS-01	PS(4000L-1) Started on 26.06.2019 120 days	08	-	8,000	2	40,000 (5days)
10	Koralaipattu	01	408	1,253	DS-06 1000L-06	PS-01	PS(4000L-1)) Started on 24.07.2019 61 days	-	-	4,000	1	16,000 (4days)
Total		96	25,005	82,570	635	33	Lorry bowser- 09, Tractor bowser-24	150	05	551,000	-	3,563,000

Drinking Water Distributing details –Batticaloa District

S.No	DS Division	Water Distributing Local Authorities	Current Water Taking Point	Future Water Taking Point	Remarks
01	KPN	1.KPN PS	1.KPN Pradesiya sabah land Tube Well 2.Alankulam Community Water Supply Unit 3. Koralaipattu Pradesiya sabah Land Tube Well	1.Mankerny GN – Dug well 2.Kayankerny GN - Dug well 3.Verugal PS –Water Filter Station (Trinco District) 4.Kattumurivu GN – Dug well	If we establish water filter system at Verugal River, we can take enough water.
02	KP	KP PS	1.Koralaipattu Pradesiya sabah Dug Well	1.Koravely Water plant(Mathuru Oya River)-12km	
03	KPS	1.KPW PS	1.Oddamavady Pradesiya Sabah Land Dug Well 2.KPW Pradesiya Sabah Land Water Board Line	1.Welikanda Pradesiya Sabah NWSDP water line – 25km	
		2.KP PS	1.Koravely Water plant (Mathuru Oya River)-12km	1.Korakalimadu(Tube well)- 8km	
04	KPW	KPW PS	1.Oddamavady Pradesiya Sabah Land Dug Well 2.KPW Pradesiya Sabah Land Water Board Line	1.Meeravodai Library Well – 1.5km	
05	MSW	MSW PS	1.Manalpiddy junction –Water board line – 3km	1.Kokkaddicholai Common well – 500m 2.Mavady Munmaari common well – 4km	
06	MW	MW PS	1.Water Board Vavunatheevu – 1.5km	1.Navatkaadu Common well – 4km	
07	PP	PP PS	1.Water Board Line Thikkodai – 6km 2.Mandoor Water Board Line – 8km 3.Vellavely Pradesiya Sabah Water Board Line	1.Thikkodai Common well -6km 2.Thambalawatta common well – 10km 3.Surawanaidiyoottu Common well -8km 4.Palukamam Sub office Common well PS -8km	
08	MS & EP	MS & EP PS	1.MS & EP Pradesiya sabah Tube well	Kaluwanchikudy NWSDP Line – 3km	
09	KPC	1.KPN PS 2.KPW PS	1.Alankulam Community Water Supply Unit 2.Oddamavady Pradesiya Sabah Land Dug Well	1.Welikanda PS NWSDP water line – 25km	
10	EP	EP PS	1.Vathaarumoolai Water Supply Unit	1.Kithul Public well 2.Earalakulam Public well	

05. Drought Affected Details

i. Paddy Affected –Batticaloa District – 2020

Maha Season

S.No	Agrarian Service Center	Affected Farmers	Affected Paddy (Acre)
1	Kokkaddycholai	03	10
2	Mandapathady	10	47
3	Karadiyanaru	03	10
4	Vaharai	87	146.75
	Total	103	213.75

Yala Season

S.No	Agrarian Service Center	Affected Farmers	Affected Paddy (Acre)
1	Kaluwanchikudy	21	79.5
2	Kokkaddycholai	35	98
3	Arayampathy	1	4.25
4	Ayiththiyamalai	13	23.5
	Total	70	205.25

Source: Department of Agrarian Development, Batticaloa

06. Available Resources of Drought Management in Batticaloa District

i. Divisional Secretariats Drought Managing Resources

S.No	Affected DS Division	Available Water Tank (1000L)			Working Bowsers Number		
		Total	DS	Local Authority(PS/UC/MC)	Total	DS	Local Authority (PS/UC/ MC)
1	Manmunai South West	119	54	65	06	04	02
2	Porathivupattu	96	57	39	05	03	02
3	Earavur Pattu	118	76	42	05	04	01
4	Koralaipattu South	49	40	09	02	02	-
5	Korailaipattu North	134	66	68	05	02	03
6	Koralaipattu West	17	16	01	02	01	01
7	Manmunai West	118	43	75	04	03	01
8	Koralai Pattu Central	45	30	15	02	01	01
9	Manmunai South & EP	21	15	06	01	-	01
10	Koralaipattu	15	15	-	01	-	01
11	Manmunai North	05	02	03	-	-	-
12	Eravur Town	02	02	-	-	-	-
13	Kattankudy	02	02	-	-	-	-
14	Manmunaipattu	09	09	-	-	-	-
Total		750	427	323	33	20	13

II. Drought Managing Resources Distributed through NDRSC and DMC

S.NO	DS DIVISION	Details of water tanks		Water Pumps	Tractor & Bowsers	Lorry Bowsers
		Capacity of water Tank	No of water Tanks			
1	Koralaipattu North	1000L	48	2	1	1
2	Koralaipattu Centre	1000L	25	5	1	-
3	Koralaipattu West	1000L	11	2	2	-
4	Koralaipattu South	1000L	30	3	1	-
5	Koralaipattu	1000L	10	-	2	-
6	Eravurpattu	1000L	61	5	3	1
7	Manmunai West	1000L	28	5	3	-
8	Manmunaipattu	1000L	7	-	-	-
9	Manmunai South & Eruvil Pattu	1000L	9	-	-	-
10	Manmunai South West	1000L	44	6	2	1
11	Porathivupattu	1000L	42	6	2	1
12	MC/Batticaloa	1000L	3	-	-	1
	BALANCE		5	-	-	-
	TOTAL		323	34	17	5

III. Other Organizations Drought Managing Resources

S.No	Name of Local Authorities		Number of available Water Bowser		Number of available Water Tanks
			No. of Lorry Bowser & capacity	No. of Tractor Bowser & capacity	
01	PS MW	Water Bowser-01 Tractor Bowser -04	12000L-1	4000L-4	1000L-70
02	PS MSW	Water Bowser-02 Tractor Bowser -03	10,000L-1 8,000L-1	4000L-3	1000L-76
03	PS PP	Water Bowser-02 Tractor Bowser -03	12,000L-1 8,000L-1	4000L-3	1000L-78
04	PS EP	Tractor Bowser -01	5,000L-1		
05	UC-Eravur	Water Bowser-03			
06	PS-KPW	Water Bowser Trailer-06			
07	PS-KPN	Water Bowser-01, Bowser Trailer-02			
08	PS-MS&EP	Tractor mounted bowser-01			
09	UC KKY	Lorry Bowser - 1(6000L)	6,000L-1		1000L-2
10	MC Batticaloa	Tractor Bowser - 1(4000L), Lorry Bowser 2(15000L,6000L) Water Tank -3(1000L)			
11	PS -MP	Lorry Bowser - 1(6000L) Water Tank 10 (1000L)			
12	PS- KP	Tractor Bowser 2(4000L) Water Tank 5(1000L)			

07. Needs of Resources Drought Management - 2020

NO	Divisional Secretariat	Resources
		Bowser Needs
1	Porathivupattu	1
2	Manmunai West	1
3	Eravurpattu	1
4	Koralaipattu North	1
5	Koralaipattu West	1
TOTAL		5

Needed Summary

S/No	Needed Items	Capacity	Qty
01	Water Pump	2 Horse power	10
02	Water Cans	25L	500
03	Water Bowser	10,000L	05

08) Water Levels of Major Reservoirs /Tanks in Batticaloa district

Date of Reporting:-.....

S.No	Major Tanks					Medium Tanks				
	DS Division	Tank Name	Total Capacity (Acre feet	Current water Level Capacity (Acre feet	Water sources availability % against total users	DS Division	Tank Name	Total Capacity (Acre feet	Current water Level Capacity (Acre feet	Water sources availability % against total users
1	Manmunai West	unnichchai	55020			Koralaipattu North	Anaisuddakaddu Kulam	1465		
2	Eravur pattu	Rugam	18600				Mathurankerny Kulam	2150		
3	Koralaipattu Centre	Vahanery	13500				Kirimichchai odai Kulam	1855		
4	Porathivupattu	Navakiri	53000			Koralaipattu South	Tharavai Kulam	580		
5	Koralaipattu North	Kaddumurivu	4703				Meiyankal Kulam	3898		
6	Eravurpattu	Kithulwewa	4205			Manmunai South West	Puluganawa Tank	7125		
7	Eravurpattu	Weligahakandiya	1483		Kadukkamunai Tank		6483			
					Sevagapattu Tank		525			
					Mahiladithivu Tank		340			
8	Koralaipattu South	Wadamunai	4504			Manmunai West	Adachchakal Kulam	1224		
9	Porathivupattu	Thumpankerny	1194		Porathivupattu		Palugamam Periya Kulam	510		
						Porathivu Periya Kulam	580			
					Manmunai South & EP	Mahiloor Periya Kulam	600			

09. Drought Reporting Format

Situation Report on Drought Affect - Batticaloa District-2019

Date:-.....

Time:.....

S.No	DS Division	GN Division	Drought Affected		Drinking Water Distribution		Crop Damage (Acres)		Water Distribution Details			Allocation Needed(RS)
			Family	Person	Family	Person	Paddy	Other Crops	Capacity & Bowser	Issuing Start	Organization	

Development Officer (NDRSC)
.....

Divisional Secretary
.....

Summary Situation Report on Drought Affect -Batticaloa District-2021

Date :

Time:

S.No	DS Division	Drought Affected			Drinking Water Distribution		Dry Ration Needed		Crop Damage (Acres)	
		No of GN	Family	Person	Family	Person	Family	Person	Paddy	Other Crops
1										
2										
3										
4										

Development Officer (NDRSC)

Divisional Secretary

.....

.....

Date:

10. Drought Mitigation in Batticaloa District

(Dug well, tube well, Rain water Harvester, Small Construction)

I-Short term activities

II-Long term activities

Dug well, Tube well construction at suitable places (not salty type or hardness water source soil) in drought prone areas in Batticaloa district is a common solution for drinking water, as well as Rainwater harvester is another best practice in all drought prone area.

Furthermore small tanks construction, rehabilitate the abundant tanks & canals also permanent solution to retaining the water in soil layer, Ultimately permanent solution for drinking water due to drought is proper water supply system

Water Resources

Long-term	Short-term
Enhancing supply • storage capacity increase • water transfers • locating new potential resources • aqueducts and canals • groundwater recharge • small scale water collection/harvesting • adjusting legal and institutional framework • desalination of brackish & saline water • treatment & reuse of wastewater/recycling	Supply augmentation (all/specified sectors) • Mixing fresh & low quality waters • Exploiting high-cost waters • Adjusting legal and institutional framework • Locating new standby resources (for emergency) • Providing permits to exploit additional resources • Providing drilling equipment
Improving demand management (in all sectors/uses) • Reducing use • Reducing losses • Reviewing water allocation • Monitoring, metering, forecasting • Conjunctive use (surface-groundwater) • Reviewing education curricula • Adopting/reviewing water tariffs • Adjusting legal & institutional framework • Voluntary insurance, pricing and economic incentives	Demand management (all/specified sectors) • Restricting agricultural uses (rationing, subjecting certain crops to stress, ...) • Restricting municipal uses (lawn irrigation, ...) • Reviewing operations of reservoirs • Diverting water from given uses • Over-drafting aquifers (temporarily) • Reviewing water tariffs • Rationing water supply • Sensitizing and awareness campaign • Adjusting legal and institutional framework • Negotiating transfer between sectors • Dual distribution networks for drinking water supply
	Measures other than supply and demand

	• Temporary reallocation of water (on basis of assigned use --priority) Decreasing transport and distribution costs --- Banning/restricting uses Providing emergency supplies • Elaborating set-aside regulations • Inventory private wells, negotiate purchase of water rights for public use Elaborate regulations on water markets • Assess vulnerability & advise water users • Elaborate alert procedures
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Agriculture

Long-term	Short-term
Agriculture water management (complying with water resources strategy/plan) • Irrigation expansion if/where possible • Improving demand management (more efficient systems) • water loss reduction • Irrigation scheme modernization/ conversion to more efficient systems • shift to less water-demanding crops and cropping systems • research of drought tolerant crops/species/genotypes • adjusting cropping calendars to avoid heat stress • use of non-conventional water resources • deficit irrigation, supplementary irrigation • conjunctive use of surface and groundwater • soil water conservation practices • adopting/reviewing water tariffs	Crop Production • Supplementary irrigation where water can be mobilized and made available on short-term basis • Soil water conservation practices • Early warning, information and advice to farmers • Review of fertilization program • Soil mulching and crop shading • Reducing crop density • Weeding
Crop production • Breeding for drought tolerance species & adaptation to short season • Cultural practices and techniques for conservation agriculture: • Proper fertilization • No-till/reduced tillage systems • Crop rotation/cropping systems • Seeding rate/density	Livestock, range and pasture lands • Early warning / advice to herders • Destocking / incentives for owners to reduce • Review available feed and reduce animal numbers • Livestock transfer where/when possible • Watering points/ water hauling sources • Locating potential sites of water for emergency • Constituting feed stocks • Adjusting water salinity to tolerable levels • Rapid inventory of grazing potential

• Weeding/adapted pest management • Mulching/adapted soil preparation • Strip farming • Crop insurance	• Protective (natural) shelters • Alternative feed (by-products, less and un-palatable shrubs, ...) • Supplementary, substitute feeds
Livestock • Drinking supplies • Balancing livestock in irrigated areas • Managing pasture and range supportive capacity • Use of indigenous breeds of feed and fodder • Genotypes of mammals / low water use • Early information for pastoralists • Forage reserves • Non conventional fodder sources	

11. Forest Fire Analysis and Forest Fire Emergency Work in Batticaloa District

S.No	DS Divisions	GN Division	No	Village	Actual Location with GPS Coordinate	Near situating Forces Camp for Fire Management	GN Name	Fire Management Available Resources	
								Water Bowser	Fire brigade
01	Koralipattu North-Vaharai (04 GN)	Panichchankerny	01	Nadukkudiyiruppu	Behind the Church 08 05 54 13 N 81 26 43 62 E	233 brigade-065-3658131/0766907156, Kasiyappa Naval base, Kajwaththai-011-3818067/071-8017568, Police Vaharai-065-3658910/071-8591140 6GR,Panichchankerny-076-2207854 6GR , Navalady-076-6907466	T.Suthakaran 077-5920812	03Bowser (3000L*3) Available at PS-KPN. PS Secretary T.P 065-4926942 /077-2022974 & 2 Bowser (15000L,4000L) Available at D.S -KPN D.S – S.Karan - 0652058801/077-8369526 NDRSC – V.Thujithan 077-4335169	Fire Brigade, Batticaloa MC 065-2222222, SL Air Force, Batticaloa-065-2224414/15/16
			02	New Town	Batticaloa-Trinco Highway area 08 04 49 9 N 81 26 53 84 E				
		Ooriyankattu	03	Seththukkudah	Seththuukkudah 08 06 14 33 N 81 26 13 03 E		M.H.M.Azkar 077-7597672		
		Vaharai North	04	Puliyankandalady	40 th mile post 08 09 44 96 N 81 25 08 93 E		M.Uwais 077-6280797		
		Mankerny South	05	Perappayadi madu	Perappayadi madu 07 59 33 74 N 81 30 15 98 E		S.Kajendran 077-9567705		
02	Koralaipattu -	Kalkudah	06	Paasikkudah	Kasoorina forest area-Near the	Naval Detergmt	Kirusnakanth 077-3764717	1 Bowser (4000L)	Fire Brigade, Batticaloa MC

	Valaichchenai (01 GN)				Munai Murugan Kovil 07 55 08 89 N 81 34 43 69 E	(Radar Point), Kalkudah- 065-7508208 , Police- Kalkudah- 065-2257707/ 071-8591139, 4GW,Kumpuru moolai- 076-2043513		Available at PS- KP. PS Secretary T.P Mr.P.Lingeswar an 0652257275/ 0774689060	065-2222222, SL Air Force, Batticaloa- 065- 2224414/15/16
03	Koralaipattu South-Kiran (06 GN)	Kiran East	07	Nawaththai	Kaju Co- operation area & 50 housing scheme 07 52 18 79 N 81 33 53 09E	231 Brigade- 065-3642010/ 076-6907154, 4GW Kumpurumoolai -076-2043513 & 4GW Siththandi- 076-2043513	R.Achchuthan 077-5700096	2 Bowser (4000L) Available at D.S –KP D.S – S.Rajbabu – 0653656957/ 0775520836 NDRSC – S.Sittampalam 0754344614	Fire Brigade, Batticaloa MC 065-2222222, SL Air Force, Batticaloa- 065- 2224414/15/16
		Kudumpimalai	08	Sinna Miyankal	Sinna Miyankal Forest area 07 49 22 37 N 81 22 03 17 E	232 Brigade- 0653641092/ 0776907155, 12 SLNG, Periyawettuwan- 076 5303545/ 026-3266532	V.Vadivel 076-6962247		
			09	Periya Miyankal	Periya Miyankal Forest area 07 48 40 51 N 81 21 35 32 E				
			10	Kudumpimalai	Kudumpimalai Forest area 07 50 06 34 N 81 23 33 41 E				

		Muruththanai	11	Akkuranai	Akkuranai Forest area 07 53 42 31 N 81 23 49 79 E		Mrs.S.Kuru 075-2883461		
			12	Minuminithhta veli	Minuminithhta veli Forest area 07 55 57 46 N 81 20 38 33 E				
		Vadamunai	13	LB village	LB village Forest area 07 53 57 59 N 81 17 32 18 E	SFH East, Welikanda- 027-3278909/ 076-6907013 Welikanda police- 027-2259143	S.Dilakshan 077-4502888		
		Kallichchai	14	Kallichchai	Kallichchai Forest 14area 07 54 45 46 N 81 15 15 74 E		K.Jeyakumar 071-8023446		
		Oothhtuchchenai	15	Mandoorvettai	Mandoorvettai Forest area 07 54 56 16 N 81 18 05 35 E		N.Sujeewan 077-2611686		
04	Eravur Pattu- Chenkallady (02 GN)	Savukkadi	16	Sinna Savkkadi	Beach side (Kasoorina forest area) 07 46 48 12 N 81 38 53 67 E	231 Brigade- 0653642010/ 0766907154, 4GW Sinhala Maha Vidyalaya- 077-0344313/ 065-3065563	K.Ganeshan 075-8862405	4Bowser (5000L) Available at PS- EP. Secretary, PS, EP – 0652240536/ 07795841692 & 04Bowser (1*13500L, 3*4000L) Available at D.S	Fire Brigade, Batticaloa MC 065-2222222, SL Air Force, Batticaloa- 065- 2224414/15/16
		Kumaraveliyar Village	17	Amman puram	Mangroo patch wetland area 07 46 42 09 N	231 Brigade- 0653642010/ 0766907154, 4 GW Sittandy-	S.Kopu 077-9053883		

					81 35 39 82 E	076-2043513 & Kumpurumoolai -076-2043513/ Eavur Police- 065-2240487/ 071-8591134		-EP. D.S –EP- N.Vilvaretnam – 0652240513/ 0714899657 NDRSC – P.Mathusuthan – 0773202082	
05	Eravur Town- Eravur (01 GN)	Eravur-06	18	Surattayankudah	Eravur UC Garbage dumping area- Lagoon side 07 77 13 84 N 81 60 20 13 E	231 Brigade- 0653642010/ 0766907154, 4 GW Sittandy Eavur Police- 065-2240487/ 071-8591134	M.Y.Aslam 076-2602126	3Bowser (3000L) Available at UC-Eravur Town. Secretary, UC, ET - 0652241080	
06	Manmunai North- Batticaloa (04 GN)	Sathrukondan	19	Sathrukondan	Wetland area (Batticaloa- Trinco High way) 07 44 12 28 N 81 39 40 21 E	231 Brigade- 0653642010/ 0766907154, 4 GW Sinhala Maha Vidyalya, 077-0344313/ 065-3065563, Batticaloa Police- 065-2224423/ 071-8591130	M.Manmathan 077-0486136	02 Lorry Bowser (15000L, 6000L) 1 Tractor Bowser (4000L) Available at MC-Batticaloa. Commissioner, MC, Batticaloa - T.P	Fire Brigade, Batticaloa MC 065-2222222, SL Air Force, Batticaloa- 065-2224414/15/16
		Thiraimadu	20	Swiss village	Palmyrah forest –Near the new Kachcheri 07 45 27 94 N 81 39 54 86 E	231 Brigade- 0653642010/ 0766907154, 4 GW Sinhala Maha Vidyalya- 077-0344313/	R.Kokulathas 075-2875531	0652222666/ 077960417 D.S MN- Mr.V.Vasutheva n 065-2257713/ 077-5387548	

						065-3065563, Batticaloa Police- 065-222443/ 071-8591130		NDRSC-Mr. T.Asokkumar 077-9674180	
			21	Thiraimadu	Kasoorina forest area-Near the beach side 07 46 00 5 N 81 39 56 5 E	231 Brigade- 065-3642010/ 076-6907154, 4 GW Sinhala Maha Vidyalya- 077-0344313/ 065-3065563			
		Thiruperunthurai	22	Thiruperunthurai	Garbage dumbing area- Urani to Airport road 07 43 23 92 N 81 40 29 03 E	231 Brigade- 065-3642010/ 076-6907154, 4 GW Sinhala Maha Vidyalya- 077-0344313/ 065-3065563	U.Thanojitha 077-5823778		
		Puthunagar	23	Maantheevu	Mantheevu Island 07 42 05 15 N 81 39 44 87 E	SL Air Force, Batticaloa-065- 2224414/15/16	T.Raveendar 075-4568748		
07	Manmunai South & Eruvil Pattu- Kaluwanchi kkudy (04 GN)	Kurukkalmadam North	24	Kurukkalmadam	Kasoorina forest area 07 35 14 83N 81 47 23 26 E	231 Brigade- 065-3642010/ 076-6907154, 11SR-076- 6907430/ 065-2056700 Kaluwanchikku dy Police- 065-2250022/	Ms.K.Anushin i 076-9409220	01 Tractor Bowser (4000L) Available at PS- MS&EP. Secretary, PS- MS&EP- Mr.K.Latchumik anthan 065-2250075/	Fire Brigade, Batticaloa MC 065-2222222, SL Air Force, Batticaloa- 065- 2224414/15/16
		Theththatheevu south-01	25	Kudiyiruppu Village	Mangroo patch wetland area 07 33 20 60 N		Ms.R.Maruthy 075-2274728		

					81 46 23 19 E	071-8591142		077-1239689 DS- MS&EP Mrs.S.Vilvaratnam- 065-2250344/ 071-4899610 NDRSC- S.Gnantheran- 077-8466775-	
		Kaluthawalai -01	26	Pillayar kovil	Mangroo patch wetland area 07 32 49 85 N 81 46 391 E		A.Sathyaseelan 075-2819234		
		Paddiruppu	27	Paddiruppu village	Mangroo patch wetland Near the Kanngi amman kovil 07 30 51 55 N 81 46 49 95E		Ms.K.Nirochini 075-7702194		
08	Poratheevu Pattu-Vellavelly (01 GN)	Vanninagar	28	Vanninagar	Mangroo patch wetland area 07 31 59 76 N 81 44 28 55 E	231 Brigade- 0653642010/ 0766907154, 11SR- 076-6907430/ 065-2056700 Police,Vellavelly- 065-2056305/ 071-8591143	E.Pratheeparaj (Act) 076-7539918	2Bowser (8000L,4000L) Available at PS-PP. A.Athithan, Secretaru, PS – PP ,TP – 0652056115/ 07711662353 03 Bowser (12000L,2*4000 L) Available at D.S-PP D.S-PP Ms.R.Rahulanayagi- TP 0652056110/ 0776653867 NDRSC- S.Ravikumar- 077-6460618	Fire Brigade, Batticaloa MC 065-2222222, SL Air Force, Batticaloa- 065-2224414/15/16