

Memorandum

for

CENTRAL ASSISTANCE ON IMMEDIATE DROUGHT RELIEF MEASURES

2012

(Revised)



Submitted by
State Relief Commissioner &
Principal Secretary
Department of Revenue and Disaster Management
Government of Kerala

31-10-2012

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CHAPTER 1: EXECUTIVE SUMMARY

1.1. INTRODUCTION

Indian Meteorological Department declared the onset of monsoon of 2012 on 5th June over Kerala. IMD in its first stage forecast of the South-West monsoon issued on 26th April predicted 47% probability of the monsoon rainfall to be normal (96 to 104 % of long period average). In its press release dated 27 July 2012, IMD reported that Kerala as a whole had a rainfall deficit of 39% from its long period average for the period of 1 June - 25 July. Expected rainfall from 1 June to 25 July for Kerala was 1255.1 mm while actual rainfall was only 760.9 mm (Weekly Rainfall Report, 27 July 2012, IMD). Figure 1 shows the monthly rainfall map for the southwest monsoon of 2012 (2012 Southwest Monsoon Season, End of Seasons Report).

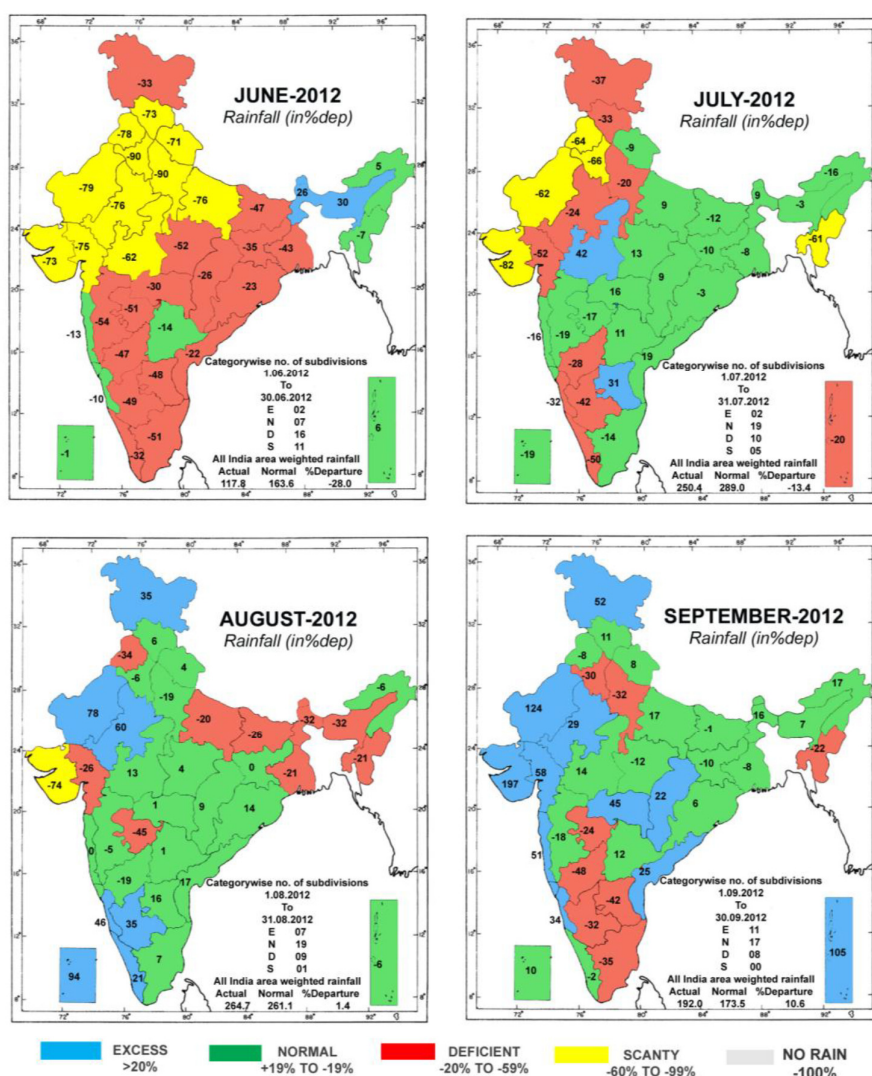


FIGURE 1: MONTHLY RAINFALL OVER INDIA DURING SOUTHWEST MONSOON 2 (SOURCE: IMD)

Following IMD's drought classification and the daily rainfall data collected by IMD through the Integrated Agricultural Data Platform (IADP), the rainfall deficit from 1 June 2012 - 31 July and 1 June to 30 September 2012 were mapped. Data from 68 rain gauges were used for the analysis.

1.2. SITUATION ASSESSMENT AS ON 31 JULY 2012

Based on the analysis it was evident that majority of the state had a deficit of rainfall by end of July; 492 villages were severely drought prone (>50% deficit), 1070 villages were moderately drought prone (26-50% deficit), and 22 villages were drought prone (10-26% deficit) as per IMD criteria. Figure 2 B shows the map depicting the drought severity classes based on the data and the top priority villages to be addressed for drought risk reduction in the state condiring the meteorological drought situation.

1.3. SITUATION ASSESSMENT AS ON 30 SEPTEMBER 2012

The monsoon intensified since then and the overall deficit dropped to 24% from the 32% as per the values till 30 Sep 2012 (IMD Daily Rainfall Statement issued on 30 September 2012). Most of the reservoirs of the state have a record low storage for the season (which is also a proxy of the ground water status) considering which the situation may agrevate if the North East Monsoon does not perform enough to overcome this deficit. It may be noted that NE monsoon traditionally does not contribute more than 33% of the annual rainfall received by the state.

1.4. RELIEF EFFORTS UNDERTAKEN BY STATE GOVERNMENT

Considering the prevailing situation, the State Disasster Management Authority under the Chairmanship of Honb'le Chief Minister in its meeting held on 6 September 2012 assessed the drought situation in the State. The State Department of Revenue and Disaster Management and Department of Agriculture were assigned with the responsibility for directing drought operations in the State. The Relief Commissioner/Principal Secretary, Disaster Management who is inter alia the Secretary, KSDMA recommended the declaration of drought on the basis of situation on the ground. **Based on available facts, the SDMA resolved to declare four districts, they being Thiruvananthapuram, Kollam, Idukki and Wayanad as drought affected.**

A memordandum detailing the cost of anticipated and ongoing drought risk reduction measures in the state was submitted to the Ministry of Agriculture, Govt. of India in early September. This revised memorandum for central assistance specifically outlines financial assistance sought from Government of India for drought risk reduction in the four districts declared as drought affected. Table 1 shows the total assistance sought from Government of India for drought risk reduction.

Further, Relief Commissioner/Principal Secretary, Disaster Management issued various instructions to the District Collectors for provision of relief assistance to the people affected by drought. The Relief Commissioner/Principal Secretary, Disaster Management had issued orders for release of all financial assistance to the district administrations and other departments.

The Relief Commissioner/Principal Secretary, Disaster Management conducted an assessment of losses in sectors such as agriculture and animal husbandry, and immediate relief needs such as provision of drinking water to the most affected population. On the basis of this assessment, it is decided by the State Government to submit an initial appeal to Government of India seeking financial assistance from the National Disaster Response Fund (NDRF) for relief

activities including financial assistance for undertaking short term and long term drought mitigation measures to be financed from other sources of Central Government.

The district administration under the leadership of the Collector is instructed to implement all the decisions related to drought management on the ground. The Collectors are asked to monitor all the indicators of drought on the ground: collect data on rainfall on a daily basis from sources other than IMD that includes rain gauges maintained by private plantations, important water storages in the district and monitor the progress of sowing operations. The Collectors are also asked to monitor all local information related to demand for relief employment, prices of food grains and the availability of fodder. All relief activities such as relief, employment, distribution of food grains, supply of drinking water and procurement and sale of fodder are coordinated by the District Collectors.

The District Collectors have already directed all the line departments at the district level to participate in drought management, prepare contingency plans and mobilize their staff and resources. The technical departments are in the process of identifying works and preparing estimates so that there is adequate work on the shelf to provide relief employment in the drought-affected areas.

The District Collectors are assessing the situation related to scarcity of drinking water and fodder, and issuing appropriate instructions regarding preservation of drinking water, supply of drinking water through tankers, procurement and sale of fodder, and setting up of fodder depots and cattle camps.

As part of coordinating relief and mitigation activities, the District Disaster Management Authorities that are set up under the chairmanship of the Collector consisting of Panchayati Raj officials and the district officials meet frequently and review the progress of drought relief and mitigation measures in the district. The State/district disaster management authorities are made fully functional and the following actions have been taken/being taken to tackle the drought situation.

- Meetings of District Disaster Management Authorities of concerned districts have been convened
- Information has been obtained on all the key indicators of drought
- Relief Commissioner/District Collector has developed a strategy for drought management in active consultation with all the participating heads of departments
- A contingency plan for drought management has been developed
- All the departments/agencies have prepared their own contingency plans
- Necessary funds have been handed over to District Collectors for immediate relief activities

1.5. DROUGHT RELIEF MEASURES ORGANIZED BY SDMA

- Rationing orders have been issued for drinking water
- Water is being equitably distributed for multiple purposes: drinking, commercial, industrial and agricultural
- Instructed the Departments concerned to take up temporary water supply schemes
- Supply of drinking water is being organized through tankers
- A ban on digging deep bore-wells has been enforced

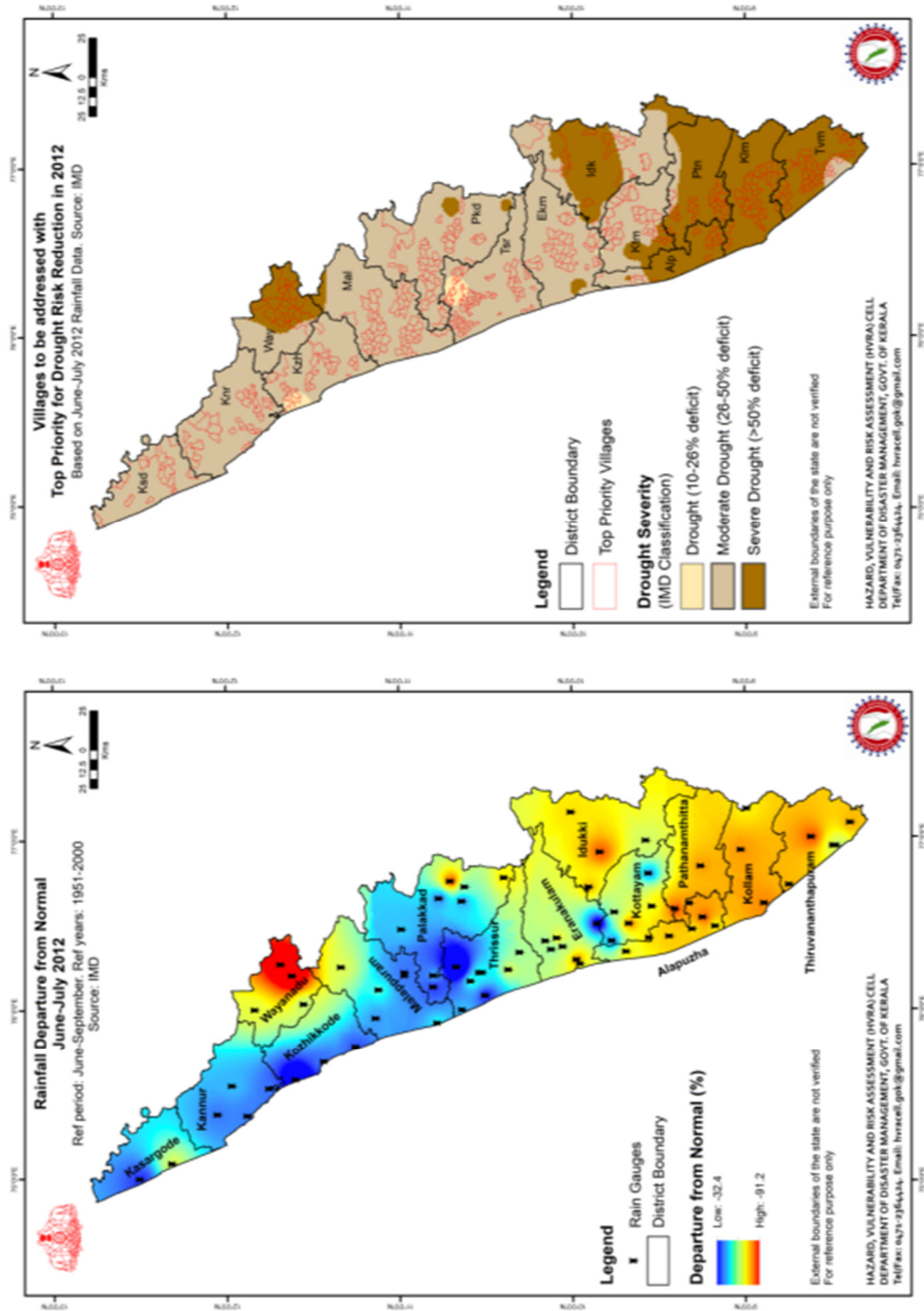


FIGURE 2: A) JUNE-JULY 2012 RAINFALL DEPARTURE FROM SEASONAL NORMAL AND B) DROUGHT SEVERITY MAP

TABLE 1: TOTAL ASSISTANCE REQUESTED FROM NDRF AND OTHER CENTRAL GOVERNMENT SOURCES

Sl. No.	Activity	Amount (Rs. in Lakhs)
1	Table 7: Cost of Drought Relief Measures initiated by District Administrations (As per norms)	4395.90
2	Table 8: Abstract of Drought Relief Measures initiated by Kerala Water Authority (As per norms)	10129.86
3	Table 10: Total Drought Risk Reduction assistance required for the agricultural sector in Thiruvananthapuram, Kollam, Idukki and Wayanad (Partly as per norms)	22403.1666
4	Table 11: Drought Risk Reduction assistance required for the Animal Husbandary Sector in Thiruvananthapuram, Kollam, Idukki and Wayanad (As per norms)	3.5634
5	Table 12: Abstract of Drought Risk Reduction activities proposed by Dept. of Irrigation in Thiruvananthapuram, Kollam, Idukki and Wayanad (As per norms)	922.99
6	Table 13: Abstract of Drought Risk Reduction activities proposed by Dept. of Ground Water Thiruvananthapuram, Kollam and Idukki (As per norms)	88.29969
7	Table 16: Abstract of Drought Risk Reduction activities proposed by Dept. Health Services in Thiruvananthapuram and Kollam (As per norms)	505.00
8	Annexure 9: Details of losses incurred by Kerala State Electricity Board due to drought (Not as per norms)	161090.00
Grand Total (Rs. One Thousand Nine Hundred and Ninety Five Crore Thirty Eight Lakh Seventy Eight Thousand Only)		199538.78

Thiruvananthapuram
31-10-2012

Sd/-
Dr. K.B Valasalakumari IAS
Relief Commissioner & Principal Secretary
Department of Revenue and Disaster Management
&
Secretary, KSDMA

CHAPTER 2: AGRICULTURAL SCENARIO OF THE STATE

2.1. INTRODUCTION

The total geographic area of the State is 3886287 ha. The net area under cultivation in Kerala during the year 2010-11 was 2071507 ha, which occupies 53.30% of the total area in the State. The total cropped area was 2647461 ha during the year 2010-11. The current contributions of service sector, industrial sector and agricultural sector to State GDP are 69.7, 20.5 and 9.8 respectively. Table 2 provides a brief picture of the agricultural statistics of the state.

TABLE 2: AGRICULTURAL STATISTICS OF KERALA AT A GLANCE (2010-11)

Sl. No	Land use	Area (ha)
1	Forest	1081509
2	Land under miscellaneous tree crops	3690
3	Cultivable waste	91665
4	Fallow other than current fallow	51943
5	Current fallow	76028
6	Net area sown	2071507
7	Area sown more than once	575954
8	Total cropped area	2647461

The agricultural sector of Kerala is characterised by the following:

- Less area under food crops
- Predominance of perennial crops like coconut, rubber, spices tea, coffee, cashew etc.
- Predominance of small and marginal farmers (92%)
- Low level of productivity
- High cost of production
- High percentage of senile and old plantations
- **Highly sensitive to average annual rainfall**
- Low Per capita land - 0.12 ha
- High Labour Cost

Agricultural crops in the state are broadly classified as food crops and non-food crops. Food crops are cereals, millets, sugar crops, spices, condiments, fresh fruits, vegetables, etc. The major non-food crops are rubber, betel leaves, lemon grass, etc. Table 3 shows the statistics related to principal crops produced in the state.



FIGURE 3: MAJOR CROPS AND GROWING AREAS OF KERALA

TABLE 3: AREA, PRODUCTION AND PRODUCTIVITY OF PRINCIPAL CROPS OF KERALA (2010-11)

Sl. No	Crops	Area (ha)	Production (MT)	Productivity (kg/ha)
1	Rice	213185	522739	2452
2	Pulses	3823	2908	760
3	Pepper	172182	45267	263
4	Ginger	6088	33197	5453
5	Turmeric	2391	6216	2600
6	Cardamom	41242	7935	192
7	Areca nut	99834	99909	1001
8	Banana	58671	483667	8244
9	Other plantations	49129	353772	7201
10	Cashew nut	43848	34752	793
11	Tapioca	72284	2360081	32650
12	Coconut	770473	5287	6862
13	Coffee	84931	65650	773
14	Tea	36965	57107	1545
15	Rubber	534230	770580	1442

CHAPTER 3: INCIDENCE AND SPREAD OF DROUGHT

3.1. SEASONS OF KERALA

Kerala state experiences three distinct seasons they being, the South West Monsoon (June-September), the North East Monsoon (October-December) and the Pre Monsoon (January-May). The Pre-Monsoon season is generally dry and receives only scanty rainfall. The South West Monsoon is the major rainfall contributor to the state, providing on an average 43% of the annual rainfall in southern districts and 83% of annual rainfall in the northern districts. The North East provides about 33% of the annual rainfall in southern districts and 9% of annual rainfall in the northern districts. The reliability of the expected rainfall in the South West Monsoon is about 96% while that of North East Monsoon is only about 40%. The hydrological year in the state begins on 1 June and ends on 31 May which is based on the long period average date of onset of South West Monsoon.

3.2. CHARACTERISTICS OF SOUTH WEST MONSOON 2012

IMD in its first stage forecast of the South-West monsoon issued on 26th April 2012 predicted 47% probability of the monsoon rainfall to be normal (96 to 104 % of long period average). Based on this prediction, all departments were instructed to prepare for a normal monsoon condition. However, the monsoon had a delayed start as it set in over Kerala only on 5th June. In its press release dated 27 July 2012, IMD reported that Kerala as a whole had a rainfall deficit of 39% from its long period average for the period of 1 June - 25 July. Expected rainfall from 1 June to 25 July for Kerala was 1255.1 mm while actual rainfall was only 760.9 mm (Weekly Press Release, IMD, 27 July 2012). This demanded a detailed investigation of the rainfall characteristics of Kerala for extracting indicators of impending drought.

IMD follows the following criteria for meteorological drought classification.

- Severe Drought – >50% deficit from long period average rainfall
- Moderate Drought – 26-50% deficient from long period average
- Slight Drought – 10-26% deficit from long period average

3.2.1. RAINFALL FROM 1 JUNE TO 31 JULY 2012

Following the above criteria and the daily rainfall data collected by IMD as part of the Integrated Agricultural Data Platform (IADP) from 68 rain gauges, the rainfall deficit and actual rainfall received from 1 June 2012 - 31 July 2012 was mapped. It is in June & July that almost 70% of the rainfall during the South West Monsoon season is expected in the state. Figure 2 A shows the 1 June to 31 July 2012 rainfall departure from the long period average rainfall from 1 June to 30 September (based on data from 1951-2000) (Data source: IMD). Table 4 show the data used for the analysis.

TABLE 4: 1 JUNE TO 31 JULY 2012 ACTUAL RAINFALL (MM) AND DEPARTURE (%) FROM NORMAL (MM)

ID	Station	District	Normal RF	Actual RF	Departure %
1	Kannur	Kannur	2652.1	1155.3	-56.44
2	Taliparamba	Kannur	2669.6	1165.2	-56.35
3	Thalasserry	Kannur	2652.1	1164.9	-56.08
4	Irikkur	Kannur	2669.6	1094	-59.02

5	Hosdurg	Kasaragod	2979.9	927.2	-68.88
6	Kudulu	Kasaragod	2979.9	1389.7	-53.36
7	Kozhikode	Kozhikode	2363.1	1071.8	-54.64
8	Vadakara	Kozhikode	2832.3	1649	-41.78
9	Quilandy	Kozhikode	2612.9	1151.3	-55.94
10	Mananthavady	Wayanad	2091	622.6	-70.22
11	Vythiri	Wayanad	3172.7	1026.9	-67.63
12	Ambalavayal	Wayanad	3172.7	277.4	-91.26
13	Kuppady	Wayanad	2091	270.3	-87.07
14	Nilambur	Malappuram	2005.6	617.3	-69.22
15	Manjeri	Malappuram	2130.4	791	-62.87
16	Perinthalmanna	Malappuram	2130.4	943.2	-55.73
17	Ponnani	Malappuram	2046.1	792.1	-61.29
18	Angadippuram	Malappuram	2130.4	930	-56.35
19	Karipur AP	Malappuram	2130.4	900.2	-57.75
20	Palakkad	Palakkad	1394.4	597.4	-57.16
21	Mannarkad	Palakkad	1698.9	686.7	-59.58
22	Ottappalam	Palakkad	1758.8	1188.2	-32.44
23	Alathur	Palakkad	1435.8	601.4	-58.11
24	Chittur	Palakkad	1394.4	286.2	-79.48
25	Kollengode	Palakkad	1435.8	513.4	-64.24
26	Pattambi	Palakkad	1758.8	729.9	-58.50
27	Thrithala	Palakkad	1758.8	817.3	-53.53
28	Parambikulam	Palakkad	1435.8	399.2	-72.20
29	Thrissur	Thrissur	2249.1	865.8	-61.50
30	Kodungallur	Thrissur	2224.6	737.23	-66.86
31	Irinjalakuda	Thrissur	2218.7	689.3	-68.93
32	Vadakkancherry	Thrissur	1995	728	-63.51
33	Kunnamkulam	Thrissur	2046.1	834.5	-59.22
34	Chalakudy	Thrissur	2300.2	780.8	-66.06
35	Enamackel	Thrissur	2218.7	1064.4	-52.03
36	Vellanikkara	Thrissur	2224.6	845.9	-61.98
37	Kochi AP	Ernakulam	2074	618.4	-70.18
38	Aluva	Ernakulam	2141.9	745.7	-65.19
39	Piravom	Ernakulam	2074	1069.7	-48.42
40	Perumbavur	Ernakulam	1987.1	573.1	-71.16
41	CIAL Kochi	Ernakulam	2074	703.9	-66.06
42	Ernakulam South	Ernakulam	2074	475.5	-77.07
43	Alappuzha	Alappuzha	1830.5	492.6	-73.09
44	Kayamkulam	Alappuzha	1391.8	391.1	-71.90
45	Mavelikkara	Alappuzha	1731.2	368.8	-78.70
46	Cherthala	Alappuzha	1764.3	492.3	-72.10
47	Mancompu	Alappuzha	1830.5	476.5	-73.97
48	Haripad	Alappuzha	1837	498.5	-72.86
49	Chengannur	Alappuzha	1920.8	464.3	-75.83
50	Kottayam	Kottayam	1830.5	525.4	-71.30
51	Vaikom	Kottayam	1830.5	783.8	-57.18
52	Kumarakom	Kottayam	1830.5	431.6	-76.42

53	Kozha	Kottayam	1830.5	603.6	-67.03
54	Kanjirappally	Kottayam	1830.5	760.6	-58.45
55	Peermade	Idukki	3104.5	980	-68.43
56	Thodupuzha	Idukki	3104.5	798.9	-74.27
57	Munnar	Idukki	2771.8	753.1	-72.83
58	Idukki	Idukki	3104.5	654.6	-78.91
59	Thiruvalla	Pathanamthitta	1713.8	355.7	-79.24
60	Konni	Pathanamthitta	1716.2	415.4	-75.80
61	Kollam	Kollam	1266.5	291.6	-76.98
62	Aryankavu	Kollam	1271.5	354	-72.16
63	Punalur	Kollam	1458.3	348.4	-76.11
64	Trv City	Thiruvananthapuram	855.7	252.9	-70.45
65	Trv AP	Thiruvananthapuram	818.1	273.3	-66.59
66	Nedumangad	Thiruvananthapuram	830.1	172.4	-79.23
67	Neyyattinkara	Thiruvananthapuram	715.2	178	-75.11
68	Varkala	Thiruvananthapuram	1137.9	286.5	-74.82

This rainfall departure data was interpolated using Inverse Distance Weighting (IDW) method and was overlaid with the village map and the perennial water body map of Kerala to list out the villages with and without any perennial water bodies to determine those villages to be specifically addressed with top priority for drought risk reduction (cf. Figure 2 B). Table 5 shows the number of villages falling in each drought class. Annexure 1 and Annexure 2 show the severity of drought in the villages of the state.

TABLE 5: NUMBER OF DROUGHT PRONE VILLAGES IN EACH DISTRICT WITH AND WITHOUT PERENNIAL WATER BODIES

District	Number of villages without WB			Number of villages with WB			Total		
	Severe	Moderate	Slight	Severe	Moderate	Slight	Severe	Moderate	Slight
Kasargod	0	21	0	0	64	0	0	85	0
Kannur	0	32	0	0	97	0	0	129	0
Kozhikode	0	24	3	0	86	4	0	110	7
Wayanad	19	1	0	13	16	0	32	17	0
Malappuram	0	49	0	4	82	0	4	131	0
Palakkad	0	42	0	14	101	0	14	143	0
Thrissur	0	77	7	1	161	8	1	238	15
Ernakulam	0	32	0	16	77	0	16	109	0
Alappuzha	11	3	0	64	13	0	75	16	0
Kottayam	10	22	0	25	37	0	35	59	0
Idukki	10	5	0	38	11	0	48	16	0
Pathanamthitta	19	1	0	47	1	0	66	2	0
Kollam	34	0	0	69	0	0	103	0	0
Thiruvananthapuram	39	4	0	59	11	0	98	15	0
Total	142	313	10	350	757	12	492	1070	22

Based on the analysis it was found that majority of the state was facing a significant deficit of rainfall by the end of July 2012; 492 villages were severely drought affected (>50% deficit), 1070 villages were moderately drought affected (26-50% deficit), and 22 villages were slightly drought prone (10-26% deficit). Figure 2 B shows the districts that experienced server meteorological drought conditions by end of July and the villages that were identified as those villages to be specifically addressed with top priority for drought risk reduction.

3.2.2. RAINFALL FROM 1 JUNE TO 30 SEPTEMBER 2012

The monsoon intensified since July and the overall deficit dropped to 24% by 30 September 2012 from the 32% as on 31 July 2012 (IMD Daily Rainfall Statement issued on 30 September 2012). However, the total actual SWM rainfall in 2012 was the lowest in the last 7 years. Figure 4 shows the normal rainfall and the actual rainfall received in the SW monsoon season in last 7 years in Kerala.

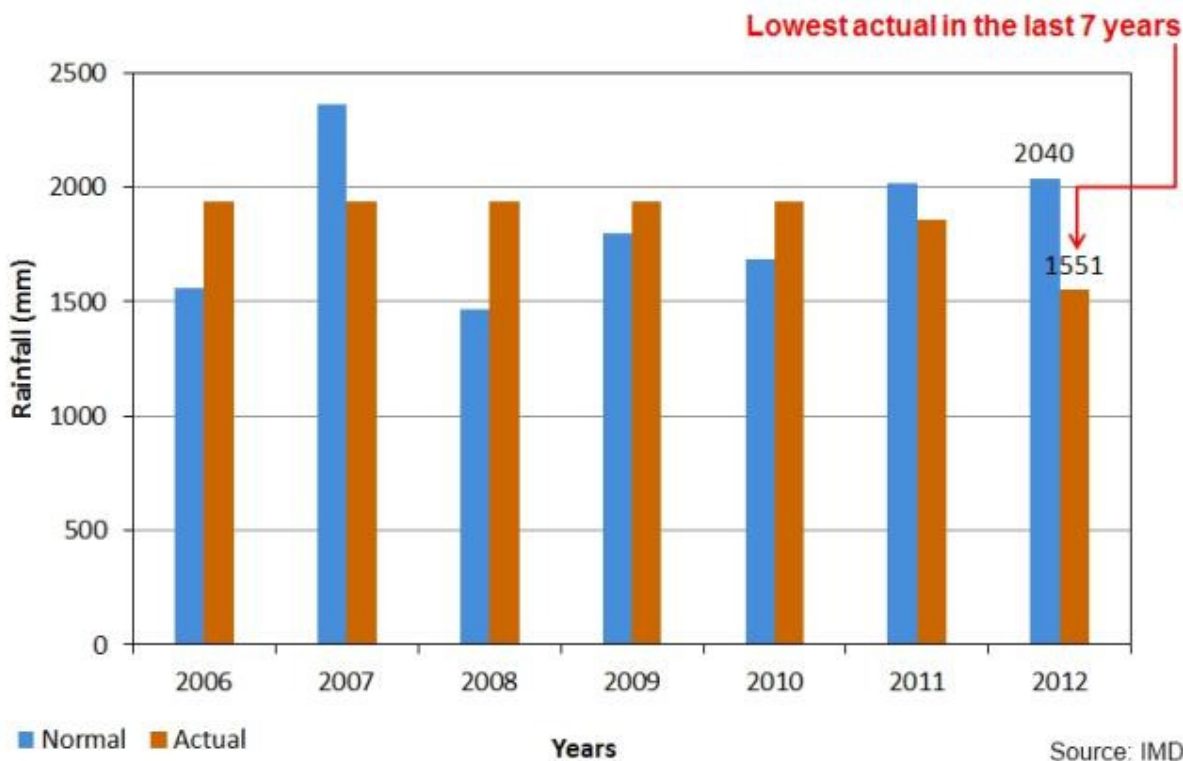


FIGURE 4: NORMAL RAINFALL AND THE ACTUAL RAINFALL RECEIVED IN THE SW MONSOON SEASON IN LAST 7 YEARS IN KERALA

Although the overall deficit was only 24%, the intra-district variability of rainfall and thereby the actual water availability in the respective districts cannot be deduced directly from this value. The departure of actual rainfall from normal rainfall at the 68 raingauges in the IADP network across Kerala for the period 1 June to 30 September 2012 is given in Table 6.

TABLE 6: 1 JUNE TO 30 SEPTEMBER 2012 ACTUAL RAINFALL (MM) AND DEPARTURE (%) FROM NORMAL (MM)

ID	Station	District	Normal RF	Actual RF	Departure %
1	Kannur	Kannur	2652.1	2255.7	-14.95
2	Taliparamba	Kannur	2669.6	2351.2	-11.93
3	Thalasserry	Kannur	2652.1	2148.7	-18.98
4	Irikkur	Kannur	2669.6	2163	-18.98
5	Hosdurg	Kasaragod	2979.9	1741.2	-41.57
6	Kudulu	Kasaragod	2979.9	2764.2	-7.22
7	Kozhikode	Kozhikode	2363.1	1739.1	-26.41
8	Vadakara	Kozhikode	2832.3	3235.0	14.22
9	Quilandy	Kozhikode	2612.9	2063.1	-21.04
10	Mananthavady	Wayanad	2091	1317.6	-36.99
11	Vythiri	Wayanad	3172.7	2284.3	-28
12	Ambalavayal	Wayanad	3172.7	782.6	-75.33

13	Kuppady	Wayanad	2091	685.3	-67.22
14	Nilambur	Malappuram	2005.6	1117.5	-44.28
15	Manjeri	Malappuram	2130.4	1411.0	-33.77
16	Perinthalmanna	Malappuram	2130.4	1372.6	-35.57
17	Ponnani	Malappuram	2046.1	1404.5	-31.36
18	Angadippuram	Malappuram	2130.4	1360.0	-36.16
19	Karipur AP	Malappuram	2130.4	1622.8	-23.83
20	Palakkad	Palakkad	1394.4	1161.9	-16.67
21	Mannarkad	Palakkad	1698.9	1188.7	-30.03
22	Ottappalam	Palakkad	1758.8	2058.6	17.05
23	Alathur	Palakkad	1435.8	1040.5	-27.53
24	Chittur	Palakkad	1394.4	514.4	-63.1
25	Kollengode	Palakkad	1435.8	874.6	-39.09
26	Pattambi	Palakkad	1758.8	1439.4	-18.16
27	Thrithala	Palakkad	1758.8	1433.4	-18.5
28	Parambikulam	Palakkad	1435.8	845.2	-41.13
29	Thrissur	Thrissur	2249.1	1744.6	-22.43
30	Kodungallur	Thrissur	2224.6	1478.4	-33.54
31	Irinjalakuda	Thrissur	2218.7	1385.7	-37.54
32	Vadakkancherry	Thrissur	1995	1365.0	-31.57
33	Kunnamkulam	Thrissur	2046.1	1619.1	-20.869
34	Chalakydy	Thrissur	2300.2	1478.7	-35.71
35	Enamackel	Thrissur	2218.7	1837.2	-17.19
36	Vellanikkara	Thrissur	2224.6	1636.6	-26.43
37	Kochi AP	Ernakulam	2074	1219.8	-41.19
38	Aluva	Ernakulam	2141.9	1518.2	-29.12
39	Piravom	Ernakulam	2074	2207.9	6.45
40	Perumbavur	Ernakulam	1987.1	1245.6	-37.32
41	CIAL Kochi	Ernakulam	2074	1376.9	-33.61
42	Ernakulam South	Ernakulam	2074	942.6	-54.55
43	Alappuzha	Alappuzha	1830.5	1103.4	-39.72
44	Kayamkulam	Alappuzha	1391.8	962.0	-30.88
45	Mavelikkara	Alappuzha	1731.2	985.1	-43.09
46	Cherthala	Alappuzha	1764.3	1258.4	-28.67
47	Mancompu	Alappuzha	1830.5	969.7	-47.03
48	Haripad	Alappuzha	1837	1118.7	-39.10
49	Chengannur	Alappuzha	1920.8	998.2	-48.03
50	Kottayam	Kottayam	1830.5	1133.6	-38.07
51	Vaikom	Kottayam	1830.5	1664.9	-9.05
52	Kumarakom	Kottayam	1830.5	978.5	-46.54
53	Kozha	Kottayam	1830.5	1238.4	-32.35
54	Kanjirappally	Kottayam	1830.5	1420.6	-22.39
55	Peermade	Idukki	3104.5	1939.0	-37.54
56	Thodupuzha	Idukki	3104.5	1577.0	-49.20
57	Munnar	Idukki	2771.8	1589.0	-42.67
58	Idukki	Idukki	3104.5	1324.8	-57.32
59	Thiruvalla	Pathanamthitta	1713.8	911.3	-46.82
60	Konni	Pathanamthitta	1716.2	929.6	-45.83

61	Kollam	Kollam	1266.5	613.9	-51.52
62	Aryankavu	Kollam	1271.5	814.0	-35.98
63	Punalur	Kollam	1458.3	805.4	-44.77
64	Trv City	Thiruvananthapuram	855.7	503.6	-41.15
65	Trv AP	Thiruvananthapuram	818.1	604.8	-26.07
66	Nedumangad	Thiruvananthapuram	830.1	377.0	-54.58
67	Neyyattinkara	Thiruvananthapuram	715.2	328.0	-54.14
68	Varkala	Thiruvananthapuram	1137.9	496.3	-56.38

From the above data it was evident that the districts of Thiruvananthapuram (43%), Kollam (40%) and Wayanad (50%) still faced significant deficit of rainfall. Pathanamthitta (39%) and Alappuzha (38%) also was facing significant rainfall deficit. Figure 5 shows the rainfall departure from normal for the period from 1 June to 30 September 2012.

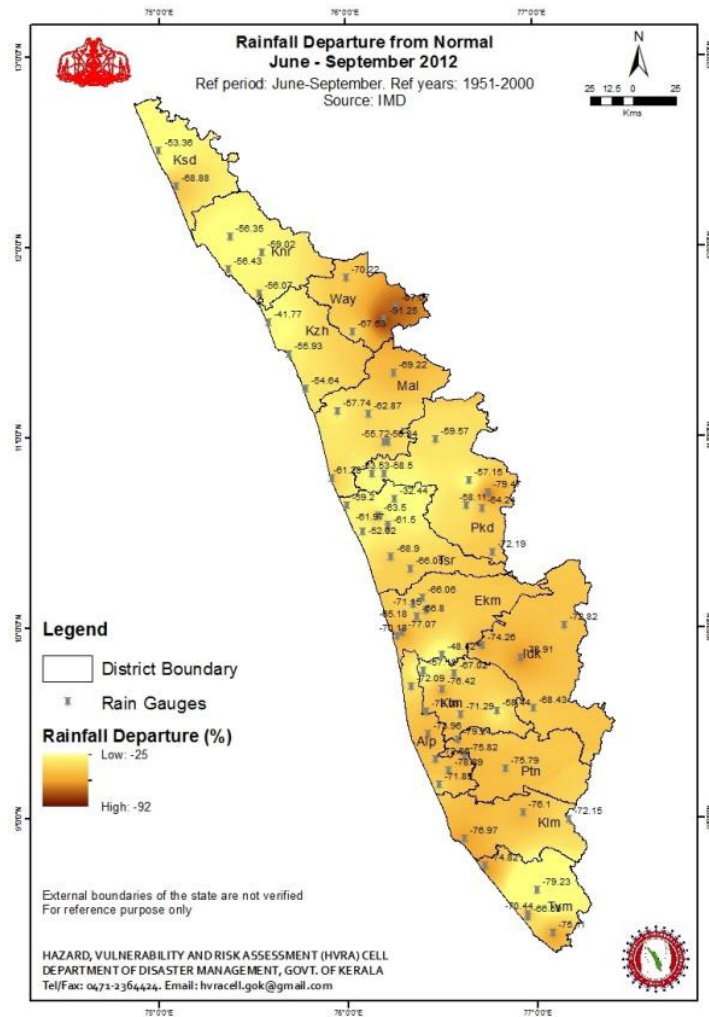


FIGURE 5: 1 JUNE TO 30 SEPTEMBER RAINFALL DEPARTURE FROM NORMAL

The persisting rainfall deficit lead to initiate an assessment of the water level status in the major reservoirs and an assessment of the ground water level of the state. Most of the reservoirs of the state showed a record low storage for the season. Figure 6 shows the water level status in the hydro-electric and multi-purpose project reservoirs of Kerala in comparison with the 5 year mean water level for the month of September.

Water levels in irrigation project reservoirs were compared with respect to the water level for the same month in 2011. Figure 7 shows this data. It can be seen from Figure 6 and Figure 7 that all reservoirs had record low water levels in comparison with the past by the end of September. In addition to these, ground water level data were assessed to identify any down draft. Maps pertaining to the ground water down draft with respect to the mean derived from available data were prepared. These maps were prepared for all districts.

Districts that showed significant rainfall deficit, corresponding substantial ground water down draft and deficit in reservoir storage were identified by the Hazard, Vulnerability and Risk Assessment (HVRA) Cell, the research and technological laboratory of KSDMA and these districts were recommended to Secretary, KSDMA for declaration of drought. Figure 8 A & B shows the ground water down draft for Thiruvananthapuram district; Figure 9 A & B shows the ground water down draft for Kollam district; Figure 10 A & B shows the ground water down draft for Idukki district and Figure 11 A & B shows the ground water down draft for Wayanad district. From the maps it may be noted that Kollam had the highest and most wide spread ground water down draft measuring to a maximum of about 6 m from normal.

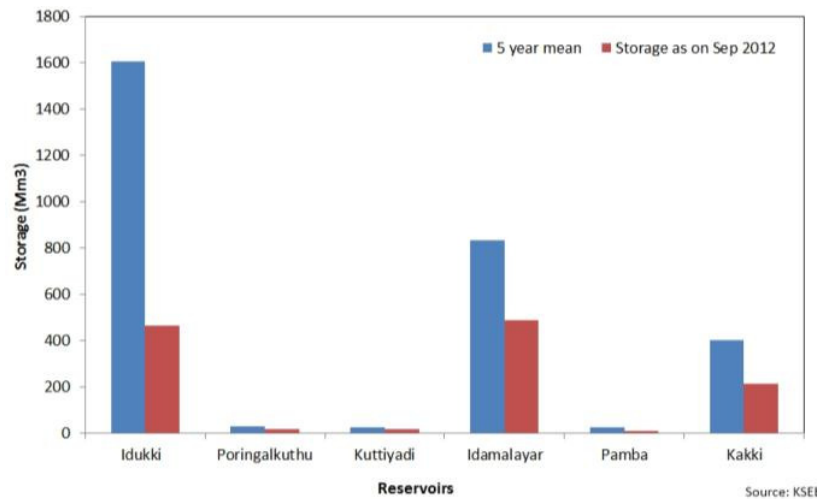


FIGURE 6: WATER LEVEL STATUS AS ON SEPTEMBER 2012 IN THE HYDRO-ELECTRIC AND MULTI-PURPOSE PROJECT RESERVOIRS OF KERALA IN COMPARISON WITH THE 5 YEAR MEAN WATER LEVEL FOR THE MONTH OF SEPTEMBER

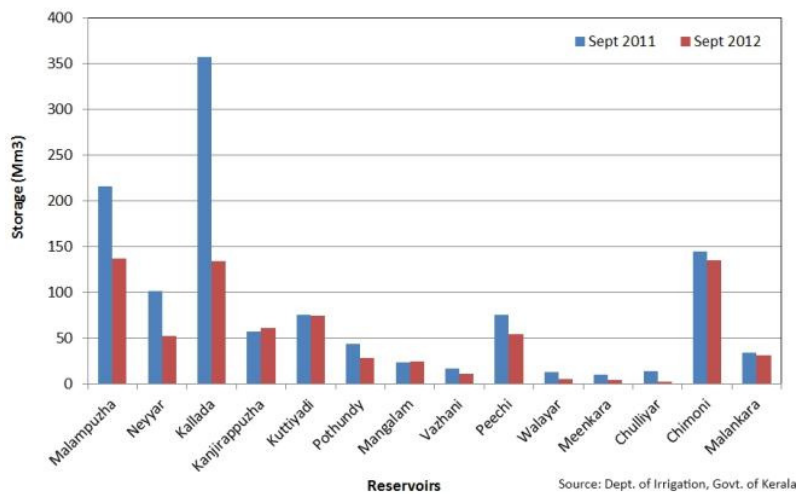


FIGURE 7: WATER LEVEL STATUS AS ON SEPTEMBER 2011 AND 2012 IN THE IRRIGATION PROJECT RESERVOIRS OF KERALA

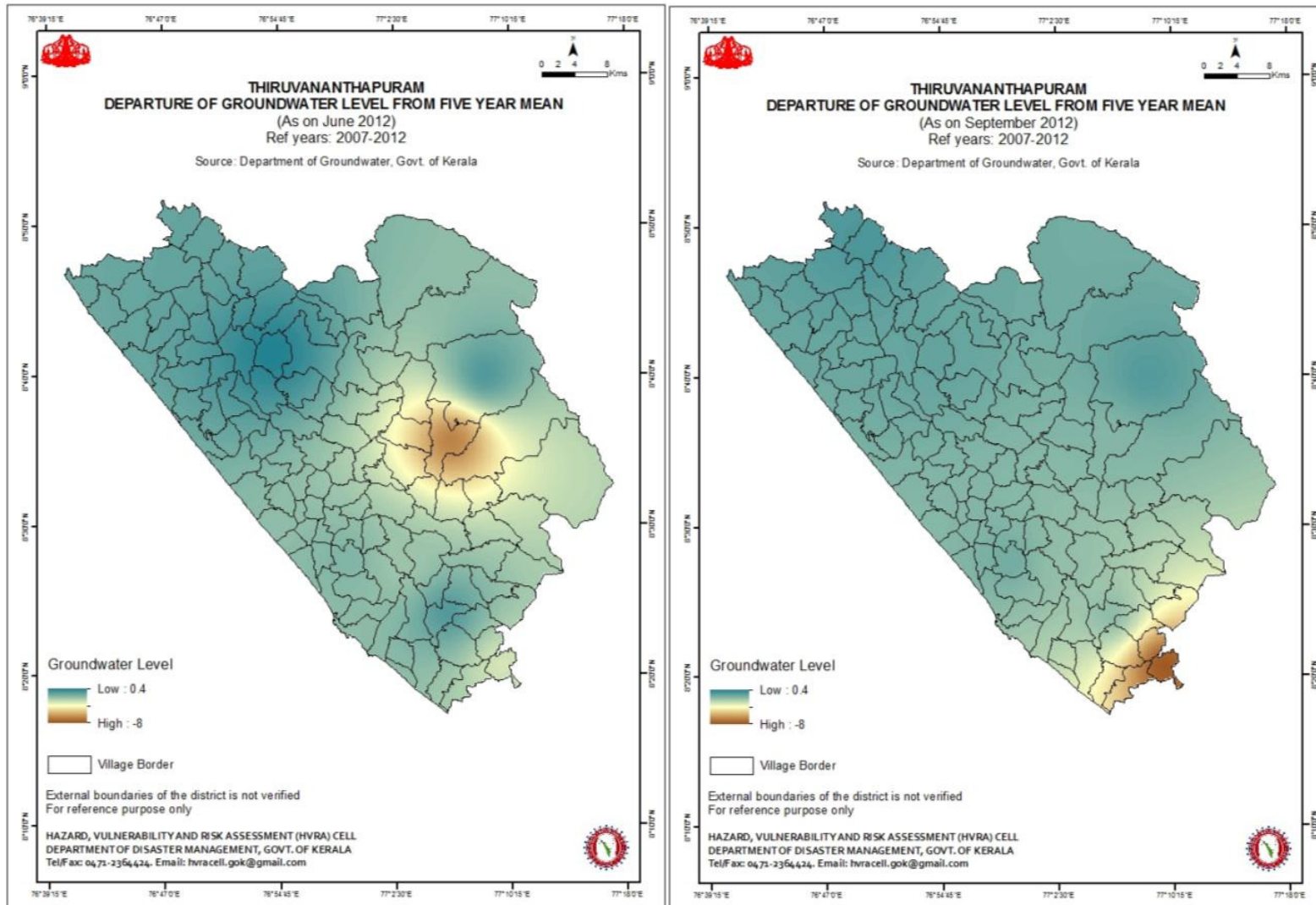


FIGURE 8: DEPARTURE OF GROUND WATER LEVEL IN THIRUVANANTHAPURAM FROM 5 YEAR MEAN A) AS ON JULY & B) AS ON SEPTEMBER 2012

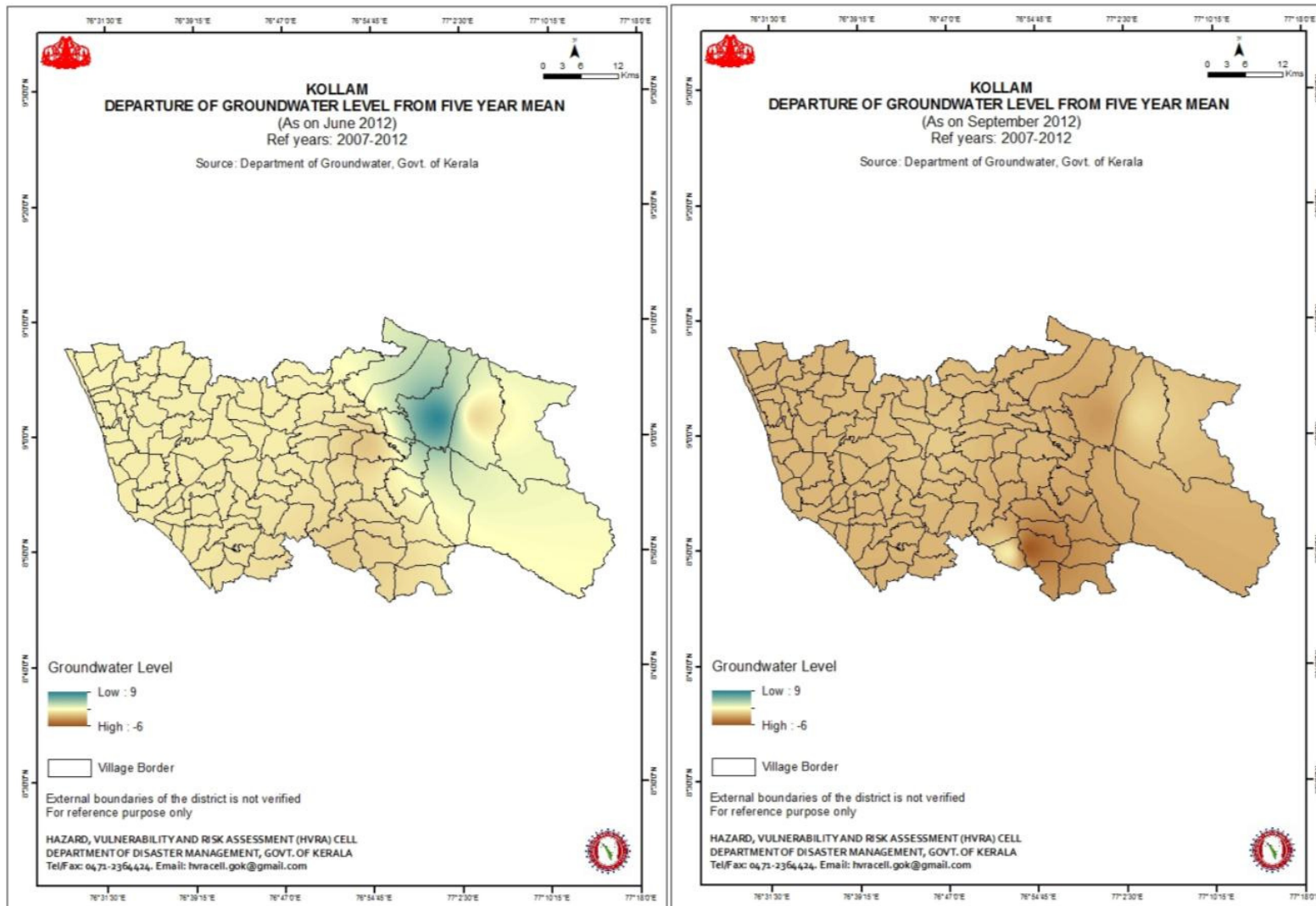


FIGURE 9: DEPARTURE OF GROUND WATER LEVEL IN KOLLAM FROM 5 YEAR MEAN A) AS ON JUNE & B) AS ON SEPTEMBER 2012

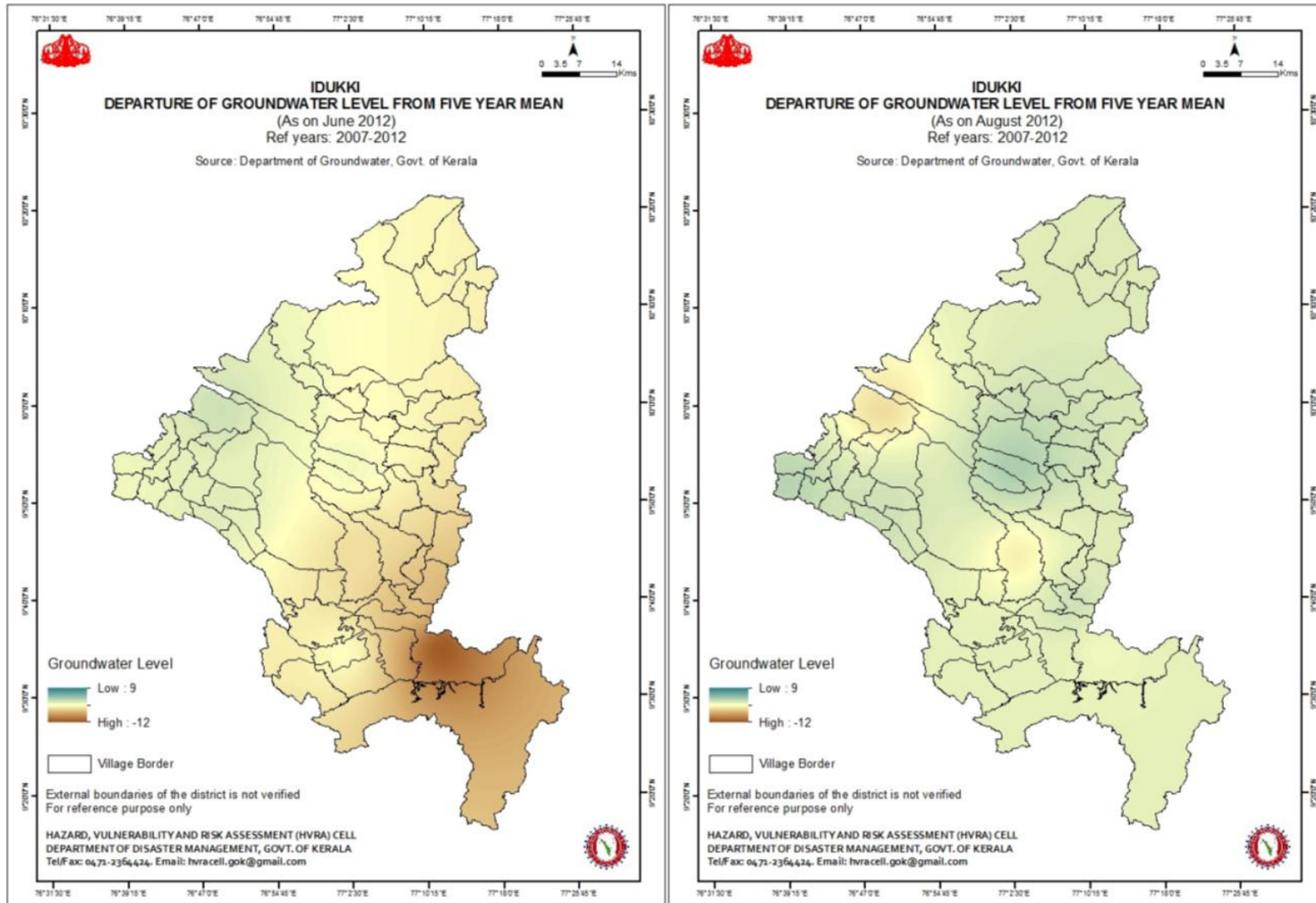


FIGURE 10: DEPARTURE OF GROUND WATER LEVEL IN IDUKKI FROM 5 YEAR MEAN A) AS ON JUNE & B) AS ON AUGUST 2012

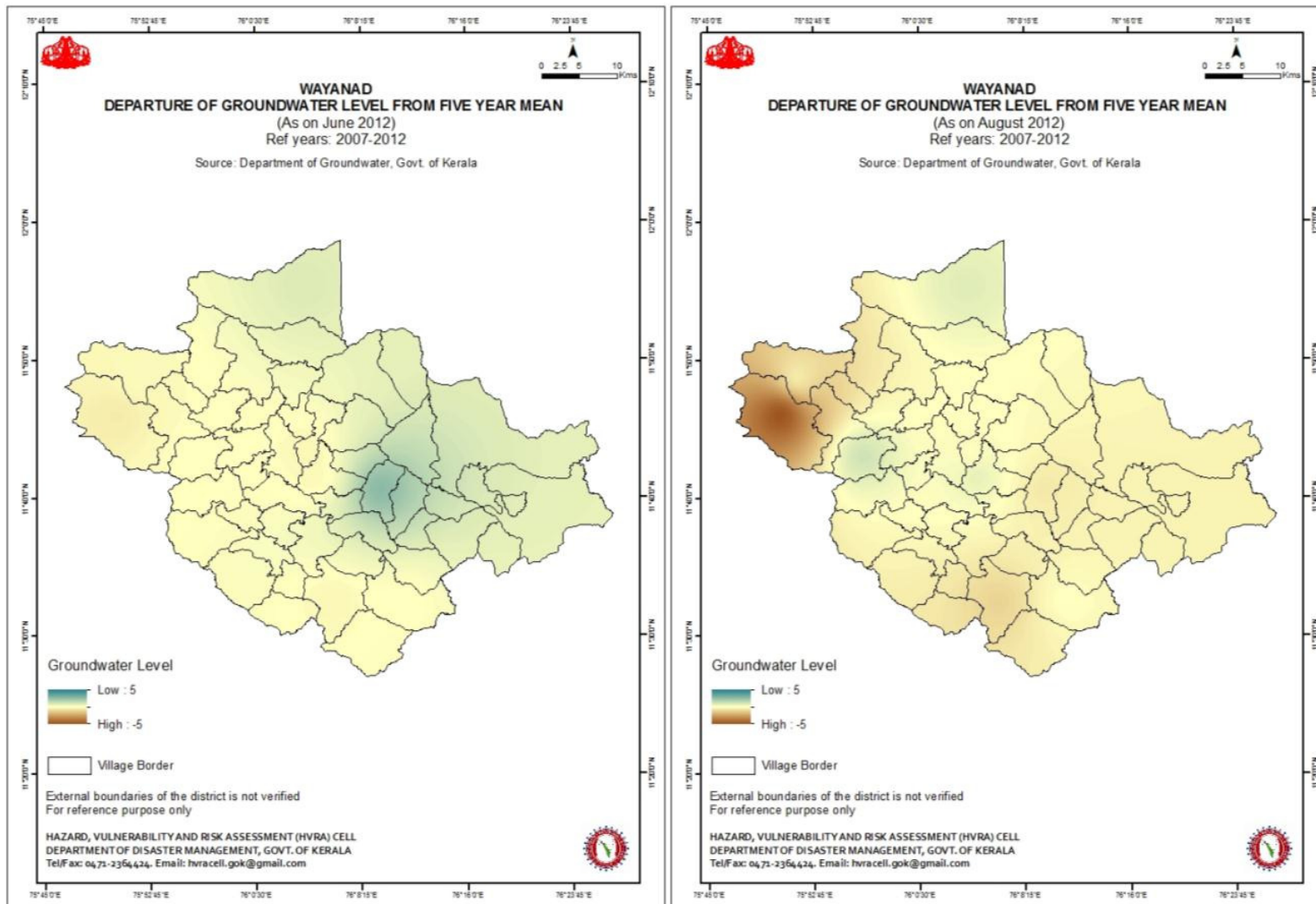


FIGURE 11: DEPARTURE OF GROUND WATER LEVEL IN WAYANAD FROM 5 YEAR MEAN A) AS ON JUNE & B) AS ON AUGUST 2012

Considering the situation, the State Disaster Management Authority under the Chairmanship of Honb'le Chief Minister in its meeting held on 6 September 2012 assessed the drought situation in the State. The Relief Commissioner/Principal Secretary, Revenue and Disaster Management who is *inter-alia* the Secretary, KSDMA recommended the declaration of drought on the basis of situation on the ground.

Based on available facts, the SDMA resolved to declare four districts, they being Thiruvananthapuram, Kollam, Idukki and Wayanad as drought affected.

The Department of Revenue and Disaster Management and Department of Agriculture of the State were assigned with the responsibility for initiating drought operations in the State. The Authority also took note of the fact that North East Monsoon traditionally contributes only a maximum of about 33% of the annual rainfall in the state and that the reliability of the North East Monsoon as far as rainfall amounts is concerned is only 40%. Further, the Authority also expressed concern about that fact that it is highly unlikely that the NE Monsoon will overcome the prevailing deficit and provide sufficient surface water to replenish the reservoirs and ground water to normal or near normal conditions.

CHAPTER 4: DROUGHT LOSSES AND RISK REDUCTION MEASURES

4.1. WATER RESOURCE MANAGEMENT

Water resource management in the drought-affected areas is one of the most critical tasks of relief operations. Since water is a basic need for human and cattle population, supply of drinking water on a steady basis is the most important responsibility for Government at all levels. It requires diverse measures such as augmentation of water supply, rationing of water use, preservation of water and efficient utilization and management of water resources, in both urban and rural areas. Provision of water and its use is the most important yardstick for judging the effectiveness of relief operations.

The State Government has issued special orders for distribution of drinking water in water tankers, repairs and augmentation of all the existing water supply schemes. This includes piped water supply scheme, electrical pumps fitted on bore-wells, hand pumps, wells and any other sources of drinking water.

The District Collectors have directed the Tahsildars to visit the affected areas and draw up Taluk-wise lists of villages in which drinking water scarcity has already developed or likely to arise. The list of these problem villages was counterchecked through the Sub-Divisional Officers and other district officers from the relevant departments and based on their report the Collector have then finalized the list of villages. On the basis of this information, the District Collectors have prepared contingency plans for provision of drinking water in all the villages that are likely to face a water scarcity. The District Collectors have already started supply of drinking water through tankers. The District Collectors have prepared a Taluk-wise list of all the water supply schemes in the district which need repairs. A district-level campaign is being organized for repairing all the hand pumps and electricity pumps fitted on bore-wells. The Collectors are asked to provide funds for immediate repairs to water supply schemes, hand pumps, and bore-wells through the State Disaster Response Fund.

The contingency plan includes the following:

- Supply of drinking water through water tankers where drinking water scarcity is felt
- Any piped water supply scheme, which is already under execution in any of these villages, should be completed expeditiously
- Piped water supply, temporary piped water supply, or bore-wells already constructed in any of the villages which are non-functional should be made functional by undertaking necessary repairs or renovation
- If an existing bore-well can provide enough water to the village by installation of a power pump, the district administration should take immediate measures to install such pumps

4.2. SUPPLY OF DRINKING WATER THROUGH TANKERS BY DISTRICT COLLECTORS

The Collectors have taken immediate measures to supply water through tankers to the villages in the drought-affected districts, where no other source of water supply is available. The Government tankers are deployed for the supply of drinking water and apart from this, private tankers are also hired as Government tankers are inadequate for ensuring uninterrupted supply of drinking water to the affected villages.

The total expenditure for the above works in the four drought declared districts is as given in Table 7. Annexure 3 provides the details of the drought relief works undertaken by the respective district collectorates.

TABLE 7: COST OF DROUGHT RELIEF MEASURES INITIATED BY DISTRICT ADMINISTRATIONS

Sl. No	District	Remark	Cost of Tanker Water Supply (in lakhs)	
			Anticipated	Actual as on October 2012
1	Wayanad	Directly by Collector	1000	0
2	Thiruvananthapuram	Directly by Collector in urban areas	400	451
3	Kollam	Directly by Collector in urban areas	250	0
4		Directly by Collector in rural areas	650	0
5		Via Kerala Water Authority	500	225.79988
6		Via Ground Water Department	510	59.2516
7	Idukki	Via Kerala Water Authority & Ground Water Department	285.2	13.99613
8		Directly by Collector	749.7	3.38
Total			4395.9	753.42761

4.3. DROUGHT RELIEF MEASURES UNDERTAKEN/BEING UNDERTAKEN BY KERALA WATER AUTHORITY (KWA)

The State Government have already decided to construct temporary piped water supply in villages where drinking water supply is scarce. The Kerala Water Authority will make provisions temporary water supply in consultation with public health engineering, or rural development department, as the case may be. It could either be implemented by the agency responsible for water supply in the State or a local body. All temporary water supply schemes would be handed over to the village Panchayat for maintenance. Such a scheme can be taken for execution only when the village Panchayat passes a resolution to take over the scheme and maintain it after its completion.

Check dam works being undertaken by Kerala Water Authority consists of construction of a masonry embankment across a stream with surplussing arrangement (waste weirs, at suitable intervals). These works are undertaken to hold maximum runoff water to create temporary flooding in the stream with arrangements to drain water at suitable intervals. Such embankments depend on the slope of the nalla or off-stream and the quantity of water expected to flow. The impounding of water facilitates percolation of water into deeper soil and makes it possible to bring under cultivation the land under the bed of the nallas. The water released from these bunds is free from silt and very low in velocity and thus unable to cause erosion. Thus, water can be utilized optimally.

The particulars of drought relief works already been undertaken/being undertaken by the Kerala Water Authority in drought affected areas and the expenditure incurred are given in Table 8. Annexure 4 and Annexure 5 provides the details of the works initiated including the time required for completing the works and the certificate for the same from the Managing Director, Kerala Water Authority.

TABLE 8: ABSTRACT OF DROUGHT RELIEF MEASURES INITIATED BY KERALA WATER AUTHORITY

Sl. No	District	Number of Proposals	Amount (in Lakhs)
1	Thiruvananthapuram		
	Public Health Division, Thiruvananthapuram	113	1655.92

	Water Supply Division, Neyyattinkara	116	1473.1
	Water Supply Division, Attingal	144	2855.985
	Head Works Division, Aruvikkara	110	3387.64
	Sub Total	483	9372.65
2	Kollam	15	125.85
3	Idukki	26	127.22
4	Wayanad	165	504.14
	Total	689	10129.86

4.4. RELIEF & MITIGATION MEASURES IN AGRICULTURE & HORTICULTURE SECTOR

Paddy: Paddy is the major crop affected in the drought that witnessed considerable reduction in area in almost all districts. In general the Virippu crop has been delayed. The dry spell along with increase in temperature will also cause a significant decrease in productivity. The rice productivity will be severely affected due to the dry condition coupled with high temperature during the critical stage of tiller initiation. Further yield reduction is estimated as the dry spell and scanty rainfall will be continued during the pinnacle initiation stage. It is estimated that that there could be 35-40% decline in the rice productivity in the State. Another problem faced by many of the districts is the high acidity in the paddy fields due to the decrease in rainfall. Excessive weed growth is also reported in many districts due to the scarcity of water. Further, the delayed first crop will delay the second crop also.

Coconut: Moisture stress is felt in all the districts with low fertilizer consumption result in button shedding and immature nut fall.

Banana: The dry spell has resulted in splitting of banana stem and reduction in bunch size.

Pepper: Erratic berry setting and shortened spike length are noticed. 25 to 35 % reduction in yield is expected owing to deficit rainfall.

Vegetables: The rainfall deficit has affected the vegetable crops to a considerable extent, especially the cool season vegetables cultivated in Idukki District. There is considerable reduction in vegetable area as the rainfall has been delayed. Annexure 6 shows the details of the crops losses in the prescribed performa. Table 9 shows the losses incurred in each district and the assistance sought for each district.

TABLE 9: AGRICULTURAL LOSSES IN THIRUVANANATHAPURAM, KOLLAM, IDUKKI AND WAYANAD

Sl. No.	Name of affected district	Total agricultural area affected (ha)	Total agricultural area where crop loss is >50%	Out of (4) area belonging to SMF			Assistance sought for different categories of crops			Total assistance sought (Rs. in Lakhs)
				Rain fed	Irrigated	Perennial	Rain fed (Rs. 3000 x Col.5A)	Irrigated (Rs. 6000 x Col.5B)	Perennial (Rs. 8000 x Col.5C)	
	1	3	4	5A	5B	5C	6A	6B	6C	7 (6A+6B+6C)
1	Thiruvananthapuram	29508	24204	2404	0	21800	7212000	0	17440000	181612000
2	Kollam	5.11	5.11	0	5.11	0	0	30660	0	30660
5	Idukki	1835	1164	423.6	110	630.4	1270800	660000	5043200	6974000
8	Wayanad	49000	49000	4000	1000	44000	12000000	6000000	35200000	370000000
	TOTAL	80348.11	74373.11	6827.6	1115.11	66430.4	20482800	6690660	531443200	558616660

4.4.1. MEASURES FOR MITIGATION

Seed: Due to the scarcity of rainfall in the catchment area, the quantity of water stored in major dams meant for irrigation is very low and there will be storage for irrigation water the next Mundakal crop in about 1.0 lakhs hectares. Hence 8000MT short duration varieties will be required costing Rs. 20.8 crores which will be made available by the Kerala State Seed Development Authority. The State provision for contingency programme to meet NC is only Rs. 79 lakhs hence the balance amount of 20.0 crores is required.

Fertilizer: Usually, fertilizer use will be low during drought period. It was expected that there will be sufficient rains during the panicle initiation stage of paddy, and booster dose of fertilizer if applied at this stage, will be beneficial for the crop. Hence it is targeted for the use of 2475MT of urea and 835MT of MOP which will amount to Rs. 267 lakhs.

Alternate Crop: In the districts of Trivandrum and Kollam where continuous dry spell prevailed alternate crops like Ragi, Pulses, Sesamun are recommended. For raising alternate crops minimum ploughing to incorporate the previous crop debris, seed cost, providing life saving irrigation etc. requires approximately Rs. 15000/ha depending upon the crop. Thus a total amount of Rs. 3 crores will be required.

Credit Requirement: Kerala has a Debt Relief Commission (a quasi judicial body) under the Department of Agriculture which deals with farmers debts. The commission addresses debt grievances of farmers in the state. During the Kharif season in the district of Trivandrum, Kollam, Idukki and Wayanad Rs. 1414.26 crores availed by the farmers could not be repaid due to crop loss that occurred due to delay in monsoon. Approximately Rs. 142.5 crores will be required to waive the interest portion of agricultural short term loan.

Table 10 shows the total assistance sought for drought risk reduction in the agricultural sector.

TABLE 10: TOTAL DROUGHT RISK REDUCTION ASSISTANCE REQUIRED FOR THE AGRICULTURAL SECTOR IN THIRUVANANTHAPURAM, KOLLAM, IDUKKI AND WAYANAD

Sl. No	District	Amount (in Lakhs)
1	Claim for agricultural losses (input subsidy) as per Annexure 6 and Table 9	5586.16660
2	Kerala State Seed Development Authority for procuring short duration seed varieties	2000
3	Procurement of booster dose fertilizer	267
4	Cultivation of alternate crops	300
5	Waiver of loan interest to farmers as per Annexure 11	14250.00
	Total	22403.16660

4.5. RELIEF MEASURES IN ANIMAL HUSBANDRY SECTOR

The Department of Animal Husbandry is monitoring the availability of fodder, fodder prices, fodder cultivation, availability of water for fodder cultivation etc. in the State.

The following Drought relief measures are being organized:

- Increasing supply of fodder by redeployment of fodder from surplus districts
- Farms to get surplus fodder
- Fodder cultivation encouraged and incentives provided through Government schemes
- Fodder depots set up and the prices fixed at levels, which farmers can buy
- Cattle camps set up through the Government, NGOs and cooperative societies
- Water supply arranged for cattle camps

- Vaccination and other health measures organized for cattle

TABLE 11: DROUGHT RISK REDUCTION ASSISTANCE REQUIRED FOR THE ANIMAL HUSBANDARY SECTOR IN THIRUVANANTHAPURAM, KOLLAM, IDUKKI AND WAYANAD

Sl. No	District	Actual loss						Total (Rs. in Lakhs)
		Cows @Rs. 16400/cow	Calf @Rs. 10000/calf	Goat @Rs. 1650/Goat	Birds @Rs. 10000/Birds	Cattle Shed @Rs. 1250/shed	Fodder cost (in lakhs)	
1	Thiruvananthapuram	3	1	0	0	0	0	0.592
2	Wayanad	1	0	0	0	0	0	0.164
3	Idukki	6	4	4	20	28	0	1.80740
4	Kollam	0	0	0	0	0	1	1
	Total	10	5	4	20	28	1	3.5634

4.6. DROUGHT MITIGATION ACTIVITIES BY DEPARTMENT OF IRRIGATION

Even though the State of Kerala is blessed with 44 rivers, the rivers are small, whether considered in terms of length, breadth or annual stream flow. Out of the total rivers of Kerala, Chaliyar, Bharathapuzha, Periyar, and Pamba are relatively medium rivers, each more than 160 Km long. Even though the average annual rain fall in Kerala is the highest among the states of India of the order of 3055 mm, most of the rain water flows to the sea is unharnessed due to the steep terrain and rivers play a great role in carrying the flood flows to the sea.

The rivers of Kerala are too small that even the largest of them cannot find a place among the major Indian rivers. The largest river of Kerala, the Periyar has a catchment area of only less than 8% of the catchment area of the river Cauvery, which itself is considered to be a small river in India. The rivers flow fast, because of the hilly nature of the terrain and the short distance between the mountains and the sea. The rivers of Kerala have no deltas. Because of the small size, these rivers are more susceptible to environmental onslaughts.

In recent years the State is facing a trend of decreasing rainfall especially in the extreme Southern districts like the capital city of Thiruvananthapuram. The entire State will be experiencing incidence of drought in the coming months primarily due to weather anomalies and detrimental anthropogenic activities and land use practices. Also the annual rainfall especially in South Kerala is found decreasing. The State experiences seasonal drought every year during the summer. The summer water scarcity arises even in the years of normal rainfall. The decreasing rainfall over the State, late onset of monsoon and break in the monsoon rains may lead to drought situations in the State. This may adversely and directly affect the agriculture/cultivation of crops, acute water shortage which may even lead to famine. The change in the rainfall pattern, changes in the land and water management practices catalyzed with the special topographic features of the State is reducing the fresh water availability of the State during the summer season.

Droughts will have large dimension of social, economic and environmental impacts. Most of the irrigation projects in our State were constructed over a period of 30 years and these require constant maintenance and repairs for the effective functioning and optimum utilization of the water resources. Also, it is found necessary to concentrate on small and medium irrigation schemes since taking up and implementation of major irrigation projects is found to be practically difficult due to environment and land acquisition problems. In order to prevent severe drought in

the State, first of all it is necessary to increase the existing storage capacity of the reservoirs in order to accumulate the monsoon water. For this it is necessary to carry out the revamping of the major and medium irrigation projects in the State including the de-silting of the reservoirs. Figure 12 shows the record low water level of Anathodu dam with catchment in Idukki district in August 2012.

Dams, in general, were constructed to store the water in the rainy season and to release it in a controlled manner for irrigation, water supply and power generation. Construction of small dams/check dams for monsoon storage, raising of storage level of existing dams to accommodate more water and de-silting of existing dams to increase storage capacity can be effectively carried out to face acute water shortage in the State. Removal of silt and sediments from the reservoirs will help to accommodate excess water during monsoon seasons for controlling floods and to utilize this excess storage during the summer months.

Also construction of check dams/partially submerged barriers can be constructed in the river course at various places for storing excess water than required for irrigation purposes. The role of minor irrigation is quite significant and it occupies a prominent position in the Irrigation map of Kerala, due to its advantages over the other types of Irrigation. At present the irrigation department has 436 lift irrigation schemes under its control. All these LI Schemes has been taken up for a total revamping during the 11th Plan period under State's Plan and Non Plan funds. The 442 LI Schemes taken together has 42,848 ha of paddy fields as its ayacut. As these LI Schemes are solely depend on electrical energy for its pumping operations. The revamping work taken up during the 11th Plan period was mainly concentrated on the replacement and repair of the mechanical and electrical works connected with the Lift Irrigation Schemes. In addition the structures at the head works including pump house were also taken up for revamping. But due to the paucity of funds the distribution system of many of these LI Schemes could not be taken up for revamping. Majority of the canal system are in dilapidated condition and are in urgent need of repairs. The distribution system of the LI schemes is to be rectified in order to effectively distribute the water to the agriculture land during summer/water shortage periods.

Tanks have been the main source of irrigation in many parts of Kerala for centuries. The hydrological characteristic of the monsoon in Kerala necessitated the creation of storage facilities to hold the monsoon rainwater and utilize it later. With extraordinary engineering, managerial, and social skills, an extensive system of rainwater harvesting structures comprising of tanks and ponds had been built and maintained by the people for centuries. Many of these multiple use structures were the nerve centers for sustenance and livelihood of the rural communities. The tank rehabilitation had been aimed to increase agricultural production. The pond is recognized as having at least four different functions in irrigated agriculture - water conservation, soil conservation, flood control and protection of ecology of the surrounding area. The State will have to face acute water shortage and drought during the rest of the year and in the succeeding year and hence the storage capacity of the tanks and ponds are to be increased by removal of accumulated silt. The Irrigation Department has evolved the following short term mitigation measures to tackle the drought situation in the State. Table 12 provides the abstract of the works proposed for drought risk reduction by Dept. of Irrigation.

TABLE 12: ABSTRACT OF DROUGHT RISK REDUCTION ACTIVITIES PROPOSED BY DEPT. OF IRRIGATION IN THIRUVANANTHAPURAM, KOLLAM, IDUKKI AND WAYANAD

Sl. No	District	Types of Work	Amount (in Lakhs)
1	Thiruvananthapuram	Improvements to irrigation facilities	192.42
		Reformation and renovation of canals (Neyyar Irrigation Project)	16.66
2	Kollam	Improvements to Irrigation facilities	79.4
		Reformation and renovation of canals (Kallada Irrigation Project)	485.95
3	Idukki	Improvements to Irrigation facilities	99.56
4	Wayanad		49
Total			922.99

4.7. MITIGATION ACTIVITIES BY GROUND WATER DEPARTMENT

These are schemes providing safe and assured drinking water in many areas, where acute drinking water scarcity is felt. The Department make use of borewells as well as tubewells having sufficient yield for implementing these schemes. On completion, these schemes will be handed over to the beneficiaries for successive running.

Some of the Micro Water Supply Schemes completed during the last 10 years are defunct due to repairs. These were completed by the department and in long run became defunct. But due to financial burden, the beneficiaries solely depending on these could not meet the repair charges. By renovating such defunct schemes, drinking water problems in those areas can be tackled.

Artificial recharge is a means of augmenting the natural infiltration of surface water into a groundwater reservoir at a rate that vastly exceeds the rate in which it would occur naturally by modifying the natural movement of surface water/sub surface water by designing and constructing suitable civil construction techniques.

In Kerala about 27,000 borewells are fitted with hand pumps in the rural areas where acute drinking water scarcity is felt. Due to prolonged use, nearly 1,500 hand pumps require repairs yearly. An average Rs. 6,325/- is required for repairing each hand pumps and the estimated cost is Rs. 99 Lakhs. As a short-term measure this will effectively provide drinking water to people in acute water scarce areas, having no other source of water benefiting about 70,000 people. Table 13 provides the details of the drought mitigation works intitated by Ground Water Department. Annexure 8 provides the details of the works proposed.

TABLE 13: ABSTRACT OF DROUGHT RISK REDUCTION ACTIVITIES PROPOSED BY DEPT. OF GROUND WATER THIRUVANANTHAPURAM, KOLLAM AND IDUKKI

Sl. No	District	Types of Work	Amount (in Lakhs)
1	Thiruvananthapuram	Tube well/Borewell based schemes (Details in Annexure 8)	4.1
2	Kollam		12.33
3	Idukki		71.86969
Total			88.29969

4.8. DETAILS OF LOSSES INCURRED BY POWER SECTOR

The inflow received at the KSEB reservoirs was less by 40% of the anticipated inflow due to failure of south-west monsoon. The details of the inflow expected and the reduction in inflow due to failure of monsoon is detailed below. Table 14 shows the reduction in inflow due to failure of monsoon.

TABLE 14: REDUCTION OF INFLOW DUE TO FAILURE OF MONSOON

Month	Inflow expected (MU)	Inflow received (MU)	Reduction (MU)	% reduction
Jun-12	755.86	340.07	415.79	55.01
Jul-12	1513.72	726.85	786.87	51.98
Aug-12	1320.06	893.79	426.27	32.29
Sep-12	892.58	744.06	148.52	16.64
Oct (upto 6th)	309.00	109.00	200.00	64.72
Total	4791.22	2813.78	1977.44	41.27

The hydel generation targeted during the current year was about 6993 MU. As against the same, hydel generation possible would be as low as 5382.10 MU, resulting in a reduction of 1610.9 MU during the current financial year. The month wise details are given below. In order to meet the reduction in hydel generation due to failure of monsoon, KSEB has been procuring energy from costly thermal sources upto Rs 14.00 per unit. At an average rate of Rs 10/unit, the additional liability on KSEB would be about Rs 1610.90 crore due to the failure of monsoon. These losses are for the entire state and cannot be separated for each district. Table 15 shows the reduction in power generation due to drought. Annexure 9 provides the details of the losses incurred by KSEB due to drought.

TABLE 15: REDUCTION IN GENERATION DUE TO DROUGHT

Month	Targeted generation (MU)	Actual/anticipated (MU)	Reduction in energy (MU)	Estimate Cost for purchase of power (in Lakhs)
(1)	(2)	(3)	(4)= (2)-(3)	@Rs. 10/unit
Apr-12	621.2	550.6	70.6	7060
May-12	631.9	662.9	-31.1	-3110
Jun-12	495.4	502.6	-7.3	-730
Jul-12	519.3	423.3	95.9	9590
Aug-12	581.8	425.3	156.5	15650
Sep-12	598.4	500.4	98.1	9810
Oct-12	603.8	310.0	293.8	29380
Nov-12	525.1	330.0	195.1	19510
Dec-12	554.9	372.0	182.9	18290
Jan-13	566.0	403.0	163.0	16300
Feb-13	570.4	406.0	164.4	16440
Mar-13	725.0	496.0	229.0	22900
Total	6993.0	5382.1	1610.9	161090

4.9. HEALTH, HYGIENE AND AWARENESS PROGRAMMES

Thiruvananthapuram and Kollam have 21 coastal villages frequently affected by various communicable diseases especially vector borne and water borne diseases like dengue, diarrhoea and hepatitis. After several years several cases of Cholera was reported from Thiruvananthapuram. Further, the indoor storage of rationed water provides breeding places for aedes mosquitos that spread dengue. The major reason for this state of affairs is the non availability of drinking water in these thickly populated villages mostly inhabited by poor fisher folk. In spite of the best efforts by the Health Department the diseases are fastly spreading.

Figure 13, Figure 14 and Figure 15 shows the village wise incidence of Dengue fever in Thiruvananthapuram district. From these figures it can be seen that July recorded the highest incidence of dengue and the newly reported dengue cases per village tends to remain as high as 154 in the month of August.

These demands additional intervention to ensure health and hygiene of the community. The Department of Health Services hence intends to supply at least 5 ltrs of safe water to each household.

Even with the availability of safe drinking water, health education efforts should continue to improve the overall hygiene and sanitation in these areas. The health department has been giving intense health education messages regarding safe drinking water practices and proper water storage, environmental hygiene. Special campaigns in schools, local media etc. have to be round the years affairs. Establishing Reverse Osmosis water treatment plants in the health institutions situated in these areas is deemed an urgent priority for which funds from other sources are not readily available. Funds from NRHM have already been committed for other activities planned therein and hence no other sources of funds are available for immediately establishing these. Annexure 10 provides the details of the works proposed. Table 16 provides the abstract of the works proposed by Dept. of Health Services.

TABLE 16: ABSTRACT OF DROUGHT RISK REDUCTION ACTIVITIES PROPOSED BY DEPT. HEALTH SERVICES IN THIRUVANANTHAPURAM AND KOLLAM

Sl. No	District	Types of Work	Amount (in Lakhs)
1	Thiruvananthapuram	25 Reverse Osmosis Plants	250
2	Kollam	20 Reverse Osmosis Plants	200
3	Health education	Poster campaigns	50
4	Epidemic control	Door to door campaign (Already Expended)	5
Total			505

Anathodu Reservoir, August 2012



FIGURE 12: WATER LEVEL IN ANATHODU DAM ON AUGUST 2012

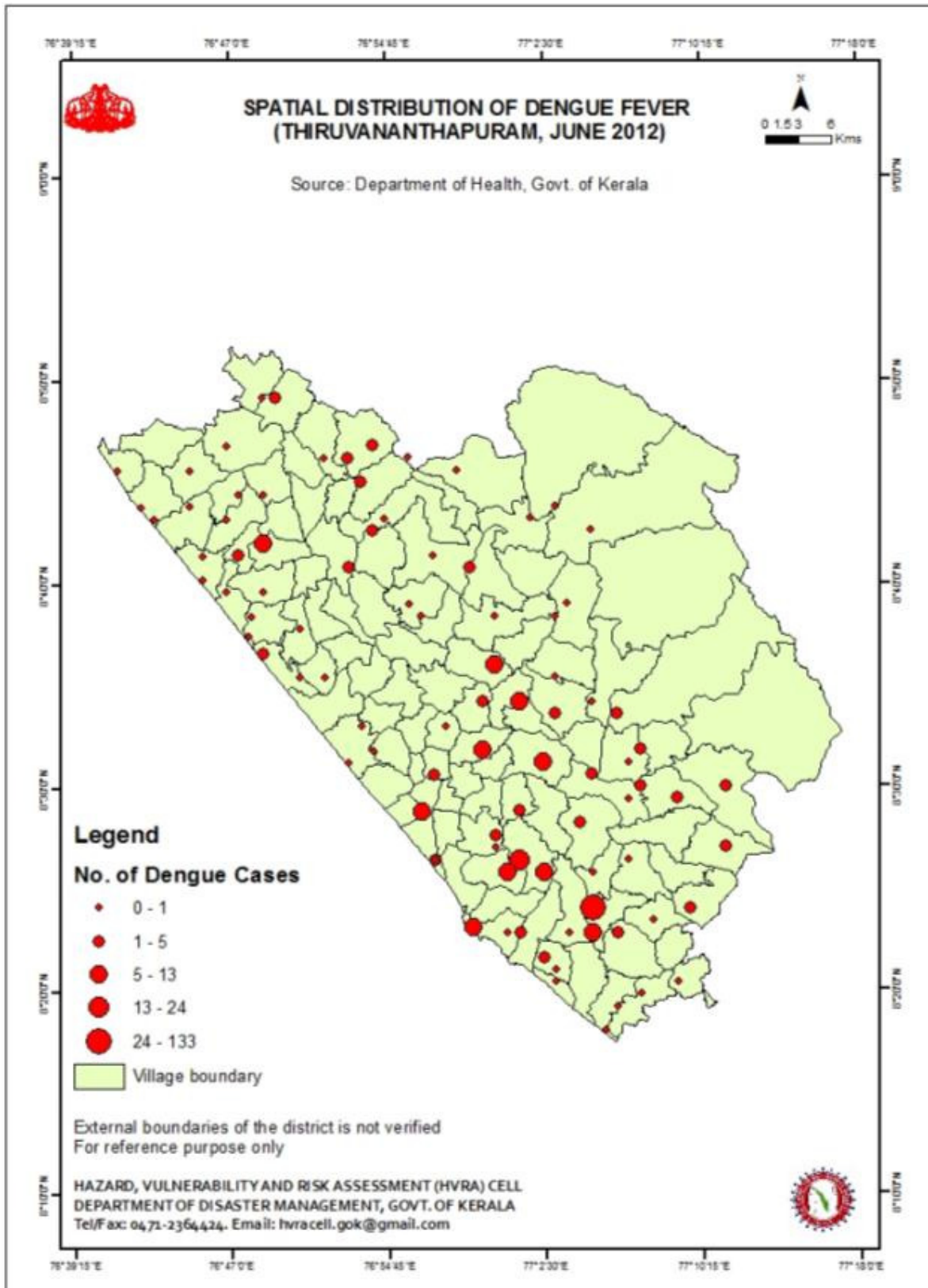


FIGURE 13: VILLAGE WISE INCIDENCE OF DENGUE FEVER IN THIRUVANANTHAPURAM AS ON JUNE 2012

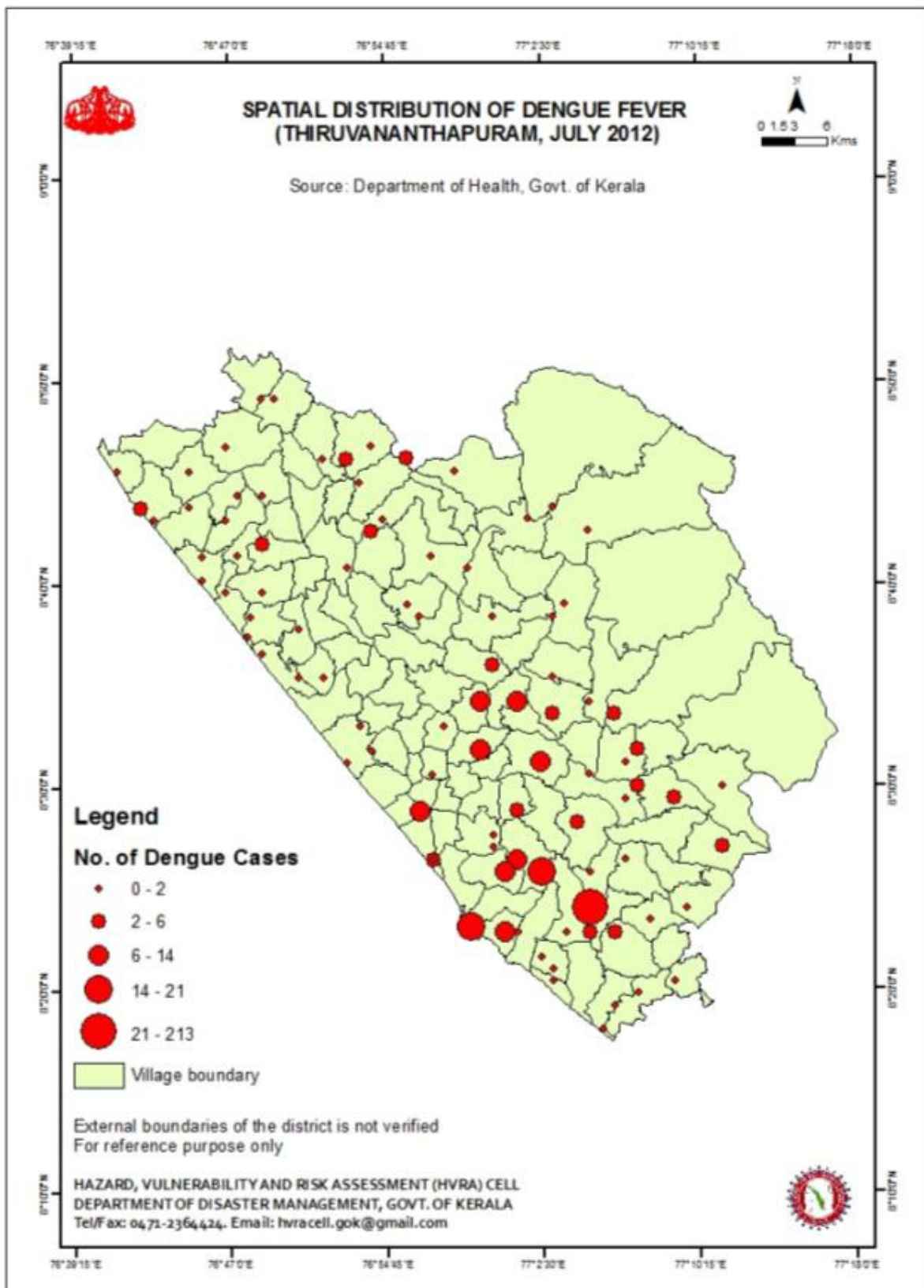


FIGURE 14: VILLAGE WISE INCIDENCE OF DENGUE FEVER IN THIRUVANANTHAPURAM AS ON JULY 2012

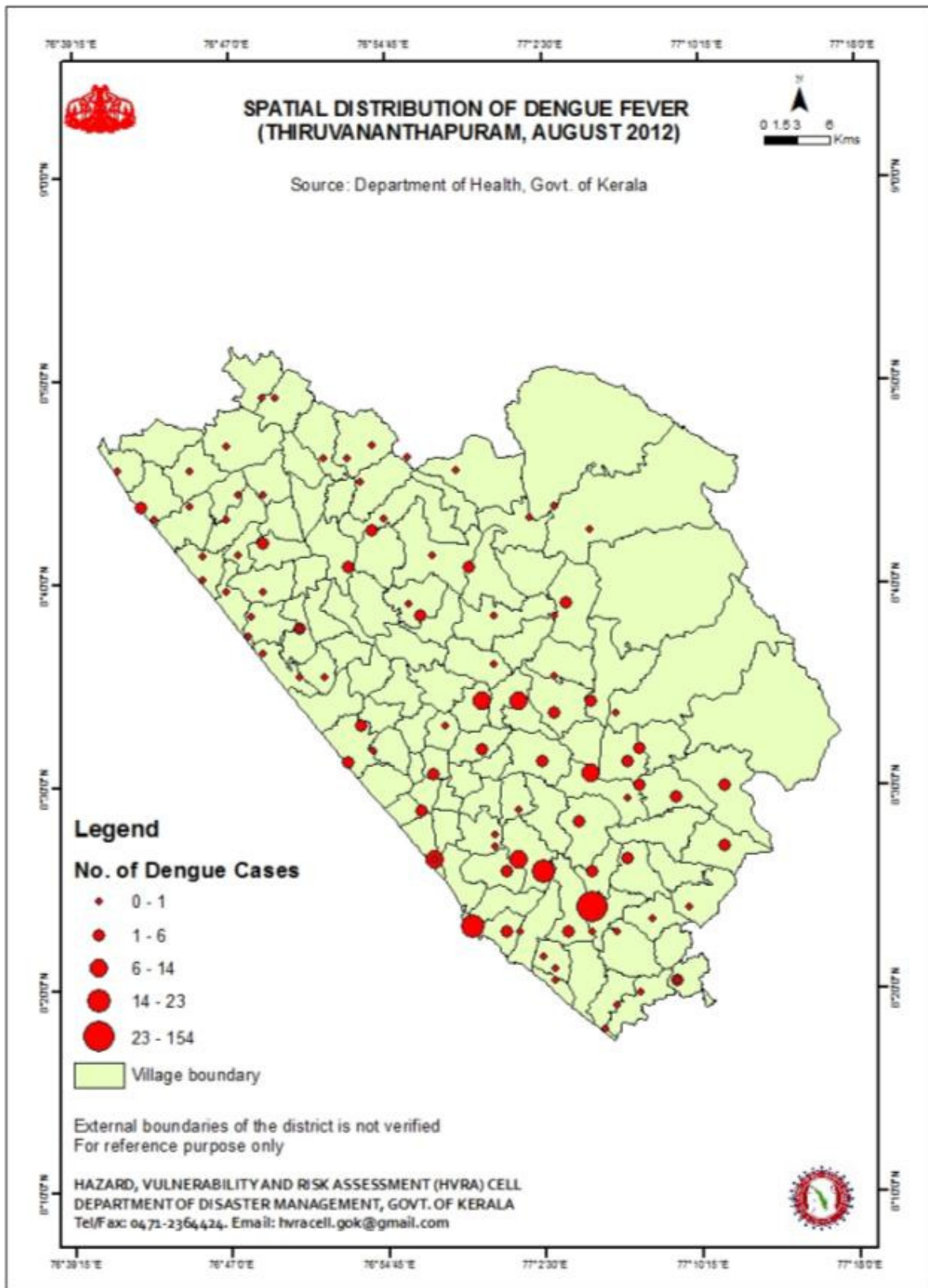


FIGURE 15: VILLAGE WISE INCIDENCE OF DENGUE FEVER IN THIRUVANANTHAPURAM AS ON AUGUST 2012

ANNEXURE 1: VILLAGES WITHOUT PERENNIAL WATER BODIES (TOP PRIORITY VILLAGES; 10 SLIGHTLY DROUGHT PRONE; 313 MODERATELY DROUGHT PRONE AND 142 SEVERELY DROUGHT PRONE)

Sl. No	Village	Taluk	District	Drought Class
1	Porkady	Kasaragod	Kasargod	Moderate drought
2	Kumjathur	Kasaragod	Kasargod	Moderate drought
3	Padre	Kasaragod	Kasargod	Moderate drought
4	Nettanige	Kasaragod	Kasargod	Moderate drought
5	Delampady	Kasaragod	Kasargod	Moderate drought
6	Bela	Kasaragod	Kasargod	Moderate drought
7	Bandadka	Kasaragod	Kasargod	Moderate drought
8	Karivedakam	Kasaragod	Kasargod	Moderate drought
9	Panathady	Hosdurg	Kasargod	Moderate drought
10	Bare	Hosdurg	Kasargod	Moderate drought
11	Balal	Hosdurg	Kasargod	Moderate drought
12	Belur	Hosdurg	Kasargod	Moderate drought
13	Parappa	Hosdurg	Kasargod	Moderate drought
14	Thayannur	Hosdurg	Kasargod	Moderate drought
15	Ambalathara	Hosdurg	Kasargod	Moderate drought
16	Palavayal	Hosdurg	Kasargod	Moderate drought
17	Balla	Hosdurg	Kasargod	Moderate drought
18	Hosdrug	Hosdurg	Kasargod	Moderate drought
19	Timiri	Hosdurg	Kasargod	Moderate drought
20	Kodakkad	Hosdurg	Kasargod	Moderate drought
21	Maniyat	Hosdurg	Kasargod	Moderate drought
22	Thirumeni	Taliparamba	Kannur	Moderate drought
23	Peringome	Taliparamba	Kannur	Moderate drought
24	Vellad	Taliparamba	Kannur	Moderate drought
25	Alappadamba	Taliparamba	Kannur	Moderate drought
26	Vellora	Taliparamba	Kannur	Moderate drought
27	Perinthatta	Taliparamba	Kannur	Moderate drought
28	Naduvil	Taliparamba	Kannur	Moderate drought
29	Chuzhali	Taliparamba	Kannur	Moderate drought
30	Panniyur	Taliparamba	Kannur	Moderate drought
31	Nidiyenga	Taliparamba	Kannur	Moderate drought
32	Mayyil	Taliparamba	Kannur	Moderate drought
33	Koodali	Tellichery	Kannur	Moderate drought
34	Thillankeri	Tellichery	Kannur	Moderate drought
35	Kanhiod	Kannur	Kannur	Moderate drought
36	Azhikkod South	Kannur	Kannur	Moderate drought
37	Sivapuram	Tellichery	Kannur	Moderate drought
38	Tolambra	Tellichery	Kannur	Moderate drought
39	Pallikunnu	Kannur	Kannur	Moderate drought
40	Irriveri	Kannur	Kannur	Moderate drought
41	Chembiold	Kannur	Kannur	Moderate drought
42	Vellarveli	Tellichery	Kannur	Moderate drought
43	Kannur-II	Kannur	Kannur	Moderate drought
44	Kolayad	Tellichery	Kannur	Moderate drought
45	Kannavam	Tellichery	Kannur	Moderate drought

46	Manamteri	Tellichery	Kannur	Moderate drought
47	Kuthuparamba	Tellichery	Kannur	Moderate drought
48	Kadambur	Kannur	Kannur	Moderate drought
49	Kottayam	Tellichery	Kannur	Moderate drought
50	Eruvatti	Tellichery	Kannur	Moderate drought
51	Koravallur	Tellichery	Kannur	Moderate drought
52	Puthur	Tellichery	Kannur	Moderate drought
53	Panur	Tellichery	Kannur	Moderate drought
54	Vilangad	Vadakara	Kozhikkode	Moderate drought
55	Thinur	Vadakara	Kozhikkode	Moderate drought
56	Kavilumpara	Vadakara	Kozhikkode	Moderate drought
57	Azhiyur	Vadakara	Kozhikkode	Moderate drought
58	Kunummal	Vadakara	Kozhikkode	Moderate drought
59	Purameri	Vadakara	Kozhikkode	Moderate drought
60	Ayancheri	Vadakara	Kozhikkode	Moderate drought
61	Kottapalli	Vadakara	Kozhikkode	Moderate drought
62	Nochad	Quilandy	Kozhikkode	Moderate drought
63	Meppayur	Quilandy	Kozhikkode	Moderate drought
64	Kozhukallur	Quilandy	Kozhikkode	Moderate drought
65	Kedavoor	Kozhikkode	Kozhikkode	Moderate drought
66	Koorachundu	Quilandy	Kozhikkode	Moderate drought
67	Nellipoyil	Kozhikkode	Kozhikkode	Moderate drought
68	Kottur	Quilandy	Kozhikkode	Moderate drought
69	Unnikulam	Quilandy	Kozhikkode	Moderate drought
70	Sivapuram	Quilandy	Kozhikkode	Moderate drought
71	Nanminda	Kozhikkode	Kozhikkode	Moderate drought
72	Narikuni	Kozhikkode	Kozhikkode	Moderate drought
73	Kakkur	Kozhikkode	Kozhikkode	Moderate drought
74	Puthiyangadi	Kozhikkode	Kozhikkode	Moderate drought
75	Chelavoor	Kozhikkode	Kozhikkode	Moderate drought
76	Kuttikattur	Kozhikkode	Kozhikkode	Moderate drought
77	Nellicode	Kozhikkode	Kozhikkode	Moderate drought
78	Onchiyom	Vadakara	Kozhikkode	Slightly Drought
79	Chorode	Vadakara	Kozhikkode	Slightly Drought
80	Villyappalli	Vadakara	Kozhikkode	Slightly Drought
81	Padichira	Sulthan Bathery	Wayanad	Severe drought
82	Kidangad	Sulthan Bathery	Wayanad	Severe drought
83	Irulam	Sulthan Bathery	Wayanad	Severe drought
84	Nadavayal	Sulthan Bathery	Wayanad	Severe drought
85	Kaniyambetta	Vythiri	Wayanad	Severe drought
86	Poothadi	Sulthan Bathery	Wayanad	Severe drought
87	Purakkadi	Sulthan Bathery	Wayanad	Severe drought
88	Kuppady	Sulthan Bathery	Wayanad	Severe drought
89	Krishnagiri	Sulthan Bathery	Wayanad	Severe drought
90	Sulthan Bathery	Sulthan Bathery	Wayanad	Severe drought
91	Muttil North	Vythiri	Wayanad	Severe drought
92	Nenmeri	Sulthan Bathery	Wayanad	Severe drought
93	Ambalavayal	Sulthan Bathery	Wayanad	Severe drought

94	Muttill South	Vythiri	Wayanad	Severe drought
95	Kalpetta	Vythiri	Wayanad	Severe drought
96	Cheeral	Sulthan Bathery	Wayanad	Severe drought
97	Thrikkaipetta	Vythiri	Wayanad	Severe drought
98	Thomattuchal	Sulthan Bathery	Wayanad	Severe drought
99	Kottappady	Vythiri	Wayanad	Severe drought
100	Kurrathidavaka	Vythiri	Wayanad	Moderate drought
101	Vettillappara	Eranad	Malappuram	Moderate drought
102	Tiruvali	Nilambur	Malappuram	Moderate drought
103	Muthuvallur	Eranad	Malappuram	Moderate drought
104	Pulikkal	Eranad	Malappuram	Moderate drought
105	Kuzhimanna	Eranad	Malappuram	Moderate drought
106	Cherukavu	Eranad	Malappuram	Moderate drought
107	Karakunnu	Eranad	Malappuram	Moderate drought
108	Porur	Nilambur	Malappuram	Moderate drought
109	Elankur	Eranad	Malappuram	Moderate drought
110	Pulppatta	Eranad	Malappuram	Moderate drought
111	Pallikkal	Tirurngadi	Malappuram	Moderate drought
112	Kondotti	Eranad	Malappuram	Moderate drought
113	Trikalangod	Eranad	Malappuram	Moderate drought
114	Morrayur	Eranad	Malappuram	Moderate drought
115	Chembrasserri	Eranad	Malappuram	Moderate drought
116	Nediyirappa	Eranad	Malappuram	Moderate drought
117	Narukara	Eranad	Malappuram	Moderate drought
118	Pukkottur	Eranad	Malappuram	Moderate drought
119	Peruvallur	Tirurngadi	Malappuram	Moderate drought
120	Kannamangalam	Tirurngadi	Malappuram	Moderate drought
121	Mankada	Perinthalmanna	Malappuram	Moderate drought
122	Vadakkangara	Perinthalmanna	Malappuram	Moderate drought
123	Nannambra	Tirurngadi	Malappuram	Moderate drought
124	Kariyavattam	Perinthalmanna	Malappuram	Moderate drought
125	Vettathur	Perinthalmanna	Malappuram	Moderate drought
126	Valambur	Perinthalmanna	Malappuram	Moderate drought
127	Puzhakkattiri	Perinthalmanna	Malappuram	Moderate drought
128	Kottakkal	Tirur	Malappuram	Moderate drought
129	Arakkuparamba	Perinthalmanna	Malappuram	Moderate drought
130	Perinthalmanna	Perinthalmanna	Malappuram	Moderate drought
131	Perumanna	Tirur	Malappuram	Moderate drought
132	Ozhur	Tirur	Malappuram	Moderate drought
133	Thazhakkode	Perinthalmanna	Malappuram	Moderate drought
134	Angadipuram	Perinthalmanna	Malappuram	Moderate drought
135	Padayikkara	Perinthalmanna	Malappuram	Moderate drought
136	Ponmundam	Tirur	Malappuram	Moderate drought
137	Malmuri	Tirur	Malappuram	Moderate drought
138	Marakkara	Tirur	Malappuram	Moderate drought
139	Kalpakancheri	Tirur	Malappuram	Moderate drought
140	Tanalur	Tirur	Malappuram	Moderate drought
141	Valavannur	Tirur	Malappuram	Moderate drought

142	Edayur	Tirur	Malappuram	Moderate drought
143	Kurumbathur	Tirur	Malappuram	Moderate drought
144	Niramarudur	Tirur	Malappuram	Moderate drought
145	Athavanad	Tirur	Malappuram	Moderate drought
146	Kattipparuthi	Tirur	Malappuram	Moderate drought
147	Ananthavur	Tirur	Malappuram	Moderate drought
148	Vattamkulam	Ponnani	Malappuram	Moderate drought
149	Alankad	Ponnani	Malappuram	Moderate drought
150	Sholayur	Mannarkad	Palakkad	Moderate drought
151	Kottoppadam-III	Mannarkad	Palakkad	Moderate drought
152	Palakkayam	Mannarkad	Palakkad	Moderate drought
153	Kottoppadam-II	Mannarkad	Palakkad	Moderate drought
154	Vilayur	Ottappalam	Palakkad	Moderate drought
155	Kadambazhipuram-I	Ottappalam	Palakkad	Moderate drought
156	Sreekrishnapuram-II	Ottappalam	Palakkad	Moderate drought
157	Trikkaderi-II	Ottappalam	Palakkad	Moderate drought
158	Kongad-I	Palakkad	Palakkad	Moderate drought
159	Koppam	Ottappalam	Palakkad	Moderate drought
160	Komgad-II	Palakkad	Palakkad	Moderate drought
161	Mundur-II	Palakkad	Palakkad	Moderate drought
162	Trikkaderi-I	Ottappalam	Palakkad	Moderate drought
163	Vallappuzha	Ottappalam	Palakkad	Moderate drought
164	Chalavara	Ottappalam	Palakkad	Moderate drought
165	Ambalapara-II	Ottappalam	Palakkad	Moderate drought
166	Anangunadi	Ottappalam	Palakkad	Moderate drought
167	Ambalapara-I	Ottappalam	Palakkad	Moderate drought
168	Ongallur-I	Ottappalam	Palakkad	Moderate drought
169	Mannur	Palakkad	Palakkad	Moderate drought
170	Kappur	Ottappalam	Palakkad	Moderate drought
171	Lakkidiperur-I	Ottappalam	Palakkad	Moderate drought
172	Vaniyamkulam-I	Ottappalam	Palakkad	Moderate drought
173	Maratharad	Palakkad	Palakkad	Moderate drought
174	Nagalasseri	Ottappalam	Palakkad	Moderate drought
175	Challisseri	Ottappalam	Palakkad	Moderate drought
176	Thirumittakod-II	Ottappalam	Palakkad	Moderate drought
177	Mathur-I	Alathur	Palakkad	Moderate drought
178	Kuzhalmannam-II	Alathur	Palakkad	Moderate drought
179	Kuthanur-II	Alathur	Palakkad	Moderate drought
180	Kuthanur-I	Alathur	Palakkad	Moderate drought
181	Kuzhalmannam-I	Alathur	Palakkad	Moderate drought
182	Thenkurussi-I	Alathur	Palakkad	Moderate drought
183	Koduvayur-I	Chittur	Palakkad	Moderate drought
184	Thenkurussi-II	Alathur	Palakkad	Moderate drought
185	Pudunagaram	Chittur	Palakkad	Moderate drought
186	Koduvayur-II	Chittur	Palakkad	Moderate drought
187	Pattancherry	Chittur	Palakkad	Moderate drought
188	Kannambra-I	Alathur	Palakkad	Moderate drought
189	Ayloor	Chittur	Palakkad	Moderate drought

190	Thiruvazhiyad	Chittur	Palakkad	Moderate drought
191	Kairady	Chittur	Palakkad	Moderate drought
192	Arangottukara	Thalappally	Thrissur	Moderate drought
193	Thalassery	Thalappally	Thrissur	Moderate drought
194	Pilakkad	Thalappally	Thrissur	Moderate drought
195	Thichur	Thalappally	Thrissur	Moderate drought
196	Varavoor	Thalappally	Thrissur	Moderate drought
197	Thrissur	Thalappally	Thrissur	Moderate drought
198	Perumpilavu	Thalappally	Thrissur	Moderate drought
199	Karikkad	Thalappally	Thrissur	Moderate drought
200	Pazhinji	Thalappally	Thrissur	Moderate drought
201	Chelakkode	Thalappally	Thrissur	Moderate drought
202	Chiramangad	Thalappally	Thrissur	Moderate drought
203	Akathiyoor	Thalappally	Thrissur	Moderate drought
204	Vellarakkad	Thalappally	Thrissur	Moderate drought
205	Pulakkode	Thalappally	Thrissur	Moderate drought
206	Porkalam	Thalappally	Thrissur	Moderate drought
207	Mangad	Thalappally	Thrissur	Moderate drought
208	Pangrappilly	Thalappally	Thrissur	Moderate drought
209	Chowannur	Thalappally	Thrissur	Moderate drought
210	Vadakkekad	Chavakkad	Thrissur	Moderate drought
211	Anjur	Thalappally	Thrissur	Moderate drought
212	Kunnamkullam	Thalappally	Thrissur	Moderate drought
213	Puthuruthy	Thalappally	Thrissur	Moderate drought
214	Vennur	Thalappally	Thrissur	Moderate drought
215	Velur	Thalappally	Thrissur	Moderate drought
216	Chemmanthatta	Thalappally	Thrissur	Moderate drought
217	Mundathikode	Thalappally	Thrissur	Moderate drought
218	Vailathur	Chavakkad	Thrissur	Moderate drought
219	Kanaipayyur	Thalappally	Thrissur	Moderate drought
220	Elanad	Thalappally	Thrissur	Moderate drought
221	Thekkumkara	Thalappally	Thrissur	Moderate drought
222	Peringandoor	Thalappally	Thrissur	Moderate drought
223	Minalur	Thalappally	Thrissur	Moderate drought
224	Arthat	Thalappally	Thrissur	Moderate drought
225	Pookode	Chavakkad	Thrissur	Moderate drought
226	Kiralur	Thalappally	Thrissur	Moderate drought
227	Thangaloor	Thrissur	Thrissur	Moderate drought
228	Tringappurom	Chavakkad	Thrissur	Moderate drought
229	Kandanassery	Thalappally	Thrissur	Moderate drought
230	Kaiparamba	Thrissur	Thrissur	Moderate drought
231	Velappaya	Thrissur	Thrissur	Moderate drought
232	Killannur	Thrissur	Thrissur	Moderate drought
233	Avannur	Thrissur	Thrissur	Moderate drought
234	Thaikkad	Chavakkad	Thrissur	Moderate drought
235	Choolissery	Thrissur	Thrissur	Moderate drought
236	Kolazhy	Thrissur	Thrissur	Moderate drought
237	Pattore	Thrissur	Thrissur	Moderate drought

238	Kurichikkara	Thrissur	Thrissur	Moderate drought
239	Brahmakulam	Chavakkad	Thrissur	Moderate drought
240	Kuttoor	Thrissur	Thrissur	Moderate drought
241	Viyyur	Thrissur	Thrissur	Moderate drought
242	Vilrattam	Thrissur	Thrissur	Moderate drought
243	Nettissery	Thrissur	Thrissur	Moderate drought
244	Punkunnam	Thrissur	Thrissur	Moderate drought
245	Perungavu	Thrissur	Thrissur	Moderate drought
246	Chmvukavu	Thrissur	Thrissur	Moderate drought
247	Mannamangalam	Thrissur	Thrissur	Moderate drought
248	Ollur	Thrissur	Thrissur	Moderate drought
249	Edakkunni	Thrissur	Thrissur	Moderate drought
250	Avanissery	Thrissur	Thrissur	Moderate drought
251	Kizhakkummuri	Thrissur	Thrissur	Moderate drought
252	Vellikuangara	Mukundapuram	Thrissur	Moderate drought
253	Kodakara	Mukundapuram	Thrissur	Moderate drought
254	Kodassery	Mukundapuram	Thrissur	Moderate drought
255	Kallettumkara	Mukundapuram	Thrissur	Moderate drought
256	Kuttichira	Mukundapuram	Thrissur	Moderate drought
257	Kadappashery	Mukundapuram	Thrissur	Moderate drought
258	Perambra	Mukundapuram	Thrissur	Moderate drought
259	Potta	Mukundapuram	Thrissur	Moderate drought
260	Thazhakkad	Mukundapuram	Thrissur	Moderate drought
261	Vellokkara	Mukundapuram	Thrissur	Moderate drought
262	Kottanellur	Mukundapuram	Thrissur	Moderate drought
263	Koolimuttom	Kodungathur	Thrissur	Moderate drought
264	Kizhakkummuri	Mukundapuram	Thrissur	Moderate drought
265	Muringoor Thekkummuri	Mukundapuram	Thrissur	Moderate drought
266	Padinjarevemballur	Kodungathur	Thrissur	Moderate drought
267	Edavilengu	Kodungathur	Thrissur	Moderate drought
268	Kuruviassery	Mukundapuram	Thrissur	Moderate drought
269	Mullurkara	Thalappally	Thrissur	Slightly Drought
270	Thonnurkara	Thalappally	Thrissur	Slightly Drought
271	Chelakkara	Thalappally	Thrissur	Slightly Drought
272	Kurumala	Thalappally	Thrissur	Slightly Drought
273	Karumathra	Thalappally	Thrissur	Slightly Drought
274	Viruppakka	Thalappally	Thrissur	Slightly Drought
275	Parlukad	Thalappally	Thrissur	Slightly Drought
276	Mukkannur	Aluva	Ernakulam	Moderate drought
277	Manjapra	Aluva	Ernakulam	Moderate drought
278	Thuravoor	Aluva	Ernakulam	Moderate drought
279	Vengoor West	Kunnathunael	Ernakulam	Moderate drought
280	Vengoor	Kunnathunael	Ernakulam	Moderate drought
281	Kottapadi	Kothimangalam	Ernakulam	Moderate drought
282	Perumbaroor	Kunnathunael	Ernakulam	Moderate drought
283	Asamannoor	Kunnathunael	Ernakulam	Moderate drought
284	Rayamangolam	Kunnathunael	Ernakulam	Moderate drought
285	Vengola	Kunnathunael	Ernakulam	Moderate drought

286	Trikariyoor	Kothimangalam	Errnakulam	Moderate drought
287	Vazhakkulom	Kunnathunael	Errnakulam	Moderate drought
288	Kuttamangalam	Kothimangalam	Errnakulam	Moderate drought
289	Arakkapady	Kunnathunael	Errnakulam	Moderate drought
290	Iramalloor	Kothimangalam	Errnakulam	Moderate drought
291	Kizhakkomsalam	Kunnathunael	Errnakulam	Moderate drought
292	Pattimattom	Kunnathunael	Errnakulam	Moderate drought
293	Irapuram	Kunnathunael	Errnakulam	Moderate drought
294	Mulavur	Muvattupuzha	Errnakulam	Moderate drought
295	Mazhuvannoor	Kunnathunael	Errnakulam	Moderate drought
296	POthanikadu	Kothimangalam	Errnakulam	Moderate drought
297	Kunnathinad	Kunnathunael	Errnakulam	Moderate drought
298	Vadavcode	Kunnathunael	Errnakulam	Moderate drought
299	Onakkur	Muvattupuzha	Errnakulam	Moderate drought
300	Thirumarady	Muvattupuzha	Errnakulam	Moderate drought
301	Kanayannur	Kanayannur	Errnakulam	Moderate drought
302	Palakuzha	Muvattupuzha	Errnakulam	Moderate drought
303	Edakkattuvayal	Kanayannur	Errnakulam	Moderate drought
304	Koothattukulam	Muvattupuzha	Errnakulam	Moderate drought
305	Elanji	Muvattupuzha	Errnakulam	Moderate drought
306	Kaipattur	Kanayannur	Errnakulam	Moderate drought
307	Kulayettikara	Kanayannur	Errnakulam	Moderate drought
308	Cherdhala South	Cherthala	Alapuzha	Severe Drought
309	Padhirappally	Ambalapuzha	Alapuzha	Severe Drought
310	Ala	Chengannur	Alapuzha	Severe Drought
311	Muthukalom	Karthikapally	Alapuzha	Severe Drought
312	Thekkekara	Mavelikara	Alapuzha	Severe Drought
313	Perungala	Mavelikara	Alapuzha	Severe Drought
314	Chusakkara	Mavelikara	Alapuzha	Severe Drought
315	Palamel	Mavelikara	Alapuzha	Severe Drought
316	Kattanam	Mavelikara	Alapuzha	Severe Drought
317	Bharanikavu	Mavelikara	Alapuzha	Severe Drought
318	Thamarakulom	Mavelikara	Alapuzha	Severe Drought
319	Perumbalam	Cherthala	Alapuzha	Moderate drought
320	Kanjikuzha	Cherthala	Alapuzha	Moderate drought
321	Marainkulam North	Cherthala	Alapuzha	Moderate drought
322	Munnilavu	Meenachil	Kottayam	Severe drought
323	Poonjar Vadakkekara	Meenachil	Kottayam	Severe drought
324	Vakdhanam	Changanassery	Kottayam	Severe drought
325	Thottakkadu	Changanassery	Kottayam	Severe drought
326	Karukachal	Changanassery	Kottayam	Severe drought
327	Nedumkunnam	Changanassery	Kottayam	Severe drought
328	Madappalli	Changanassery	Kottayam	Severe drought
329	Chettiruzha	Changanassery	Kottayam	Severe drought
330	Thrikodathanam	Changanassery	Kottayam	Severe drought
331	Paippad	Changanassery	Kottayam	Severe drought
332	Veliyannur	Meenachil	Kottayam	Moderate drought
333	Ramapuram	Meenachil	Kottayam	Moderate drought

334	Kadanad	Meenachil	Kottayam	Moderate drought
335	Monippally	Meenachil	Kottayam	Moderate drought
336	Neezhoor	Vaikom	Kottayam	Moderate drought
337	Melukavu	Meenachil	Kottayam	Moderate drought
338	Uzhavoor	Meenachil	Kottayam	Moderate drought
339	Kuravilangadu	Meenachil	Kottayam	Moderate drought
340	Kurichithanam	Meenachil	Kottayam	Moderate drought
341	Vallichira	Meenachil	Kottayam	Moderate drought
342	Elackad	Meenachil	Kottayam	Moderate drought
343	Thekkoy	Meenachil	Kottayam	Moderate drought
344	Poonjar Nadubhagam	Meenachil	Kottayam	Moderate drought
345	Poonjar Thekkara	Meenachil	Kottayam	Moderate drought
346	Elikulam	Kanjirapally	Kottayam	Moderate drought
347	Chengalam East	Kottayam	Kottayam	Moderate drought
348	Elamkulam	Kanjirapally	Kottayam	Moderate drought
349	Anikad	Kottayam	Kottayam	Moderate drought
350	Pampady	Kottayam	Kottayam	Moderate drought
351	Vazhur	Changanassery	Kottayam	Moderate drought
352	Meenadom	Kottayam	Kottayam	Moderate drought
353	Kangazhu	Changanassery	Kottayam	Moderate drought
354	Kannan devan hills	Devikulam	Idukki	Severe Drought
355	Pallivasal	Devikulam	Idukki	Severe Drought
356	Anaviratty	Devikulam	Idukki	Severe Drought
357	Chadhuramgapara	Udumbonchola	Idukki	Severe Drought
358	Karimannur	Todupuzha	Idukki	Severe Drought
359	Purapuzha	Todupuzha	Idukki	Severe Drought
360	Pampadumpara	Udumbonchola	Idukki	Severe Drought
361	Kattappana	Udumbonchola	Idukki	Severe Drought
362	Vagomom	Peermed	Idukki	Severe Drought
363	Anakara	Udumbonchola	Idukki	Severe Drought
364	Kottakamboor	Devikulam	Idukki	Moderate drought
365	Vattavada	Devikulam	Idukki	Moderate drought
366	Vandanmettu	Udumbonchola	Idukki	Moderate drought
367	Chakkupallam	Udumbonchola	Idukki	Moderate drought
368	Peernade	Peermed	Idukki	Moderate drought
369	Kynnamthanam	Mallappally	Pathanamthitta	Severe drought
370	Perumpetty	Mallappally	Pathanamthitta	Severe drought
371	Ezhumattoor	Mallappally	Pathanamthitta	Severe drought
372	Thelloor	Mallappally	Pathanamthitta	Severe drought
373	Naranganam	Kozhenchery	Pathanamthitta	Severe drought
374	Mylapra	Kozhenchery	Pathanamthitta	Severe drought
375	Kidangannur	Kozhenchery	Pathanamthitta	Severe drought
376	Elanthur	Kozhenchery	Pathanamthitta	Severe drought
377	V.Kottayam	Kozhenchery	Pathanamthitta	Severe drought
378	Angadickal	Adoor	Pathanamthitta	Severe drought
379	Kodumon	Adoor	Pathanamthitta	Severe drought
380	Adoor	Adoor	Pathanamthitta	Severe drought
381	Koodal	Adoor	Pathanamthitta	Severe drought

382	Peringanad	Adoor	Pathanamthitta	Severe drought
383	Kalanjoor	Adoor	Pathanamthitta	Severe drought
384	Pallickal	Adoor	Pathanamthitta	Severe drought
385	Ezhamkulam	Adoor	Pathanamthitta	Severe drought
386	Enadimangalam	Adoor	Pathanamthitta	Severe drought
387	Erath	Adoor	Pathanamthitta	Severe drought
388	Chethakal	Ranni	Pathanamthitta	Moderate drought
389	Sooranad North	Kunnathur	Kollam	Severe drought
390	Ochira	Karunagapally	Kollam	Severe drought
391	Thazhava	Karunagapally	Kollam	Severe drought
392	Poruvazhy	Kunnathur	Kollam	Severe drought
393	Thalavoor	Pathanapuram	Kollam	Severe drought
394	Mylom	Kottarakkara	Kollam	Severe drought
395	Neduvathoor	Kottarakkara	Kollam	Severe drought
396	Melila	Kottarakkara	Kollam	Severe drought
397	Kottarakara	Kottarakkara	Kollam	Severe drought
398	Karavallor	Pathanapuram	Kollam	Severe drought
399	Chakkuvarakkal	Kottarakkara	Kollam	Severe drought
400	Ezhukode	Kottarakkara	Kollam	Severe drought
401	Vettikkavala	Kottarakkara	Kollam	Severe drought
402	Ummannoor	Kottarakkara	Kollam	Severe drought
403	Arakkal	Pathanapuram	Kollam	Severe drought
404	Odanavattam	Kottarakkara	Kollam	Severe drought
405	Karupra	Kottarakkara	Kollam	Severe drought
406	Elampalloor	Kollam	Kollam	Severe drought
407	Valakom	Kottarakkara	Kollam	Severe drought
408	Yeroor	Pathanapuram	Kollam	Severe drought
409	Nedumpana	Kollam	Kollam	Severe drought
410	Kottankara	Kollam	Kollam	Severe drought
411	Veliyam	Kottarakkara	Kollam	Severe drought
412	Pallimon	Kollam	Kollam	Severe drought
413	Alayamon	Pathanapuram	Kollam	Severe drought
414	Kilikolloor	Kollam	Kollam	Severe drought
415	Channapetta	Pathanapuram	Kollam	Severe drought
416	Ihiva	Kottarakkara	Kollam	Severe drought
417	Kadakkal	Kottarakkara	Kollam	Severe drought
418	Nilamel	Kottarakkara	Kollam	Severe drought
419	Chithara	Kottarakkara	Kollam	Severe drought
420	Parippally	Kollam	Kollam	Severe drought
421	Kummil	Kottarakkara	Kollam	Severe drought
422	Malkode	Kottarakkara	Kollam	Severe drought
423	Madavur	Chirayinkeezhu	Thiruvananthapuram	Severe drought
424	Kilimanur	Chirayinkeezhu	Thiruvananthapuram	Severe drought
425	Navikulam	Chirayinkeezhu	Thiruvananthapuram	Severe drought
426	Pazhayakurummel	Chirayinkeezhu	Thiruvananthapuram	Severe drought
427	Vallalur	Chirayinkeezhu	Thiruvananthapuram	Severe drought
428	Pangode	Nedumangad	Thiruvananthapuram	Severe drought
429	Chammaruthy	Chirayinkeezhu	Thiruvananthapuram	Severe drought

430	Karavaram	Chirayinkeezhu	Thiruvananthapuram	Severe drought
431	Panavoor	Nedumangad	Thiruvananthapuram	Severe drought
432	Kurupuzha	Nedumangad	Thiruvananthapuram	Severe drought
433	Edakode	Chirayinkeezhu	Thiruvananthapuram	Severe drought
434	Tholicode	Nedumangad	Thiruvananthapuram	Severe drought
435	Koliakkode	Nedumangad	Thiruvananthapuram	Severe drought
436	Manikkal	Nedumangad	Thiruvananthapuram	Severe drought
437	Kizhthonnakkal	Thiruvananthapuram	Thiruvananthapuram	Severe drought
438	Melthonnakkal	Thiruvananthapuram	Thiruvananthapuram	Severe drought
439	Thekkada	Nedumangad	Thiruvananthapuram	Severe drought
440	Anad	Nedumangad	Thiruvananthapuram	Severe drought
441	Karipur	Nedumangad	Thiruvananthapuram	Severe drought
442	Vembayam	Nedumangad	Thiruvananthapuram	Severe drought
443	Andoorkonam	Thiruvananthapuram	Thiruvananthapuram	Severe drought
444	Nedumangad	Nedumangad	Thiruvananthapuram	Severe drought
445	Ayirupara	Thiruvananthapuram	Thiruvananthapuram	Severe drought
446	Uliyazhayhura	Thiruvananthapuram	Thiruvananthapuram	Severe drought
447	Vattappara	Nedumangad	Thiruvananthapuram	Severe drought
448	Karakulam	Nedumangad	Thiruvananthapuram	Severe drought
449	Pangappara	Thiruvananthapuram	Thiruvananthapuram	Severe drought
450	Kudappanakunnu	Thiruvananthapuram	Thiruvananthapuram	Severe drought
451	Ulloor	Thiruvananthapuram	Thiruvananthapuram	Severe drought
452	Perrorkadu	Thiruvananthapuram	Thiruvananthapuram	Severe drought
453	Vattiyorkavu	Thiruvananthapuram	Thiruvananthapuram	Severe drought
454	Malayinkizh	Neyyattinkara	Thiruvananthapuram	Severe drought
455	Vellarada	Neyyattinkara	Thiruvananthapuram	Severe drought
456	Pallichal	Neyyattinkara	Thiruvananthapuram	Severe drought
457	Anavur	Neyyattinkara	Thiruvananthapuram	Severe drought
458	Altiyannur	Neyyattinkara	Thiruvananthapuram	Severe drought
459	Kunnathukal	Neyyattinkara	Thiruvananthapuram	Severe drought
460	Kollagil	Neyyattinkara	Thiruvananthapuram	Severe drought
461	Parsala	Neyyattinkara	Thiruvananthapuram	Severe drought
462	Kowdiar	Thiruvananthapuram	Thiruvananthapuram	Moderate drought
463	Pattom	Thiruvananthapuram	Thiruvananthapuram	Moderate drought
464	Sasthamangalam	Thiruvananthapuram	Thiruvananthapuram	Moderate drought
465	Vanchiyoor	Thiruvananthapuram	Thiruvananthapuram	Moderate drought

ANNEXURE 2: VILLAGES WITH PERENNIAL WATER BODIES (SECOND PRIORITY VILLAGES; 12 SLIGHTLY DROUGHT PRONE; 757 MODERATE DROUGHT PRONE AND 350 SEVERELY DROUGHT PRONE)

Sl.No	Village	Taluk	District	Drought class
1	Kodlamogaru	Kasaragod	Kasargod	Moderate Drought
2	Munja	Kasaragod	Kasargod	Moderate Drought
3	Hosbettu	Kasaragod	Kasargod	Moderate Drought
4	Paivalike	Kasaragod	Kasargod	Moderate Drought
5	Kadambar	Kasaragod	Kasargod	Moderate Drought
6	Bayar	Kasaragod	Kasargod	Moderate Drought
7	Uppala	Kasaragod	Kasargod	Moderate Drought
8	Knmakje	Kasaragod	Kasargod	Moderate Drought
9	Kayyar	Kasaragod	Kasargod	Moderate Drought
10	Ichlangod	Kasaragod	Kasargod	Moderate Drought
11	Obadoor	Kasaragod	Kasargod	Moderate Drought
12	Maire	Kasaragod	Kasargod	Moderate Drought
13	Bombnrana	Kasaragod	Kasargod	Moderate Drought
14	Edanad	Kasaragod	Kasargod	Moderate Drought
15	Badiadka	Kasaragod	Kasargod	Moderate Drought
16	Koipady	Kasaragod	Kasargod	Moderate Drought
17	Nearchal	Kasaragod	Kasargod	Moderate Drought
18	Kunbdaje	Kasaragod	Kasargod	Moderate Drought
19	Adhur	Kasaragod	Kasargod	Moderate Drought
20	Madhur	Kasaragod	Kasargod	Moderate Drought
21	Pady	Kasaragod	Kasargod	Moderate Drought
22	Kudlu	Kasaragod	Kasargod	Moderate Drought
23	Adoor	Kasaragod	Kasargod	Moderate Drought
24	Chengala	Kasaragod	Kasargod	Moderate Drought
25	Muliyar	Kasaragod	Kasargod	Moderate Drought
26	Talangare	Kasaragod	Kasargod	Moderate Drought
27	Kuttikole	Kasaragod	Kasargod	Moderate Drought
28	Munnad	Kasaragod	Kasargod	Moderate Drought
29	Thekkil	Kasaragod	Kasargod	Moderate Drought
30	Kalnad	Kasaragod	Kasargod	Moderate Drought
31	Bedadka	Kasaragod	Kasargod	Moderate Drought
32	Kolathur	Kasaragod	Kasargod	Moderate Drought
33	Kallar	Hosdurg	Kasargod	Moderate Drought
34	Panayal	Hosdurg	Kasargod	Moderate Drought
35	Udma	Hosdurg	Kasargod	Moderate Drought
36	Periye	Hosdurg	Kasargod	Moderate Drought
37	Pallikere-II	Hosdurg	Kasargod	Moderate Drought
38	Kodoph	Hosdurg	Kasargod	Moderate Drought
39	Pullur	Hosdurg	Kasargod	Moderate Drought
40	Pallikere-I	Hosdurg	Kasargod	Moderate Drought
41	Maloth	Hosdurg	Kasargod	Moderate Drought
42	Keekan	Hosdurg	Kasargod	Moderate Drought
43	Chittari	Hosdurg	Kasargod	Moderate Drought
44	Westeleri	Hosdurg	Kasargod	Moderate Drought
45	Ajnur	Hosdurg	Kasargod	Moderate Drought

46	Kinanur	Hosdurg	Kasargod	Moderate Drought
47	Chaittarikkal	Hosdurg	Kasargod	Moderate Drought
48	Beemanadi	Hosdurg	Kasargod	Moderate Drought
49	Karindalam	Hosdurg	Kasargod	Moderate Drought
50	Madakai	Hosdurg	Kasargod	Moderate Drought
51	Kanhongad	Hosdurg	Kasargod	Moderate Drought
52	Pudukai	Hosdurg	Kasargod	Moderate Drought
53	Cheemeni-II	Hosdurg	Kasargod	Moderate Drought
54	Cheemeni-I	Hosdurg	Kasargod	Moderate Drought
55	Kayyur	Hosdurg	Kasargod	Moderate Drought
56	Perol	Hosdurg	Kasargod	Moderate Drought
57	Nileshwar	Hosdurg	Kasargod	Moderate Drought
58	Kilakode	Hosdurg	Kasargod	Moderate Drought
59	Cheruvathur	Hosdurg	Kasargod	Moderate Drought
60	Padne	Hosdurg	Kasargod	Moderate Drought
61	Pilicode	Hosdurg	Kasargod	Moderate Drought
62	Udinoor	Hosdurg	Kasargod	Moderate Drought
63	Trikaripur North	Hosdurg	Kasargod	Moderate Drought
64	Trikaripur South	Hosdurg	Kasargod	Moderate Drought
65	Pulingom	Taliparamba	Kannur	Moderate Drought
66	Vayakkara	Taliparamba	Kannur	Moderate Drought
67	Alakkod	Taliparamba	Kannur	Moderate Drought
68	Thimiri	Taliparamba	Kannur	Moderate Drought
69	Peralam	Taliparamba	Kannur	Moderate Drought
70	Kuttur	Taliparamba	Kannur	Moderate Drought
71	Karivellur	Taliparamba	Kannur	Moderate Drought
72	Eraman	Taliparamba	Kannur	Moderate Drought
73	Kankol	Taliparamba	Kannur	Moderate Drought
74	Eruvessi	Taliparamba	Kannur	Moderate Drought
75	Vellur	Taliparamba	Kannur	Moderate Drought
76	Kuveri	Taliparamba	Kannur	Moderate Drought
77	Payyavur	Taliparamba	Kannur	Moderate Drought
78	Panappuzha	Kannur	Kannur	Moderate Drought
79	Korome	Taliparamba	Kannur	Moderate Drought
80	Pariyaram	Taliparamba	Kannur	Moderate Drought
81	Payyannur	Taliparamba	Kannur	Moderate Drought
82	Kadannappalli	Kannur	Kannur	Moderate Drought
83	Kunnimangalam	Kannur	Kannur	Moderate Drought
84	Cheruthazham	Kannur	Kannur	Moderate Drought
85	Vayathur	Taliparamba	Kannur	Moderate Drought
86	Nuchiyad	Taliparamba	Kannur	Moderate Drought
87	Kuttiyeri	Taliparamba	Kannur	Moderate Drought
88	Ramanthali	Taliparamba	Kannur	Moderate Drought
89	Ayyankunnu	Tellichery	Kannur	Moderate Drought
90	Velamana	Tellichery	Kannur	Moderate Drought
91	Srikantapuram	Taliparamba	Kannur	Moderate Drought
92	Ezhome	Kannur	Kannur	Moderate Drought
93	Taliparamba	Taliparamba	Kannur	Moderate Drought

94	Chengalayi	Taliparamba	Kannur	Moderate Drought
95	Kurumattur	Taliparamba	Kannur	Moderate Drought
96	Madeyi	Kannur	Kannur	Moderate Drought
97	Pattuvam	Taliparamba	Kannur	Moderate Drought
98	Kalliyad	Taliparamba	Kannur	Moderate Drought
99	Malapattan	Taliparamba	Kannur	Moderate Drought
100	Padiyur	Taliparamba	Kannur	Moderate Drought
101	Cherukunnu	Kannur	Kannur	Moderate Drought
102	Kayaralam	Taliparamba	Kannur	Moderate Drought
103	Aralam	Tellichery	Kannur	Moderate Drought
104	Andur	Taliparamba	Kannur	Moderate Drought
105	Payam	Tellichery	Kannur	Moderate Drought
106	Irikkur	Taliparamba	Kannur	Moderate Drought
107	Kannapuram	Kannur	Kannur	Moderate Drought
108	Morazha	Taliparamba	Kannur	Moderate Drought
109	Mattool	Kannur	Kannur	Moderate Drought
110	Kuttiyattur	Taliparamba	Kannur	Moderate Drought
111	Pattannur	Tellichery	Kannur	Moderate Drought
112	Keezhur	Tellichery	Kannur	Moderate Drought
113	Kolacheri	Taliparamba	Kannur	Moderate Drought
114	Kalliasseri	Kannur	Kannur	Moderate Drought
115	Chavassery	Tellichery	Kannur	Moderate Drought
116	Kolari	Tellichery	Kannur	Moderate Drought
117	Pappinisseri	Kannur	Kannur	Moderate Drought
118	Muzhakkunnu	Tellichery	Kannur	Moderate Drought
119	Narath	Kannur	Kannur	Moderate Drought
120	Cheleri	Taliparamba	Kannur	Moderate Drought
121	Maniyur	Taliparamba	Kannur	Moderate Drought
122	Kottiyur	Tellichery	Kannur	Moderate Drought
123	Azhikkod North	Kannur	Kannur	Moderate Drought
124	Munderi	Kannur	Kannur	Moderate Drought
125	Kannadiparamba	Kannur	Kannur	Moderate Drought
126	Keezhallur	Tellichery	Kannur	Moderate Drought
127	Chirakkal	Kannur	Kannur	Moderate Drought
128	Kanichar	Tellichery	Kannur	Moderate Drought
129	Valapattanam	Kannur	Kannur	Moderate Drought
130	Pazhassi	Tellichery	Kannur	Moderate Drought
131	Kelakam	Tellichery	Kannur	Moderate Drought
132	Manathana	Tellichery	Kannur	Moderate Drought
133	Valiyannur	Kannur	Kannur	Moderate Drought
134	Puzhathi	Kannur	Kannur	Moderate Drought
135	Ancharakkandi	Kannur	Kannur	Moderate Drought
136	Vellarveli	Tellichery	Kannur	Moderate Drought
137	Chelora	Kannur	Kannur	Moderate Drought
138	Paduvilayi	Tellichery	Kannur	Moderate Drought
139	Elayavur	Kannur	Kannur	Moderate Drought
140	Vekkalam	Tellichery	Kannur	Moderate Drought
141	Mangattidam	Tellichery	Kannur	Moderate Drought

142	Kandan Kunnu	Tellichery	Kannur	Moderate Drought
143	Kannur-I	Kannur	Kannur	Moderate Drought
144	Edakkad	Kannur	Kannur	Moderate Drought
145	Makreri	Kannur	Kannur	Moderate Drought
146	Mavilayi	Kannur	Kannur	Moderate Drought
147	Pathiriyad	Tellichery	Kannur	Moderate Drought
148	Cheruvancherry	Tellichery	Kannur	Moderate Drought
149	Pinarayi	Tellichery	Kannur	Moderate Drought
150	Pattayam	Tellichery	Kannur	Moderate Drought
151	Dharmadam	Tellichery	Kannur	Moderate Drought
152	Muzhappilangad	Kannur	Kannur	Moderate Drought
153	Triprangottur	Tellichery	Kannur	Moderate Drought
154	Kadirur	Tellichery	Kannur	Moderate Drought
155	Erannoli	Tellichery	Kannur	Moderate Drought
156	Talasseri	Tellichery	Kannur	Moderate Drought
157	Thiruvangad	Tellichery	Kannur	Moderate Drought
158	Pannyanur	Tellichery	Kannur	Moderate Drought
159	Kodiyeri	Tellichery	Kannur	Moderate Drought
160	Peringathur	Tellichery	Kannur	Moderate Drought
161	Chokli	Tellichery	Kannur	Moderate Drought
162	Chekkayad	Vadakara	Kozhikkode	Moderate Drought
163	Valayam	Vadakara	Kozhikkode	Moderate Drought
164	Vanimel	Vadakara	Kozhikkode	Moderate Drought
165	Narippetta	Vadakara	Kozhikkode	Moderate Drought
166	Thuner	Vadakara	Kozhikkode	Moderate Drought
167	Edacheri	Vadakara	Kozhikkode	Moderate Drought
168	Kayakkodi	Vadakara	Kozhikkode	Moderate Drought
169	Nadapuram	Vadakara	Kozhikkode	Moderate Drought
170	Eramala	Vadakara	Kozhikkode	Moderate Drought
171	Maruthonkara	Vadakara	Kozhikkode	Moderate Drought
172	Chembanoda	Quilandy	Kozhikkode	Moderate Drought
173	Kuttadi	Vadakara	Kozhikkode	Moderate Drought
174	Paleri	Quilandy	Kozhikkode	Moderate Drought
175	Velom	Vadakara	Kozhikkode	Moderate Drought
176	Changaroath	Quilandy	Kozhikkode	Moderate Drought
177	Chakkittapara	Quilandy	Kozhikkode	Moderate Drought
178	Perambra	Quilandy	Kozhikkode	Moderate Drought
179	Thiruvallur	Vadakara	Kozhikkode	Moderate Drought
180	Cheruvannur	Quilandy	Kozhikkode	Moderate Drought
181	Eravattur	Quilandy	Kozhikkode	Moderate Drought
182	Koothali	Quilandy	Kozhikkode	Moderate Drought
183	Maniyur	Vadakara	Kozhikkode	Moderate Drought
184	Meshanyam	Quilandy	Kozhikkode	Moderate Drought
185	Kayanna	Quilandy	Kozhikkode	Moderate Drought
186	Kanthalad	Quilandy	Kozhikkode	Moderate Drought
187	Thurayur	Quilandy	Kozhikkode	Moderate Drought
188	Puthupadi	Kozhikkode	Kozhikkode	Moderate Drought
189	Payyoli	Quilandy	Kozhikkode	Moderate Drought

190	Arikulam	Quilandy	Kozhikkode	Moderate Drought
191	Thikodi	Quilandy	Kozhikkode	Moderate Drought
192	Keezhariyur	Quilandy	Kozhikkode	Moderate Drought
193	Kodancheri	Kozhikkode	Kozhikkode	Moderate Drought
194	Naduvannur	Quilandy	Kozhikkode	Moderate Drought
195	Avidanallur	Quilandy	Kozhikkode	Moderate Drought
196	Mudadi	Quilandy	Kozhikkode	Moderate Drought
197	Kinalur	Quilandy	Kozhikkode	Moderate Drought
198	Viyyur	Quilandy	Kozhikkode	Moderate Drought
199	Thiruvambadi	Kozhikkode	Kozhikkode	Moderate Drought
200	Engapuzha	Kozhikkode	Kozhikkode	Moderate Drought
201	Panangad	Quilandy	Kozhikkode	Moderate Drought
202	Ulliyeri	Quilandy	Kozhikkode	Moderate Drought
203	Panthalayini	Quilandy	Kozhikkode	Moderate Drought
204	Balusseri	Quilandy	Kozhikkode	Moderate Drought
205	Koodattayi	Kozhikkode	Kozhikkode	Moderate Drought
206	Raroth	Kozhikkode	Kozhikkode	Moderate Drought
207	Kodaranji	Kozhikkode	Kozhikkode	Moderate Drought
208	Atholi	Quilandy	Kozhikkode	Moderate Drought
209	Chengottukavu	Quilandy	Kozhikkode	Moderate Drought
210	Kizhakothe	Kozhikkode	Kozhikkode	Moderate Drought
211	Chenancheri	Quilandy	Kozhikkode	Moderate Drought
212	Vavad	Kozhikkode	Kozhikkode	Moderate Drought
213	Puthur	Kozhikkode	Kozhikkode	Moderate Drought
214	Thalakulathur	Kozhikkode	Kozhikkode	Moderate Drought
215	Chelannur	Kozhikkode	Kozhikkode	Moderate Drought
216	Neeleswaram	Kozhikkode	Kozhikkode	Moderate Drought
217	Koduralli	Kozhikkode	Kozhikkode	Moderate Drought
218	Madavoor	Kozhikkode	Kozhikkode	Moderate Drought
219	Elathur	Kozhikkode	Kozhikkode	Moderate Drought
220	Kakkodi	Kozhikkode	Kozhikkode	Moderate Drought
221	Chettamangalam	Kozhikkode	Kozhikkode	Moderate Drought
222	Thazhekode	Kozhikkode	Kozhikkode	Moderate Drought
223	Kuruvattur	Kozhikkode	Kozhikkode	Moderate Drought
224	Kummamangalam	Kozhikkode	Kozhikkode	Moderate Drought
225	Kumaranalloor	Kozhikkode	Kozhikkode	Moderate Drought
226	Poolakode	Kozhikkode	Kozhikkode	Moderate Drought
227	Kakkad	Kozhikkode	Kozhikkode	Moderate Drought
228	Vengeri	Kozhikkode	Kozhikkode	Moderate Drought
229	Kodiyallur	Kozhikkode	Kozhikkode	Moderate Drought
230	Chevayur	Kozhikkode	Kozhikkode	Moderate Drought
231	Peruvayal	Kozhikkode	Kozhikkode	Moderate Drought
232	Katcheri	Kozhikkode	Kozhikkode	Moderate Drought
233	Mavoor	Kozhikkode	Kozhikkode	Moderate Drought
234	Kuttuli	Kozhikkode	Kozhikkode	Moderate Drought
235	Kasaba	Kozhikkode	Kozhikkode	Moderate Drought
236	Perumanna	Kozhikkode	Kozhikkode	Moderate Drought
237	Valavanad	Kozhikkode	Kozhikkode	Moderate Drought

238	Panthuraskavu	Kozhikkode	Kozhikkode	Moderate Drought
239	Nagaran	Kozhikkode	Kozhikkode	Moderate Drought
240	Olavanna	Kozhikkode	Kozhikkode	Moderate Drought
241	Panniankara	Kozhikkode	Kozhikkode	Moderate Drought
242	Cheruvamur	Kozhikkode	Kozhikkode	Moderate Drought
243	Beypore	Kozhikkode	Kozhikkode	Moderate Drought
244	Ramanattukara	Kozhikkode	Kozhikkode	Moderate Drought
245	Feroke	Kozhikkode	Kozhikkode	Moderate Drought
246	Karuvanthuruthi	Kozhikkode	Kozhikkode	Moderate Drought
247	Kadalundi	Kozhikkode	Kozhikkode	Moderate Drought
248	Vadakara	Vadakara	Kozhikkode	Slightly Drought
249	Nadakkkuthazha	Vadakara	Kozhikkode	Slightly Drought
250	Palayad	Vadakara	Kozhikkode	Slightly Drought
251	Iringal	Quilandy	Kozhikkode	Slightly Drought
252	Thirunalli	Mananthavady	Wayanad	Severe Drought
253	Thrissileri	Mananthavady	Wayanad	Severe Drought
254	Pulpalli	Sulthan Bathery	Wayanad	Severe Drought
255	Payyampalli	Mananthavady	Wayanad	Severe Drought
256	Cherukattur	Mananthavady	Wayanad	Severe Drought
257	Panamaram	Mananthavady	Wayanad	Severe Drought
258	Anchukunnu	Mananthavady	Wayanad	Severe Drought
259	Kuppadithara	Vythiri	Wayanad	Severe Drought
260	Nulpuzha	Sulthan Bathery	Wayanad	Severe Drought
261	Kottathara	Vythiri	Wayanad	Severe Drought
262	Vengappalli	Vythiri	Wayanad	Severe Drought
263	Muppainad	Vythiri	Wayanad	Severe Drought
264	Vellarimala	Vythiri	Wayanad	Severe Drought
265	Thavinhal	Mananthavady	Wayanad	Moderate Drought
266	Mannanthavady	Mananthavady	Wayanad	Moderate Drought
267	Periya	Mananthavady	Wayanad	Moderate Drought
268	Valad	Mananthavady	Wayanad	Moderate Drought
269	Thondernad	Mananthavady	Wayanad	Moderate Drought
270	Kanjirangad	Mananthavady	Wayanad	Moderate Drought
271	Nallurnad	Mananthavady	Wayanad	Moderate Drought
272	Edavaka	Mananthavady	Wayanad	Moderate Drought
273	Porunnannur	Mananthavady	Wayanad	Moderate Drought
274	Vellamunda	Mananthavady	Wayanad	Moderate Drought
275	Padinharathara	Vythiri	Wayanad	Moderate Drought
276	Kavummandam	Vythiri	Wayanad	Moderate Drought
277	Tariyod	Vythiri	Wayanad	Moderate Drought
278	Achooranam	Vythiri	Wayanad	Moderate Drought
279	Pozhuthana	Vythiri	Wayanad	Moderate Drought
280	Chundel	Vythiri	Wayanad	Moderate Drought
281	Chungathara	Nilambur	Malappuram	Severe Drought
282	Kurumbalangodu	Nilambur	Malappuram	Severe Drought
283	Edakkara	Nilambur	Malappuram	Severe Drought
284	Valikadavu	Nilambur	Malappuram	Severe Drought
285	Akampadam	Nilambur	Malappuram	Moderate Drought

286	Karulai	Nilambur	Malappuram	Moderate Drought
287	Pullippadam	Nilambur	Malappuram	Moderate Drought
288	Nilambur	Nilambur	Malappuram	Moderate Drought
289	Amarambalam	Nilambur	Malappuram	Moderate Drought
290	Urangathiri	Eranad	Malappuram	Moderate Drought
291	Kizhuparamba	Eranad	Malappuram	Moderate Drought
292	Vazhakkad	Eranad	Malappuram	Moderate Drought
293	Parakkamanna	Eranad	Malappuram	Moderate Drought
294	Mambad	Nilambur	Malappuram	Moderate Drought
295	Edavam	Eranad	Malappuram	Moderate Drought
296	Chikkod	Eranad	Malappuram	Moderate Drought
297	Areacode	Eranad	Malappuram	Moderate Drought
298	Chokkad	Nilambur	Malappuram	Moderate Drought
299	Vazhayur	Eranad	Malappuram	Moderate Drought
300	Wandur	Nilambur	Malappuram	Moderate Drought
301	Kavanur	Eranad	Malappuram	Moderate Drought
302	Kalikavu	Nilambur	Malappuram	Moderate Drought
303	Vellayur	Nilambur	Malappuram	Moderate Drought
304	Kerala Estate	Nilambur	Malappuram	Moderate Drought
305	Chelembra	Tirurngadi	Malappuram	Moderate Drought
306	Thuvvur	Nilambur	Malappuram	Moderate Drought
307	Tennippalam	Tirurngadi	Malappuram	Moderate Drought
308	Vallikunnu	Tirurngadi	Malappuram	Moderate Drought
309	Karuvarakundu	Nilambur	Malappuram	Moderate Drought
310	Vettikkafiri	Eranad	Malappuram	Moderate Drought
311	Payyanad	Eranad	Malappuram	Moderate Drought
312	Manjiri	Eranad	Malappuram	Moderate Drought
313	Pandikkad	Eranad	Malappuram	Moderate Drought
314	Anakkayam	Eranad	Malappuram	Moderate Drought
315	Ariyallur	Tirurngadi	Malappuram	Moderate Drought
316	Moonniyur	Tirurngadi	Malappuram	Moderate Drought
317	Urakam	Tirurngadi	Malappuram	Moderate Drought
318	Pandalur	Eranad	Malappuram	Moderate Drought
319	Edapatta	Perinthalmanna	Malappuram	Moderate Drought
320	Melmuri	Eranad	Malappuram	Moderate Drought
321	Nemmini	Perinthalmanna	Malappuram	Moderate Drought
322	Koduvayur	Tirurngadi	Malappuram	Moderate Drought
323	Melattur	Perinthalmanna	Malappuram	Moderate Drought
324	Neduva	Tirurngadi	Malappuram	Moderate Drought
325	Parappanangadi	Tirurngadi	Malappuram	Moderate Drought
326	Kottilangadi	Perinthalmanna	Malappuram	Moderate Drought
327	Ranakkad	Eranad	Malappuram	Moderate Drought
328	Vengara	Tirurngadi	Malappuram	Moderate Drought
329	Kelzhattur	Perinthalmanna	Malappuram	Moderate Drought
330	Malappuram	Eranad	Malappuram	Moderate Drought
331	Othukungal	Tirurngadi	Malappuram	Moderate Drought
332	Tirurngadi	Tirurngadi	Malappuram	Moderate Drought
333	Kodur	Perinthalmanna	Malappuram	Moderate Drought

334	Parappur	Tirurngadi	Malappuram	Moderate Drought
335	Ponmala	Tirur	Malappuram	Moderate Drought
336	Thennala	Tirurngadi	Malappuram	Moderate Drought
337	Kuruva	Perinthalmanna	Malappuram	Moderate Drought
338	Pariyapuram	Tirur	Malappuram	Moderate Drought
339	Tanur	Tirur	Malappuram	Moderate Drought
340	Moorkanad	Perinthalmanna	Malappuram	Moderate Drought
341	Kuruvambalam	Perinthalmanna	Malappuram	Moderate Drought
342	Anamangad	Perinthalmanna	Malappuram	Moderate Drought
343	Pulamonthole	Perinthalmanna	Malappuram	Moderate Drought
344	Cheriyamundam	Tirur	Malappuram	Moderate Drought
345	Aliparamba	Perinthalmanna	Malappuram	Moderate Drought
346	Tirur	Tirur	Malappuram	Moderate Drought
347	Elamkulam	Perinthalmanna	Malappuram	Moderate Drought
348	Trikkandiyur	Tirur	Malappuram	Moderate Drought
349	Vettam	Tirur	Malappuram	Moderate Drought
350	Talakkad	Tirur	Malappuram	Moderate Drought
351	Irimbilyam	Tirur	Malappuram	Moderate Drought
352	Naduvattam	Tirur	Malappuram	Moderate Drought
353	Thirunnavaaya	Tirur	Malappuram	Moderate Drought
354	Thriprangode	Tirur	Malappuram	Moderate Drought
355	Kuttippuram	Tirur	Malappuram	Moderate Drought
356	Mangalam	Tirur	Malappuram	Moderate Drought
357	Tavanur	Ponnani	Malappuram	Moderate Drought
358	Purathur	Tirur	Malappuram	Moderate Drought
359	Kalady	Ponnani	Malappuram	Moderate Drought
360	Izhuvattirutti	Ponnani	Malappuram	Moderate Drought
361	Edappal	Ponnani	Malappuram	Moderate Drought
362	Ponnani Nagaram	Ponnani	Malappuram	Moderate Drought
363	Marancheri	Ponnani	Malappuram	Moderate Drought
364	Veliyamkod	Ponnani	Malappuram	Moderate Drought
365	Nannamukku	Ponnani	Malappuram	Moderate Drought
366	Perumbadappu	Ponnani	Malappuram	Moderate Drought
367	Elappully-I	Palakkad	Palakkad	Severe Drought
368	Kodumba	Palakkad	Palakkad	Severe Drought
369	Elappully-II	Palakkad	Palakkad	Severe Drought
370	Nalleppilly	Chittur	Palakkad	Severe Drought
371	Polpulli	Palakkad	Palakkad	Severe Drought
372	Valiyavallampadhy	Chittur	Palakkad	Severe Drought
373	Thekkedeom	Chittur	Palakkad	Severe Drought
374	Peruvemba	Palakkad	Palakkad	Severe Drought
375	Chittur	Chittur	Palakkad	Severe Drought
376	Thathamangalam	Chittur	Palakkad	Severe Drought
377	Perumathy	Chittur	Palakkad	Severe Drought
378	Vamdithavalam	Chittur	Palakkad	Severe Drought
379	Muthalamada-I	Chittur	Palakkad	Severe Drought
380	Nelliampathy	Chittur	Palakkad	Severe Drought
381	Puthur	Mannarkad	Palakkad	Moderate Drought

382	Padavayal	Mannarkad	Palakkad	Moderate Drought
383	Agali	Mannarkad	Palakkad	Moderate Drought
384	Kottathara	Mannarkad	Palakkad	Moderate Drought
385	Kallamala	Mannarkad	Palakkad	Moderate Drought
386	Alanellur-III	Mannarkad	Palakkad	Moderate Drought
387	Kottappadam-I	Mannarkad	Palakkad	Moderate Drought
388	Payyanadam	Mannarkad	Palakkad	Moderate Drought
389	Mannarkad-I	Mannarkad	Palakkad	Moderate Drought
390	Alanellur-II	Mannarkad	Palakkad	Moderate Drought
391	Mannarkad-II	Mannarkad	Palakkad	Moderate Drought
392	Alanellur-I	Mannarkad	Palakkad	Moderate Drought
393	Pottasseri-I	Mannarkad	Palakkad	Moderate Drought
394	Kumaramputhur	Mannarkad	Palakkad	Moderate Drought
395	Pottasseri-II	Mannarkad	Palakkad	Moderate Drought
396	Tachambra	Mannarkad	Palakkad	Moderate Drought
397	Tachanattukara-I	Mannarkad	Palakkad	Moderate Drought
398	Karakurussi	Mannarkad	Palakkad	Moderate Drought
399	Karimpuzha-I	Ottappalam	Palakkad	Moderate Drought
400	Tachanattukara-II	Mannarkad	Palakkad	Moderate Drought
401	Karimpuzha-II	Ottappalam	Palakkad	Moderate Drought
402	Karimba-I	Mannarkad	Palakkad	Moderate Drought
403	Malampuzha-I	Palakkad	Palakkad	Moderate Drought
404	Puduppariyaram-I	Palakkad	Palakkad	Moderate Drought
405	Vellinezha	Ottappalam	Palakkad	Moderate Drought
406	Sreekrishnapuram-I	Ottappalam	Palakkad	Moderate Drought
407	Karimba-II	Mannarkad	Palakkad	Moderate Drought
408	Cherplachery	Ottappalam	Palakkad	Moderate Drought
409	Kadambazhipuram-II	Ottappalam	Palakkad	Moderate Drought
410	Kulukallur	Ottappalam	Palakkad	Moderate Drought
411	Nellaya	Ottappalam	Palakkad	Moderate Drought
412	Thiruvegapura	Ottappalam	Palakkad	Moderate Drought
413	Pudusseri East	Palakkad	Palakkad	Moderate Drought
414	Akathethara	Palakkad	Palakkad	Moderate Drought
415	Mundur-I	Palakkad	Palakkad	Moderate Drought
416	Parudur	Ottappalam	Palakkad	Moderate Drought
417	Keralasseri	Palakkad	Palakkad	Moderate Drought
418	Pattambi	Ottappalam	Palakkad	Moderate Drought
419	Anakkara	Ottappalam	Palakkad	Moderate Drought
420	Muthuthala	Ottappalam	Palakkad	Moderate Drought
421	Puduppariyaram-II	Palakkad	Palakkad	Moderate Drought
422	Mankara	Palakkad	Palakkad	Moderate Drought
423	Pudusseri Central	Palakkad	Palakkad	Moderate Drought
424	Malampuzha-II	Palakkad	Palakkad	Moderate Drought
425	Parli-I	Palakkad	Palakkad	Moderate Drought
426	Pattitara	Ottappalam	Palakkad	Moderate Drought
427	Ottappalam-I	Ottappalam	Palakkad	Moderate Drought
428	Parli-II	Palakkad	Palakkad	Moderate Drought
429	Shornur-II	Ottappalam	Palakkad	Moderate Drought

430	Pudusseri West	Palakkad	Palakkad	Moderate Drought
431	Ozhalapathy	Chittur	Palakkad	Moderate Drought
432	Vadakarapathy	Chittur	Palakkad	Moderate Drought
433	Ongallur-II	Ottappalam	Palakkad	Moderate Drought
434	Trittala	Ottappalam	Palakkad	Moderate Drought
435	Palakkad-II	Palakkad	Palakkad	Moderate Drought
436	Pirayiri	Palakkad	Palakkad	Moderate Drought
437	Ottappalam-II	Ottappalam	Palakkad	Moderate Drought
438	Palakkad-I	Palakkad	Palakkad	Moderate Drought
439	Kottayi-I	Alathur	Palakkad	Moderate Drought
440	Shornur-I	Ottappalam	Palakkad	Moderate Drought
441	Vaniyamkulam-II	Ottappalam	Palakkad	Moderate Drought
442	Elappully-III	Palakkad	Palakkad	Moderate Drought
443	Thirumittakod-I	Ottappalam	Palakkad	Moderate Drought
444	Palakkad-III	Palakkad	Palakkad	Moderate Drought
445	Mathur-II	Alathur	Palakkad	Moderate Drought
446	Lakkidiperur-II	Ottappalam	Palakkad	Moderate Drought
447	Kottayi-II	Alathur	Palakkad	Moderate Drought
448	Eruthempathy	Chittur	Palakkad	Moderate Drought
449	Peringottukurussi-I	Alathur	Palakkad	Moderate Drought
450	Kozhinjampara	Chittur	Palakkad	Moderate Drought
451	Peringottukurussi-II	Alathur	Palakkad	Moderate Drought
452	Yakkara	Palakkad	Palakkad	Moderate Drought
453	Kannadi-I	Palakkad	Palakkad	Moderate Drought
454	Kannadi-II	Palakkad	Palakkad	Moderate Drought
455	Kozhipathy	Chittur	Palakkad	Moderate Drought
456	Tarur-I	Alathur	Palakkad	Moderate Drought
457	Tarur-II	Alathur	Palakkad	Moderate Drought
458	Erimayur-I	Alathur	Palakkad	Moderate Drought
459	Kavasseri-I	Alathur	Palakkad	Moderate Drought
460	Moolatharu	Chittur	Palakkad	Moderate Drought
461	Alathur	Alathur	Palakkad	Moderate Drought
462	Kavasseri-II	Alathur	Palakkad	Moderate Drought
463	Erimayur-II	Alathur	Palakkad	Moderate Drought
464	Pudukkode	Alathur	Palakkad	Moderate Drought
465	Vadavannur	Chittur	Palakkad	Moderate Drought
466	Pallassana	Chittur	Palakkad	Moderate Drought
467	Kannambra-II	Alathur	Palakkad	Moderate Drought
468	Muthalamada-II	Chittur	Palakkad	Moderate Drought
469	Vedakkamchery-II	Alathur	Palakkad	Moderate Drought
470	Kollangode-I	Chittur	Palakkad	Moderate Drought
471	Melarkode	Alathur	Palakkad	Moderate Drought
472	Elavanchery	Chittur	Palakkad	Moderate Drought
473	Kollangode-II	Chittur	Palakkad	Moderate Drought
474	Vadakkamchery-I	Alathur	Palakkad	Moderate Drought
475	Vallangi	Chittur	Palakkad	Moderate Drought
476	Vandazhi-II	Alathur	Palakkad	Moderate Drought
477	Nemmara	Chittur	Palakkad	Moderate Drought

478	Kizhakkanchery-II	Alathur	Palakkad	Moderate Drought
479	Kizhakkanchery-I	Alathur	Palakkad	Moderate Drought
480	Vandazhi-I	Alathur	Palakkad	Moderate Drought
481	Mangolam Dam	Alathur	Palakkad	Moderate Drought
482	Pariyaram	Mukundapuram	Thrissur	Severe Drought
483	Pallur	Thalappally	Thrissur	Moderate Drought
484	Mayannur	Thalappally	Thrissur	Moderate Drought
485	Desamangalom	Thalappally	Thrissur	Moderate Drought
486	Cheruthurathy	Thalappally	Thrissur	Moderate Drought
487	Pinkulam	Thalappally	Thrissur	Moderate Drought
488	Pampady	Thalappally	Thrissur	Moderate Drought
489	Kaniyarakode	Thalappally	Thrissur	Moderate Drought
490	Nedumpura	Thalappally	Thrissur	Moderate Drought
491	Venganellur	Thalappally	Thrissur	Moderate Drought
492	Kondazhy	Thalappally	Thrissur	Moderate Drought
493	Thiruvilwamala	Thalappally	Thrissur	Moderate Drought
494	Killimangalam	Thalappally	Thrissur	Moderate Drought
495	Kadangodu	Thalappally	Thrissur	Moderate Drought
496	Vadakkethara	Thalappally	Thrissur	Moderate Drought
497	Nelluwaye	Thalappally	Thrissur	Moderate Drought
498	Kattakampala	Thalappally	Thrissur	Moderate Drought
499	Kariyannur	Thalappally	Thrissur	Moderate Drought
500	Kadikkad	Chavakkad	Thrissur	Moderate Drought
501	Punnayurkulam	Chavakkad	Thrissur	Moderate Drought
502	Pazhayanur	Thalappally	Thrissur	Moderate Drought
503	Thayyur	Thalappally	Thrissur	Moderate Drought
504	Vellattanjur	Thalappally	Thrissur	Moderate Drought
505	Eyyal	Thalappally	Thrissur	Moderate Drought
506	Punnayar	Chavakkad	Thrissur	Moderate Drought
507	Manalithara	Thalappally	Thrissur	Moderate Drought
508	Chairanellur	Thalappally	Thrissur	Moderate Drought
509	Edakkazhiyur	Chavakkad	Thrissur	Moderate Drought
510	Choondal	Thalappally	Thrissur	Moderate Drought
511	Eranellur	Thalappally	Thrissur	Moderate Drought
512	Peragam	Chavakkad	Thrissur	Moderate Drought
513	Anjur	Thrissur	Thrissur	Moderate Drought
514	Pananchery	Thrissur	Thrissur	Moderate Drought
515	Alur	Thalappally	Thrissur	Moderate Drought
516	Manathala	Chavakkad	Thrissur	Moderate Drought
517	Guruvayur	Chavakkad	Thrissur	Moderate Drought
518	Madakkathara	Thrissur	Thrissur	Moderate Drought
519	Peramangalam	Thrissur	Thrissur	Moderate Drought
520	Edakkalathur	Thrissur	Thrissur	Moderate Drought
521	Charakked	Chavakkad	Thrissur	Moderate Drought
522	Elavally	Chavakkad	Thrissur	Moderate Drought
523	Drumanayar	Chavakkad	Thrissur	Moderate Drought
524	Tholur	Thrissur	Thrissur	Moderate Drought
525	Peechi	Thrissur	Thrissur	Moderate Drought

526	Annakara	Chavakkad	Thrissur	Moderate Drought
527	Pavaratty	Chavakkad	Thrissur	Moderate Drought
528	Kadappuram	Chavakkad	Thrissur	Moderate Drought
529	Chittilappilly	Thrissur	Thrissur	Moderate Drought
530	Puzhakkal	Thrissur	Thrissur	Moderate Drought
531	Chalakkal	Thrissur	Thrissur	Moderate Drought
532	Vammenad	Chavakkad	Thrissur	Moderate Drought
533	Puranattukara	Thrissur	Thrissur	Moderate Drought
534	Vellanikkara	Thrissur	Thrissur	Moderate Drought
535	Adat	Thrissur	Thrissur	Moderate Drought
536	Mullassery	Chavakkad	Thrissur	Moderate Drought
537	Ayyantole	Thrissur	Thrissur	Moderate Drought
538	Ollukkara	Thrissur	Thrissur	Moderate Drought
539	Kundaliyur	Chavakkad	Thrissur	Moderate Drought
540	Mulayam	Thrissur	Thrissur	Moderate Drought
541	Thrissur	Thrissur	Thrissur	Moderate Drought
542	Engandiyur	Chavakkad	Thrissur	Moderate Drought
543	Venkidanga	Chavakkad	Thrissur	Moderate Drought
544	Pullazhi	Thrissur	Thrissur	Moderate Drought
545	Kozhikkully	Thrissur	Thrissur	Moderate Drought
546	Orimbranallur	Chavakkad	Thrissur	Moderate Drought
547	Aranattukara	Thrissur	Thrissur	Moderate Drought
548	Nadathara	Thrissur	Thrissur	Moderate Drought
549	Chiyaram	Thrissur	Thrissur	Moderate Drought
550	Kainoor	Thrissur	Thrissur	Moderate Drought
551	Parakkad	Thrissur	Thrissur	Moderate Drought
552	Koorkkanchery	Thrissur	Thrissur	Moderate Drought
553	Eravu	Thrissur	Thrissur	Moderate Drought
554	Karamuck	Thrissur	Thrissur	Moderate Drought
555	Manalur	Thrissur	Thrissur	Moderate Drought
556	Vadanappilly	Chavakkad	Thrissur	Moderate Drought
557	Manakkodi	Thrissur	Thrissur	Moderate Drought
558	Kanimangalam	Thrissur	Thrissur	Moderate Drought
559	Puttur	Thrissur	Thrissur	Moderate Drought
560	Veluthur	Thrissur	Thrissur	Moderate Drought
561	Marattakkara	Thrissur	Thrissur	Moderate Drought
562	Kodannur	Thrissur	Thrissur	Moderate Drought
563	Palissery	Thrissur	Thrissur	Moderate Drought
564	Venginissery	Thrissur	Thrissur	Moderate Drought
565	Trikkur	Mukundapuram	Thrissur	Moderate Drought
566	Kallur	Mukundapuram	Thrissur	Moderate Drought
567	Anthicad	Thrissur	Thrissur	Moderate Drought
568	Pallu	Thrissur	Thrissur	Moderate Drought
569	Padiyam	Thrissur	Thrissur	Moderate Drought
570	Chovvur	Thrissur	Thrissur	Moderate Drought
571	Talikkulam	Chavakkad	Thrissur	Moderate Drought
572	Paralom	Thrissur	Thrissur	Moderate Drought
573	Pallipuram	Thrissur	Thrissur	Moderate Drought

574	Nammenikkara	Mukundapuram	Thrissur	Moderate Drought
575	Vallachira	Thrissur	Thrissur	Moderate Drought
576	Chazhoor	Thrissur	Thrissur	Moderate Drought
577	Alappad	Thrissur	Thrissur	Moderate Drought
578	Amballur	Mukundapuram	Thrissur	Moderate Drought
579	Vadakkummuri	Thrissur	Thrissur	Moderate Drought
580	Nattika	Chavakkad	Thrissur	Moderate Drought
581	Cherpu	Thrissur	Thrissur	Moderate Drought
582	Varandarapilly	Mukundapuram	Thrissur	Moderate Drought
583	Oorakam	Thrissur	Thrissur	Moderate Drought
584	Kurunpilavu	Thrissur	Thrissur	Moderate Drought
585	Inchamudi	Thrissur	Thrissur	Moderate Drought
586	Arattupuzha	Thrissur	Thrissur	Moderate Drought
587	Thorava	Mukundapuram	Thrissur	Moderate Drought
588	Thottippad	Mukundapuram	Thrissur	Moderate Drought
589	Tanniyam	Thrissur	Thrissur	Moderate Drought
590	Muppiliyom	Mukundapuram	Thrissur	Moderate Drought
591	Chengallur	Mukundapuram	Thrissur	Moderate Drought
592	Parappukara	Mukundapuram	Thrissur	Moderate Drought
593	Karalam	Mukundapuram	Thrissur	Moderate Drought
594	Kizhupillikkara	Thrissur	Thrissur	Moderate Drought
595	Porathisheru	Mukundapuram	Thrissur	Moderate Drought
596	Valappad	Chavakkad	Thrissur	Moderate Drought
597	Nandipulom	Mukundapuram	Thrissur	Moderate Drought
598	Kattur	Mukundapuram	Thrissur	Moderate Drought
599	Edathiruthy	Kodungathur	Thrissur	Moderate Drought
600	Mattathur	Mukundapuram	Thrissur	Moderate Drought
601	Nellai	Mukundapuram	Thrissur	Moderate Drought
602	Madayikkonam	Mukundapuram	Thrissur	Moderate Drought
603	Anandapuram	Mukundapuram	Thrissur	Moderate Drought
604	Manavalassery	Mukundapuram	Thrissur	Moderate Drought
605	Muriyad	Mukundapuram	Thrissur	Moderate Drought
606	Irinjalakuda	Mukundapuram	Thrissur	Moderate Drought
607	Chendrapinni	Kodungathur	Thrissur	Moderate Drought
608	Pullur	Mukundapuram	Thrissur	Moderate Drought
609	Edathiringi	Mukundapuram	Thrissur	Moderate Drought
610	Kaipamangalom	Kodungathur	Thrissur	Moderate Drought
611	Aloor	Mukundapuram	Thrissur	Moderate Drought
612	Elinjipra	Mukundapuram	Thrissur	Moderate Drought
613	Poomangalom	Mukundapuram	Thrissur	Moderate Drought
614	Kizhake Chalakudi	Mukundapuram	Thrissur	Moderate Drought
615	Padiyoor	Mukundapuram	Thrissur	Moderate Drought
616	Perinjanam	Kodungathur	Thrissur	Moderate Drought
617	Vadakkumkara	Mukundapuram	Thrissur	Moderate Drought
618	Melur	Mukundapuram	Thrissur	Moderate Drought
619	Padinjara Chalakudi	Mukundapuram	Thrissur	Moderate Drought
620	Pappimivattom	Kodungathur	Thrissur	Moderate Drought
621	Annallur	Mukundapuram	Thrissur	Moderate Drought

622	Thekkumkara	Mukundapuram	Thrissur	Moderate Drought
623	Puthenchira	Mukundapuram	Thrissur	Moderate Drought
624	Vallivattom	Mukundapuram	Thrissur	Moderate Drought
625	Muringoor Vadakkummuri	Mukundapuram	Thrissur	Moderate Drought
626	Vadakkumbhagam	Mukundapuram	Thrissur	Moderate Drought
627	Kallur Vadakkummuri	Mukundapuram	Thrissur	Moderate Drought
628	Panangad	Kodungathur	Thrissur	Moderate Drought
629	Karumathra	Mukundapuram	Thrissur	Moderate Drought
630	Vadama	Mukundapuram	Thrissur	Moderate Drought
631	Ala	Kodungathur	Thrissur	Moderate Drought
632	Pullut	Kodungathur	Thrissur	Moderate Drought
633	Kallurthekkummuri	Mukundapuram	Thrissur	Moderate Drought
634	Alathur	Mukundapuram	Thrissur	Moderate Drought
635	Lokamaleswaram	Kodungathur	Thrissur	Moderate Drought
636	Pallipuram	Kodungathur	Thrissur	Moderate Drought
637	Eriyad	Kodungathur	Thrissur	Moderate Drought
638	Poyya	Kodungathur	Thrissur	Moderate Drought
639	Kakkulisserry	Mukundapuram	Thrissur	Moderate Drought
640	Methana	Kodungathur	Thrissur	Moderate Drought
641	Madathumpady	Kodungathur	Thrissur	Moderate Drought
642	Azhikode	Kodungathur	Thrissur	Moderate Drought
643	Thirumukkalam	Mukundapuram	Thrissur	Moderate Drought
644	Panjal	Thalappally	Thrissur	Slightly Drought
645	Attur	Thalappally	Thrissur	Slightly Drought
646	Kanjirakkode	Thalappally	Thrissur	Slightly Drought
647	Kottapurom	Thalappally	Thrissur	Slightly Drought
648	Chittanda	Thalappally	Thrissur	Slightly Drought
649	Kumaranattur	Thalappally	Thrissur	Slightly Drought
650	Enkakkad	Thalappally	Thrissur	Slightly Drought
651	Wadakkanchery	Thalappally	Thrissur	Slightly Drought
652	Cheranalloor	Kanayannur	Ernakulam	Severe Drought
653	Edapally North	Kanayannur	Ernakulam	Severe Drought
654	Mulavucad	Kanayannur	Ernakulam	Severe Drought
655	Eduppally South	Kanayannur	Ernakulam	Severe Drought
656	Ernakulom	Kanayannur	Ernakulam	Severe Drought
657	Elankulom	Kanayannur	Ernakulam	Severe Drought
658	Poonithura	Kanayannur	Ernakulam	Severe Drought
659	Nadamel	Kanayannur	Ernakulam	Severe Drought
660	Kalloorkad	Muvattupuzha	Ernakulam	Severe Drought
661	Fortkochi	Kochi	Ernakulam	Severe Drought
662	Mattancherry	Kochi	Ernakulam	Severe Drought
663	Manjalloor	Muvattupuzha	Ernakulam	Severe Drought
664	Thoppumpady	Kochi	Ernakulam	Severe Drought
665	Maradu	Kanayannur	Ernakulam	Severe Drought
666	Ramaswaram	Kochi	Ernakulam	Severe Drought
667	Edakochi	Kochi	Ernakulam	Severe Drought
668	Ayyampuzha	Aluva	Ernakulam	Moderate Drought
669	Karukatly	Aluva	Ernakulam	Moderate Drought

670	Kuttunpuzha	Kothimangalam	Ernakulam	Moderate Drought
671	Parakkadavu	Aluva	Ernakulam	Moderate Drought
672	Angamali	Aluva	Ernakulam	Moderate Drought
673	Malayatur	Aluva	Ernakulam	Moderate Drought
674	Puthesvelikara	Paravur	Ernakulam	Moderate Drought
675	Mattoor	Aluva	Ernakulam	Moderate Drought
676	Kalady	Aluva	Ernakulam	Moderate Drought
677	Chennamalgalom	Paravur	Ernakulam	Moderate Drought
678	Kombarad	Kunnathunael	Ernakulam	Moderate Drought
679	Kodanad	Kunnathunael	Ernakulam	Moderate Drought
680	Moothakunnam	Paravur	Ernakulam	Moderate Drought
681	Nodumpasseri	Aluva	Ernakulam	Moderate Drought
682	Kuzhupilly	Kochi	Ernakulam	Moderate Drought
683	Koovappady	Kunnathunael	Ernakulam	Moderate Drought
684	Kannukara	Paravur	Ernakulam	Moderate Drought
685	Vadekkekara	Paravur	Ernakulam	Moderate Drought
686	Paravur	Paravur	Ernakulam	Moderate Drought
687	Chelamattam	Kunnathunael	Ernakulam	Moderate Drought
688	Pallipuram	Kochi	Ernakulam	Moderate Drought
689	Vadakkumbhagom	Aluva	Ernakulam	Moderate Drought
690	Karumattur	Paravur	Ernakulam	Moderate Drought
691	Pindimana	Kothimangalam	Ernakulam	Moderate Drought
692	Chengamanad	Aluva	Ernakulam	Moderate Drought
693	Chowwara	Aluva	Ernakulam	Moderate Drought
694	Aluva East	Aluva	Ernakulam	Moderate Drought
695	Kizhakkumbhagom	Aluva	Ernakulam	Moderate Drought
696	Kottuvally	Paravur	Ernakulam	Moderate Drought
697	Kurempara	Kothimangalam	Ernakulam	Moderate Drought
698	Thekkumbhagom	Aluva	Ernakulam	Moderate Drought
699	Alengad	Paravur	Ernakulam	Moderate Drought
700	Kuzhupilly	Kochi	Ernakulam	Moderate Drought
701	Aluva West	Aluva	Ernakulam	Moderate Drought
702	Marampilly	Kunnathunael	Ernakulam	Moderate Drought
703	Ezhikara	Paravur	Ernakulam	Moderate Drought
704	Kadungallor	Paravur	Ernakulam	Moderate Drought
705	Edavanakad	Kochi	Ernakulam	Moderate Drought
706	Neriyamangalam	Kothimangalam	Ernakulam	Moderate Drought
707	Kothamangalam	Kothimangalam	Ernakulam	Moderate Drought
708	Varapuzha	Paravur	Ernakulam	Moderate Drought
709	Eloor	Paravur	Ernakulam	Moderate Drought
710	Nayarambalam	Kochi	Ernakulam	Moderate Drought
711	Thikkakkara North	Kanayannur	Ernakulam	Moderate Drought
712	Kadamakudy	Kanayannur	Ernakulam	Moderate Drought
713	Narakkal	Kochi	Ernakulam	Moderate Drought
714	Varapetty	Kothimangalam	Ernakulam	Moderate Drought
715	Vazhakkala	Kanayannur	Ernakulam	Moderate Drought
716	Elankunnapusha	Kochi	Ernakulam	Moderate Drought
717	Kakkanad	Kanayannur	Ernakulam	Moderate Drought

718	Kadavoor	Kothimangalam	Ernakulam	Moderate Drought
719	Aikaramad NOrth	Kunnathunael	Ernakulam	Moderate Drought
720	Enalallur	Muvattupuzha	Ernakulam	Moderate Drought
721	Velloorkunnam	Muvattupuzha	Ernakulam	Moderate Drought
722	Puthiocruz	Kunnathunael	Ernakulam	Moderate Drought
723	Valakom	Muvattupuzha	Ernakulam	Moderate Drought
724	Puthuvyip	Kochi	Ernakulam	Moderate Drought
725	Muvattupazha	Muvattupuzha	Ernakulam	Moderate Drought
726	Thiruvenkilom	Kanayannur	Ernakulam	Moderate Drought
727	Aikaranad SOutH	Kunnathunael	Ernakulam	Moderate Drought
728	Marady	Muvattupuzha	Ernakulam	Moderate Drought
729	Menuri	Muvattupuzha	Ernakulam	Moderate Drought
730	Thiruvaniyoor	Kunnathunael	Ernakulam	Moderate Drought
731	Arakuzha	Muvattupuzha	Ernakulam	Moderate Drought
732	Ramamangalam	Muvattupuzha	Ernakulam	Moderate Drought
733	Maneed	Muvattupuzha	Ernakulam	Moderate Drought
734	Thekkunobhagom	Kanayannur	Ernakulam	Moderate Drought
735	Kureekad	Kanayannur	Ernakulam	Moderate Drought
736	Pallurudhy	Kochi	Ernakulam	Moderate Drought
737	Manakunnam	Kanayannur	Ernakulam	Moderate Drought
738	Kumbalam	Kanayannur	Ernakulam	Moderate Drought
739	Mulanthuruthy	Kanayannur	Ernakulam	Moderate Drought
740	Piravam	Muvattupuzha	Ernakulam	Moderate Drought
741	Kumbalanghy	Kochi	Ernakulam	Moderate Drought
742	Amballur	Kanayannur	Ernakulam	Moderate Drought
743	Keecherry	Kanayannur	Ernakulam	Moderate Drought
744	Challanam	Kochi	Ernakulam	Moderate Drought
745	Kokkodhamangalam	Cherthala	Alapuzha	Severe Drought
746	Cherdhala North	Cherthala	Alapuzha	Severe Drought
747	Thanneermukkom South	Cherthala	Alapuzha	Severe Drought
748	Kalavoor	Ambalapuzha	Alapuzha	Severe Drought
749	Mannanchery	Ambalapuzha	Alapuzha	Severe Drought
750	Komalapuram	Ambalapuzha	Alapuzha	Severe Drought
751	Kailakary North	Kuttanad	Alapuzha	Severe Drought
752	Kavalam	Kuttanad	Alapuzha	Severe Drought
753	Aryad South	Ambalapuzha	Alapuzha	Severe Drought
754	Mullackal	Ambalapuzha	Alapuzha	Severe Drought
755	Pulimkunnu	Kuttanad	Alapuzha	Severe Drought
756	Kunnamma	Kuttanad	Alapuzha	Severe Drought
757	Neelamperoor	Kuttanad	Alapuzha	Severe Drought
758	Alappuzha West	Ambalapuzha	Alapuzha	Severe Drought
759	Kainakarg South	Kuttanad	Alapuzha	Severe Drought
760	Pazhaveedu	Ambalapuzha	Alapuzha	Severe Drought
761	Paravoor	Ambalapuzha	Alapuzha	Severe Drought
762	Veliyanad	Kuttanad	Alapuzha	Severe Drought
763	Nedumudi	Kuttanad	Alapuzha	Severe Drought
764	Chanbakulom	Kuttanad	Alapuzha	Severe Drought
765	Punnapra	Ambalapuzha	Alapuzha	Severe Drought

766	Ramankary	Kuttanad	Alapuzha	Severe Drought
767	Karumadi	Ambalapuzha	Alapuzha	Severe Drought
768	Muttar	Kuttanad	Alapuzha	Severe Drought
769	Edathuva	Kuttanad	Alapuzha	Severe Drought
770	Ambalapuzha	Ambalapuzha	Alapuzha	Severe Drought
771	ThaKAZHA	Kuttanad	Alapuzha	Severe Drought
772	Thalavadi	Kuttanad	Alapuzha	Severe Drought
773	Purakkad	Ambalapuzha	Alapuzha	Severe Drought
774	Thiruvanvandoor	Chengannur	Alapuzha	Severe Drought
775	Charuthana	Karthikapally	Alapuzha	Severe Drought
776	Karuvatta	Karthikapally	Alapuzha	Severe Drought
777	Chengannur	Chengannur	Alapuzha	Severe Drought
778	Pundanad	Chengannur	Alapuzha	Severe Drought
779	Veeyapuram	Karthikapally	Alapuzha	Severe Drought
780	Kurattissary	Chengannur	Alapuzha	Severe Drought
781	Ennakkad	Chengannur	Alapuzha	Severe Drought
782	Mannar	Chengannur	Alapuzha	Severe Drought
783	Mulakuzha	Chengannur	Alapuzha	Severe Drought
784	Puliyoor	Chengannur	Alapuzha	Severe Drought
785	Haripad	Karthikapally	Alapuzha	Severe Drought
786	Kumarapuram	Karthikapally	Alapuzha	Severe Drought
787	Thrikunnapuzha	Karthikapally	Alapuzha	Severe Drought
788	Tripperunthura	Mavelikara	Alapuzha	Severe Drought
789	Pallippad	Karthikapally	Alapuzha	Severe Drought
790	Chennithala	Mavelikara	Alapuzha	Severe Drought
791	Cheriyamad	Chengannur	Alapuzha	Severe Drought
792	Karthigappally	Karthikapally	Alapuzha	Severe Drought
793	Venmony	Chengannur	Alapuzha	Severe Drought
794	Tazhakkare	Mavelikara	Alapuzha	Severe Drought
795	Chingoli	Karthikapally	Alapuzha	Severe Drought
796	Kannamangalam	Mavelikara	Alapuzha	Severe Drought
797	Mavelikara	Mavelikara	Alapuzha	Severe Drought
798	Chappad	Karthikapally	Alapuzha	Severe Drought
799	Vettyar	Mavelikara	Alapuzha	Severe Drought
800	Arattupuzha	Karthikapally	Alapuzha	Severe Drought
801	Nurasad	Mavelikara	Alapuzha	Severe Drought
802	Pathiyur	Karthikapally	Alapuzha	Severe Drought
803	Kurikad	Karthikapally	Alapuzha	Severe Drought
804	Kandallur	Karthikapally	Alapuzha	Severe Drought
805	Kayamkulom	Karthikapally	Alapuzha	Severe Drought
806	Krishnapurom	Karthikapally	Alapuzha	Severe Drought
807	Puthuppally	Karthikapally	Alapuzha	Severe Drought
808	Ballikunnam	Mavelikara	Alapuzha	Severe Drought
809	Aroor	Cherthala	Alapuzha	Moderate Drought
810	Arookutty	Cherthala	Alapuzha	Moderate Drought
811	Ezhupunna	Cherthala	Alapuzha	Moderate Drought
812	Palavally	Cherthala	Alapuzha	Moderate Drought
813	Kodamthurudh	Cherthala	Alapuzha	Moderate Drought

814	Thykkattusseerry	Cherthala	Alapuzha	Moderate Drought
815	Luthiyathodu	Cherthala	Alapuzha	Moderate Drought
816	Thuravoor South	Cherthala	Alapuzha	Moderate Drought
817	Pallippuram	Cherthala	Alapuzha	Moderate Drought
818	Vayalar East	Cherthala	Alapuzha	Moderate Drought
819	Pattenakkad	Cherthala	Alapuzha	Moderate Drought
820	Kadakkarappally	Cherthala	Alapuzha	Moderate Drought
821	Thanneermukkom North	Cherthala	Alapuzha	Moderate Drought
822	Manjoor	Vaikom	Kottayam	Severe Drought
823	Kallara	Vaikom	Kottayam	Severe Drought
824	Kanakkari	Meenachil	Kottayam	Severe Drought
825	Onamdthuruthu	Kottayam	Kottayam	Severe Drought
826	Vechoor	Vaikom	Kottayam	Severe Drought
827	Athirampuzha	Kottayam	Kottayam	Severe Drought
828	Kaipuzha	Kottayam	Kottayam	Severe Drought
829	Peroor	Kottayam	Kottayam	Severe Drought
830	Arpookara	Kottayam	Kottayam	Severe Drought
831	Ayimanam	Kottayam	Kottayam	Severe Drought
832	Perembaikad	Kottayam	Kottayam	Severe Drought
833	Kumarakom	Kottayam	Kottayam	Severe Drought
834	Muttambalam	Kottayam	Kottayam	Severe Drought
835	Chengalam	Kottayam	Kottayam	Severe Drought
836	Kottayam	Kottayam	Kottayam	Severe Drought
837	Muttambalam	Kottayam	Kottayam	Severe Drought
838	Thiruvappu	Kottayam	Kottayam	Severe Drought
839	Velloor	Kottayam	Kottayam	Severe Drought
840	Nattakom	Kottayam	Kottayam	Severe Drought
841	Puthupally	Kottayam	Kottayam	Severe Drought
842	Panchikad	Kottayam	Kottayam	Severe Drought
843	Kurichi	Changanassery	Kottayam	Severe Drought
844	Vazhapalli West	Changanassery	Kottayam	Severe Drought
845	Vazhapalli East	Changanassery	Kottayam	Severe Drought
846	Changanassary	Changanassery	Kottayam	Severe Drought
847	Mulakulam	Vaikom	Kottayam	Moderate Drought
848	Velloor	Vaikom	Kottayam	Moderate Drought
849	Chempu	Vaikom	Kottayam	Moderate Drought
850	Vellilappally	Meenachil	Kottayam	Moderate Drought
851	Kulasekharamangalam	Vaikom	Kottayam	Moderate Drought
852	Vadayar	Vaikom	Kottayam	Moderate Drought
853	Kadudhurudhy	Vaikom	Kottayam	Moderate Drought
854	Vadakkemuri	Vaikom	Kottayam	Moderate Drought
855	Bharananganam	Meenachil	Kottayam	Moderate Drought
856	Naduvila	Vaikom	Kottayam	Moderate Drought
857	Lalam	Meenachil	Kottayam	Moderate Drought
858	Muttuchira	Vaikom	Kottayam	Moderate Drought
859	Kodhanalloor	Vaikom	Kottayam	Moderate Drought
860	Vaikom	Vaikom	Kottayam	Moderate Drought
861	Thalayazham	Vaikom	Kottayam	Moderate Drought

862	Thulappalam	Meenachil	Kottayam	Moderate Drought
863	Puliyannur	Meenachil	Kottayam	Moderate Drought
864	Kidingoor	Meenachil	Kottayam	Moderate Drought
865	Irattupettah	Meenachil	Kottayam	Moderate Drought
866	Meenachil	Meenachil	Kottayam	Moderate Drought
867	Poovarani	Meenachil	Kottayam	Moderate Drought
868	Kondoor	Meenachil	Kottayam	Moderate Drought
869	Ettumanur	Kottayam	Kottayam	Moderate Drought
870	Koottickal	Kanjirapally	Kottayam	Moderate Drought
871	Ayarkunnam	Kottayam	Kottayam	Moderate Drought
872	Akalakunnam	Kottayam	Kottayam	Moderate Drought
873	Manarcad	Kottayam	Kottayam	Moderate Drought
874	Kooropada	Kottayam	Kottayam	Moderate Drought
875	Mundakayam	Kanjirapally	Kottayam	Moderate Drought
876	Edakunnam	Kanjirapally	Kottayam	Moderate Drought
877	Kanjirapally	Kanjirapally	Kottayam	Moderate Drought
878	Chirakadavu	Kanjirapally	Kottayam	Moderate Drought
879	Koovapally	Kanjirapally	Kottayam	Moderate Drought
880	Erumeli North	Kanjirapally	Kottayam	Moderate Drought
881	Vellayur	Changanassery	Kottayam	Moderate Drought
882	Erumeli South	Kanjirapally	Kottayam	Moderate Drought
883	Manimala	Kanjirapally	Kottayam	Moderate Drought
884	Mannamkandam	Devikulam	Idukki	Severe Drought
885	Chinnakanal	Udumbonchola	Idukki	Severe Drought
886	Bisonvally	Udumbonchola	Idukki	Severe Drought
887	Kunnjithannuy	Devikulam	Idukki	Severe Drought
888	Vannappuram	Todupuzha	Idukki	Severe Drought
889	Rajakumari	Udumbonchola	Idukki	Severe Drought
890	Kanjikuzhy	Todupuzha	Idukki	Severe Drought
891	Poopara	Udumbonchola	Idukki	Severe Drought
892	Vellathooval	Devikulam	Idukki	Severe Drought
893	Kodikulam	Todupuzha	Idukki	Severe Drought
894	Rajakadu	Udumbonchola	Idukki	Severe Drought
895	Kumaramangalam	Todupuzha	Idukki	Severe Drought
896	Konnathady	Udumbonchola	Idukki	Severe Drought
897	Sandhampara	Udumbonchola	Idukki	Severe Drought
898	Udumbannoor	Todupuzha	Idukki	Severe Drought
899	Gandhipara	Udumbonchola	Idukki	Severe Drought
900	Neyyassery	Todupuzha	Idukki	Severe Drought
901	Todupuzha	Todupuzha	Idukki	Severe Drought
902	Vathikudy	Udumbonchola	Idukki	Severe Drought
903	Idukki	Todupuzha	Idukki	Severe Drought
904	Udumbanchola	Udumbonchola	Idukki	Severe Drought
905	Karikode	Todupuzha	Idukki	Severe Drought
906	Manakkad	Todupuzha	Idukki	Severe Drought
907	Upputhoda	Udumbonchola	Idukki	Severe Drought
908	Parathodu	Udumbonchola	Idukki	Severe Drought
909	Alakode	Todupuzha	Idukki	Severe Drought

910	Kalkunthal	Udumbonchola	Idukki	Severe Drought
911	Karinkunnam	Todupuzha	Idukki	Severe Drought
912	Thankamany	Udumbonchola	Idukki	Severe Drought
913	Velliamattom	Todupuzha	Idukki	Severe Drought
914	Muttam	Todupuzha	Idukki	Severe Drought
915	Ayyappancoil	Udumbonchola	Idukki	Severe Drought
916	Kudayathoor	Todupuzha	Idukki	Severe Drought
917	Arakulam	Todupuzha	Idukki	Severe Drought
918	Karunapuram	Udumbonchola	Idukki	Severe Drought
919	Elappilly	Todupuzha	Idukki	Severe Drought
920	Kumily	Peermed	Idukki	Severe Drought
921	Milapra	Peermed	Idukki	Severe Drought
922	Marayoor	Devikulam	Idukki	Moderate Drought
923	Keezhanthoor	Devikulam	Idukki	Moderate Drought
924	Kantallor	Devikulam	Idukki	Moderate Drought
925	Manakulam	Devikulam	Idukki	Moderate Drought
926	Upputhara	Peermed	Idukki	Moderate Drought
927	Anavilasom	Udumbonchola	Idukki	Moderate Drought
928	Elappara	Peermed	Idukki	Moderate Drought
929	Manjamala	Peermed	Idukki	Moderate Drought
930	Periyar	Peermed	Idukki	Moderate Drought
931	Kokkayar	Peermed	Idukki	Moderate Drought
932	Puruvanthanam	Peermed	Idukki	Moderate Drought
933	Anikkaad	Mallappally	Pathanamthitta	Severe Drought
934	Kottangl	Mallappally	Pathanamthitta	Severe Drought
935	Chittar Seethathodu	Ranni	Pathanamthitta	Severe Drought
936	Mallappally	Mallappally	Pathanamthitta	Severe Drought
937	Perund	Ranni	Pathanamthitta	Severe Drought
938	Kalloopara	Mallappally	Pathanamthitta	Severe Drought
939	Angadi	Ranni	Pathanamthitta	Severe Drought
940	Kavigoor	Thiruvalla	Pathanamthitta	Severe Drought
941	Pazhavangadi	Ranni	Pathanamthitta	Severe Drought
942	Kavumbhagam	Thiruvalla	Pathanamthitta	Severe Drought
943	Kuttapuzha	Thiruvalla	Pathanamthitta	Severe Drought
944	Puramatton	Mallappally	Pathanamthitta	Severe Drought
945	Athikayam	Ranni	Pathanamthitta	Severe Drought
946	Peringara	Thiruvalla	Pathanamthitta	Severe Drought
947	Thiruvalla	Thiruvalla	Pathanamthitta	Severe Drought
948	Ayroom	Ranni	Pathanamthitta	Severe Drought
949	Eraviperoor	Thiruvalla	Pathanamthitta	Severe Drought
950	Nedumpuram	Thiruvalla	Pathanamthitta	Severe Drought
951	Thottapuzhassery	Thiruvalla	Pathanamthitta	Severe Drought
952	Koyapuram	Thiruvalla	Pathanamthitta	Severe Drought
953	Ranni	Ranni	Pathanamthitta	Severe Drought
954	Vadasserikara	Ranni	Pathanamthitta	Severe Drought
955	Kuttoor	Thiruvalla	Pathanamthitta	Severe Drought
956	Kadapra	Thiruvalla	Pathanamthitta	Severe Drought
957	Cherukole	Ranni	Pathanamthitta	Severe Drought

958	Kozhanchery	Kozhenchery	Pathanamthitta	Severe Drought
959	Niranam	Thiruvalla	Pathanamthitta	Severe Drought
960	Aranmula	Kozhenchery	Pathanamthitta	Severe Drought
961	Mallappuzhasseri	Kozhenchery	Pathanamthitta	Severe Drought
962	Malayalapurza	Kozhenchery	Pathanamthitta	Severe Drought
963	Thannithode	Kozhenchery	Pathanamthitta	Severe Drought
964	Pathamthitta	Kozhenchery	Pathanamthitta	Severe Drought
965	Mezhuveli	Kozhenchery	Pathanamthitta	Severe Drought
966	Kulanada	Kozhenchery	Pathanamthitta	Severe Drought
967	Chunnirkara	Kozhenchery	Pathanamthitta	Severe Drought
968	Konnithazham	Kozhenchery	Pathanamthitta	Severe Drought
969	Omanur	Kozhenchery	Pathanamthitta	Severe Drought
970	Pramadam	Kozhenchery	Pathanamthitta	Severe Drought
971	Aruvapalam	Kozhenchery	Pathanamthitta	Severe Drought
972	Airavon	Kozhenchery	Pathanamthitta	Severe Drought
973	Konni	Kozhenchery	Pathanamthitta	Severe Drought
974	Vallikkod	Kozhenchery	Pathanamthitta	Severe Drought
975	Pandalam	Adoor	Pathanamthitta	Severe Drought
976	Kurampala	Adoor	Pathanamthitta	Severe Drought
977	Pardalomthekakara	Adoor	Pathanamthitta	Severe Drought
978	Enadh	Adoor	Pathanamthitta	Severe Drought
979	Kadampnad	Adoor	Pathanamthitta	Severe Drought
980	Kollamula	Ranni	Pathanamthitta	Moderate Drought
981	Punnala	Pathanapuram	Kollam	Severe Drought
982	Piravanthor	Pathanapuram	Kollam	Severe Drought
983	Pavumba	Karunagapally	Kollam	Severe Drought
984	Padhanapuram	Pathanapuram	Kollam	Severe Drought
985	Edamon	Pathanapuram	Kollam	Severe Drought
986	Alappad	Karunagapally	Kollam	Severe Drought
987	Clappara	Karunagapally	Kollam	Severe Drought
988	Thenmala	Pathanapuram	Kollam	Severe Drought
989	Maloor	Pathanapuram	Kollam	Severe Drought
990	Kulasekharapuram	Karunagapally	Kollam	Severe Drought
991	Aryankavu	Pathanapuram	Kollam	Severe Drought
992	Thodiyoor	Karunagapally	Kollam	Severe Drought
993	Sooranad South	Kunnathur	Kollam	Severe Drought
994	Kunnathur	Kunnathur	Kollam	Severe Drought
995	Pattazha	Pathanapuram	Kollam	Severe Drought
996	Kalayapuram	Kottarakkara	Kollam	Severe Drought
997	Kulakkada	Kottarakkara	Kollam	Severe Drought
998	Pidavoor	Pathanapuram	Kollam	Severe Drought
999	Athinad	Karunagapally	Kollam	Severe Drought
1000	Karunagapally	Karunagapally	Kollam	Severe Drought
1001	Sasthamcotta	Kunnathur	Kollam	Severe Drought
1002	Kallelibhagam	Karunagapally	Kollam	Severe Drought
1003	Mynagappally	Kunnathur	Kollam	Severe Drought
1004	Pavithreswaram	Kottarakkara	Kollam	Severe Drought
1005	Puthur	Kottarakkara	Kollam	Severe Drought

1006	Ayanivelikulangara	Karunagapally	Kollam	Severe Drought
1007	Vadkkumthala	Karunagapally	Kollam	Severe Drought
1008	Vilokudr	Pathanapuram	Kollam	Severe Drought
1009	Valakkod	Pathanapuram	Kollam	Severe Drought
1010	Punalur	Pathanapuram	Kollam	Severe Drought
1011	West Kalada	Kunnathur	Kollam	Severe Drought
1012	Thevalakara	Karunagapally	Kollam	Severe Drought
1013	Panmana	Karunagapally	Kollam	Severe Drought
1014	East Kallada	Kollam	Kollam	Severe Drought
1015	Manrothuruthu	Kollam	Kollam	Severe Drought
1016	Mulavana	Kollam	Kollam	Severe Drought
1017	Chavara	Karunagapally	Kollam	Severe Drought
1018	Airanallur	Pathanapuram	Kollam	Severe Drought
1019	Thekkumbhagam	Karunagapally	Kollam	Severe Drought
1020	Thingalkarikkom	Pathanapuram	Kollam	Severe Drought
1021	Kulathupuzha	Pathanapuram	Kollam	Severe Drought
1022	Panayan	Kollam	Kollam	Severe Drought
1023	Thrikkaruva	Kollam	Kollam	Severe Drought
1024	Perinad	Kollam	Kollam	Severe Drought
1025	Alchal	Pathanapuram	Kollam	Severe Drought
1026	Nundakara	Karunagapally	Kollam	Severe Drought
1027	Sakthakulongara	Kollam	Kollam	Severe Drought
1028	Elamadu	Kottarakkara	Kollam	Severe Drought
1029	Thrikkadavoor	Kollam	Kollam	Severe Drought
1030	Edamuluckal	Pathanapuram	Kollam	Severe Drought
1031	Mangad	Kollam	Kollam	Severe Drought
1032	Thrikkovilvattom	Kollam	Kollam	Severe Drought
1033	Pooyappally	Kottarakkara	Kollam	Severe Drought
1034	Kollam	Kollam	Kollam	Severe Drought
1035	Kottakkal	Kottarakkara	Kollam	Severe Drought
1036	Velinalloor	Kottarakkara	Kollam	Severe Drought
1037	Vadakkevila	Kollam	Kollam	Severe Drought
1038	Chadayamangalam	Kottarakkara	Kollam	Severe Drought
1039	Thazhuthala	Kollam	Kollam	Severe Drought
1040	Adichanalloor	Kollam	Kollam	Severe Drought
1041	Mundakkd	Kollam	Kollam	Severe Drought
1042	Meenad	Kollam	Kollam	Severe Drought
1043	Mayyanad	Kollam	Kollam	Severe Drought
1044	Kallevathukkal	Kollam	Kollam	Severe Drought
1045	Iravipural	Kollam	Kollam	Severe Drought
1046	Paravoor	Kollam	Kollam	Severe Drought
1047	Chirakkara	Kollam	Kollam	Severe Drought
1048	Poothakulam	Kollam	Kollam	Severe Drought
1049	Kottapuram	Kollam	Kollam	Severe Drought
1050	Pallikkal	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1051	Peringamala	Nedumangad	Thiruvananthapuram	Severe Drought
1052	Ayirur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1053	Thennur	Nedumangad	Thiruvananthapuram	Severe Drought

1054	Edava	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1055	Pulimathu	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1056	Venkala	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1057	Ottur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1058	Kallara	Nedumangad	Thiruvananthapuram	Severe Drought
1059	Nagarur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1060	Koduvazhaninur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1061	Vamanapuram	Nedumangad	Thiruvananthapuram	Severe Drought
1062	Manampur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1063	Vettur_cherunniyur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1064	Alankode	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1065	Pullampara	Nedumangad	Thiruvananthapuram	Severe Drought
1066	Palode	Nedumangad	Thiruvananthapuram	Severe Drought
1067	Ilampi-Mundakkal	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1068	Kizhattangl	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1069	Nallanad	Nedumangad	Thiruvananthapuram	Severe Drought
1070	Vidura	Nedumangad	Thiruvananthapuram	Severe Drought
1071	Ahiligil-Avanavachery	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1072	Kadakkavur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1073	Chirayinkizh	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1074	Kizhvalal Kuntalur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1075	Mannurkara	Nedumangad	Thiruvananthapuram	Severe Drought
1076	Veilur	Thiruvananthapuram	Thiruvananthapuram	Severe Drought
1077	Azhur	Chirayinkeezhu	Thiruvananthapuram	Severe Drought
1078	Aryanad	Nedumangad	Thiruvananthapuram	Severe Drought
1079	Kadinamkulam	Thiruvananthapuram	Thiruvananthapuram	Severe Drought
1080	Uzhamalakkal	Nedumangad	Thiruvananthapuram	Severe Drought
1081	Pallipuram	Thiruvananthapuram	Thiruvananthapuram	Severe Drought
1082	Vazhichal	Neyyattinkara	Thiruvananthapuram	Severe Drought
1083	Vellanad	Nedumangad	Thiruvananthapuram	Severe Drought
1084	Kazhakuttom Menomkulam	Thiruvananthapuram	Thiruvananthapuram	Severe Drought
1085	Aruvikar	Nedumangad	Thiruvananthapuram	Severe Drought
1086	Parumkulam	Nedumangad	Thiruvananthapuram	Severe Drought
1087	Attipra	Thiruvananthapuram	Thiruvananthapuram	Severe Drought
1088	Kallikkad	Neyyattinkara	Thiruvananthapuram	Severe Drought
1089	Veerankavu	Nedumangad	Thiruvananthapuram	Severe Drought
1090	Velappil	Neyyattinkara	Thiruvananthapuram	Severe Drought
1091	Amboory	Neyyattinkara	Thiruvananthapuram	Severe Drought
1092	Kulathummel	Neyyattinkara	Thiruvananthapuram	Severe Drought
1093	Ottasekharamangalam	Neyyattinkara	Thiruvananthapuram	Severe Drought
1094	Maranallur	Neyyattinkara	Thiruvananthapuram	Severe Drought
1095	Keezharoor	Neyyattinkara	Thiruvananthapuram	Severe Drought
1096	Perumpazhuthur	Neyyattinkara	Thiruvananthapuram	Severe Drought
1097	Perumkadavila	Neyyattinkara	Thiruvananthapuram	Severe Drought
1098	Kottakal	Neyyattinkara	Thiruvananthapuram	Severe Drought
1099	Venganur	Thiruvananthapuram	Thiruvananthapuram	Severe Drought
1100	Neyyattinkara	Neyyattinkara	Thiruvananthapuram	Severe Drought
1101	Vizhingim	Neyyattinkara	Thiruvananthapuram	Severe Drought

1102	Chenkal	Neyyattinkara	Thiruvananthapuram	Severe Drought
1103	Parasuvaikkal	Neyyattinkara	Thiruvananthapuram	Severe Drought
1104	Kanjsramkulam	Neyyattinkara	Thiruvananthapuram	Severe Drought
1105	Thirupuram	Neyyattinkara	Thiruvananthapuram	Severe Drought
1106	Karinkulam	Neyyattinkara	Thiruvananthapuram	Severe Drought
1107	Karode	Neyyattinkara	Thiruvananthapuram	Severe Drought
1108	Kulathur	Neyyattinkara	Thiruvananthapuram	Severe Drought
1109	Cheruvikkal	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1110	Kadagampally	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1111	Vilavurkkal	Neyyattinkara	Thiruvananthapuram	Moderate Drought
1112	Thaicad	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1113	Thirumala	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1114	Pettah	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1115	Nemom	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1116	Manacaud	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1117	Muttathara	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1118	Thiruvallam	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought
1119	Kallaiyar	Thiruvananthapuram	Thiruvananthapuram	Moderate Drought

ANNEXURE 3: DETAILS OF DROUGHT RELIEF WORKS INITIATED BY THIRUVANANTHAPURAM, KOLLAM, IDUKKI AND WAYANAD DISTRICTS

Periods: _____

Emergency works proposed & approximate cost estimates thereon (in Lakhs)

Contingency Action Plan to tackle drought in Kerala (Urbans)				Emergency works proposed & approximate cost estimates thereon (in Lakhs)	
Sl No.	District	Town/City	No. of U.L.B affected	No.	Anticipated Cost
1	Thiruvananthapuram				4000000
					45400000

[Signature]
for District Collector
TUPAM

15 Oct. 2012 12:09 P 1
PHX NL : @1712730120

Drought relief measures initiated by District Collector, Kollam							
Sl No	District	Town/City	No. of Villages	No. of Villages Affected	Emergency works proposed & Approximate cost estimates thereon (Rs. in Lakhs)		
					Anticipated Cost	Actual Expenditure	Remarks
					Tanker Water Supply		
				No.	Anticipated Cost	Actual Expenditure	Remarks
1	Kollam (Urban)		104	20	250	Nil	
2	Kollam (Rural)		104	49	650	Nil	
3	Kollam (via KWA)		104	69	500	225.79988	AS issued for 113 works. Bill pending from KWA
4	Kollam (via GWD)	Kollam, Karunagapally, Kottarakara, Kunnathur, Pathanpaurm Taluks			50 tube wells	250	AS issued for 19 works. Bill pending
					1 rig	200	For digging of tube well for GWD
				1	dismantelled type DTH rig	60	For digging of bore well through GWD in rocky areas
Total					1910	285.05148	
							Sd/-
							District Collector

Stella

Contingency Action Plan to tackle drought in Idukki

Period: 2012-13

Sl No.	District	Town/City/Panchayat	No. of ULB	No. of ULB affected	Emergency works proposed & approximate cost estimates thereon		
					Cleaning of Well, Pipe Fitting, Maintenance of Well borewell, Other WSS etc	Anticipated Cost	Actual Exp
1			1 Thodupuzha Municipality	1	600000	183154	
2		Adimayy			300000	67544	
3		Konniathady					
4		Bleonvalkey					
5		Velathrooval					
6		Pallivasal					
7	Idukki	Mareyoor					
8		Kanthalloor					
9		Vattavada					
10		Serthampara					
11		Chinnakkanal					
12		Mankulam					
13		Dovikulam					
14		Edamalakudy					
15		Pambakkumpara					
16		Senapati					
17		Kaunapuram					
18	Idukki	Bejakkadu					
19		Nedumkandam					
20		Idumbanchola					

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Sheet

21	Rajakumari		8	450000	
22	Vannappuram		5	450000	
23	Kodukulam		4	250000	
24	Alakkodu		5	650000	
25	Velliyannalattam		6	750000	
26	Thirumanneer		6	800000	
27	Kudayathoor		6	450000	
28	Idukki Kamjukuzhy		6	500000	180611
29	Uzhilodey		4	100000	89633
30	Arakulam		4	250000	
31	Kamekothy		5	300000	107933
32	Vozhatthoppa		5	550000	23000
33	Mariyapuram		5	250000	34863
34	Kattappara		7	500000	108718
35	Uppulthara		8	450000	132335
36	Vandaramedu		5	500000	
37	Kanchiyar		6	500000	
38	Erattayar		5	450000	64333
39	Ayyappancci		4	450000	
40	Chekkupallam		6	600000	
41	Surmerangalam		8	550000	
42	Mullom		8	450000	
43	Sdavathy		4	500000	
44	Karinkunnam		6	600000	
45	Manakkodu		4	450000	
46	Purappazha		4	500000	
47	Paruvantharam		6	650000	
48	Kumily		6	550000	
49	Kokkayar		7	750000	
50	Cheramade		8	650000	
51	Elappara		7	700000	

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Sheet 3

Contingency Action Plan to tackle drought in Idilki

Period: 2012-13

Sl.No.	District	Town/City/ Panchayat	No. of ULB	No. of ULB affected	Emergency works proposed & approximate cost estimates thereon	
					Tanker Water Supply	Actual Exp
				No.	Anticipated Cost	
1			1	1	1800000	
2		Thodupuzha Municipality			2000	
3		Adimoly			1800	
4		Konnathady			1440000	
5		Blarvalley			1600	
6		Vellathooral			1440000	
7		Pallivasal			1700	
8		Marayoor			1530000	
9		Kanthalloor			1500	
10		Vaitavada			1350000	
11		Sarathipara			1600	
12		Chinnakkanni			1350000	
13		Manjaram			1350000	
14		Davilaram			1440000	
15		Edamalakudy			0	
16		Pambadimpala			1800	338000
17		Senepattil			1400	1440000
18		Kattumaram			1500	1350000
19		Harakkadus			1800	1820000
20		Medunkandam			1600	1440000
		Idumbanchola			1500	1440000

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21	Rajakumar				1700	1630000
22	Vannappuram				1600	1440000
23	Kodikulam				1600	1440000
24	Atakkodu				1500	1350000
25	Velliyammattam				1500	1350000
26	Karmanoor				1500	1350000
27	Kudayathoor				1500	1350000
28	Idukki Karjikuzhy				1500	1350000
29	Vathickudy				1500	1350000
30	Anakulam				1500	1350000
31	Kamakkaly	Idukki			1500	1350000
32	Vezhathopu				1500	1350000
33	Kariyapuram				1800	1440000
34	Katteppana				1800	1440000
35	Uppumara				1800	1440000
36	Vandanmedu				1800	1440000
37	Kanchiyar				1800	1440000
38	Erattoyar				1800	1440000
39	Ayyappanool				1400	1260000
40	Chakkuballam				1500	1350000
41	Kumaranganalam				1800	1440000
42	Muttom				1800	1440000
43	Edayally				1800	1440000
44	Kainkayam				1800	1440000
45	Marathickadu				1800	1440000
46	Punappuzha				1800	1440000
47	Puvayalattam				1800	1440000
48	Kumily				1800	1440000
49	Kokkayar				1700	1530000
50	Poomedu				1800	1620000
51	Elappara				1800	1620000

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Contingency Action Plan to tackle drought in Wayand

Period:

10/12

Sl. No.	District	Town/City	No. of ULB affected	Emergency works proposed & approximate cost estimates thereon (Rs. in Lakh)		
				Tanker Water Supply		
				No.	Anticipated Cost	Actual Exp
1	Wayand	Muttill				
2	"	Kalpetta				
3	"	Cheeral				
4	"	Thrikkaipetta				
5	"	Thomattucal				
6	"	Kottappady				
7	"	Padichira				
8	"	Kidangad				
9	"	Irulam				
10	"	Nadavayal			10 Crore	
11	"	Kaniyambetta				
12	"	Poothadi				
13	"	Purakkadi				
14	"	Kuppady				
15	"	Krishnagiri				
16	"	Sulthan Bathery				
17	"	Muttill North				
18	"	Nenmeni				
19	"	Ambalavayal				

hlo
District Collector,
Wayanad.

ANNEXURE 4: DETAILS OF WORKS INITIATED BY KERALA WATER AUTHORITY IN THIRUVANANATHAPURAM, KOLLAM, IDUKKI AND WAYANAD

No	Name of Scheme	Location (Dist/Block)	New or Renovation	Brief Description of Works proposed	Estimated Cost (in Lakhs) As per latest SOR	Time Required for Construction (Months)
PUBLIC HEALTH DIVISION, THIRUVANANTHAPURAM						
Water Works Sub Division, Kuriathy						
1	Maintenance of KTM	Thiruvananthapuram	Renovation	Reconditioning of alum & lime mixing agitator unit at the WTP	0.88	30 days
2	Maintenance of KTM	Thiruvananthapuram	Renovation	Urgent replacement of alum & lime mixing agitator unit at WTP, Vandithadam	1.15	30 days
3	RWSS to Pachalloor	Thiruvananthapuram	New	Fixing new panel board at Pachalloor pump house	0.47	30 days
4	Maintenance of TWSS	Thiruvananthapuram	Renovation	Rewinding and reconditioning of 90 HP open well submersible pump set at Thiruvallam pump house	2.18	30 days
5	Maintenance of KTM	Thiruvananthapuram	Renovation	Rewinding & reconditioning 20 HP submersible pump set at Kakkamoola	0.99	30 days
6	Maintenance of KTM	Thiruvananthapuram	Renovation	Rewinding & reconditioning 60 HP submersible pump set at Kayal pump house	1.43	30 days
7	Maintenance of TWSS	Thiruvananthapuram	Renovation	Repairing, rewinding & overhauling of 100 HP slipring motor at Thiruvallam pump house	1.44	30 days
8	RWSS to Pachalloor	Thiruvananthapuram	Renovation	Interconnection works at Thiruvallam for connecting JNNURM line to Pachalloor area	1.00	30 days
9	Maintenance of KTM	Thiruvananthapuram	Renovation	Relaying 800m, 200mm CI pumping main from Kayal pump house	1.00	45 days
10	Maintenance of KTM	Thiruvananthapuram	Renovation	Renovation of Kuzhy pump house	10.00	45 days
11	Maintenance of TWSS	Thiruvananthapuram	New	Procuring 100 HP Centrifugal pump at Thiruvallam pump house	10.00	45 days
12	1) Maintenance of KTM	Thiruvananthapuram	New	Providing standby pump sets at Vandithadam plant 25 HP & 40 HP	8.00	45 days
13	2) RWSS to Pachalloor	Thiruvananthapuram	New	Providing standby pump sets at Kuzhy pump house and Pachalloor pump house 22.5 HP	9.00	45 days

14	Maintenance of KTM	Thiruvananthapuram	Renovation	Repacking filter media in the water treatment plant at Vandithadam	7.00	45 days
15	Maintenance of TWSS	Thiruvananthapuram	New	Laying 200mm PVC pipe line from Iranimuttom (JICA tank) to Puthenkotta	10.55	45 days
16	Maintenance of KTM	Thiruvananthapuram	Renovation	Cleaning the intake wells including 1 removing slush, slurry, fixing perant ladder 2 Nos, Vandithadam	4.00	30 days
17	Maintenance of TWSS	Thiruvananthapuram	Renovation	Permanent disconnection of disconnected connections	1.00	45 days
18	Maintenance of KTM	Thiruvananthapuram	New	Providing infiltration gallery for the well in Kayal	20.00	45 days
19	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing old 80mm GI culvert crossing to improve water supply to seculat gardents, Muttathara	0.15	30 days
20	Maintenance of TWSS	Thiruvananthapuram	New	Fixing new valves, replacing damaged valves, construction of valve chamber (20 Nos)	12.60	45 days
21	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing chocked 200mm cast iron pipe line in Bangladesh Colony with 200mm PVC pipe - 400m	6.00	30 days
22	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50mm old GI pipe line along mosque lane 63mm PVC, 600m	4.50	30 days
23	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing old 50mm old GI pipe along Muttakkada road, Thampanoor with 63mm PVC 1000m	6.00	45 days
24	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing old PVC pipe line to Kovalam beach area altering the existing connection for	6.00	45 days
25	RWSS to Pachalloor	Thiruvananthapuram	Renovation	Providing micro filter unit of 2.00 mld	84.06	45 days
26	Maintenance of KTM	Thiruvananthapuram	Renovation	Providing micro filter unit of 3.00 mld	138.40	45 days
27	Maintenance of KTM	Thiruvananthapuram	Renovation	Electrical re-wiring	3.00	15 days
Water Works East Sub Division, PTP Nagar						
28	Maintenance of TWSS	Thiruvananthapuram	New	Providing interconnection between 1118 MS JICA pipeline and 600mm existing CI pipeline at Poojapura for improving	10.00	30 days

				W.S to Poojapura/Karamana areas		
29	Maintenance of TWSS	Thiruvananthapuram	New	Purchasing 5000 liter water tanker 2 nos to ensure water supply during drought season	16.00	45 days
30	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacement of undersized main from Thoppumukku to Vellaikadavu road - 2000m	25.00	45 days
31	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing choked CI pipeline at Karamana - Thaliyal road	15.00	45 days
32	Maintenance of TWSS	Thiruvananthapuram	Renovation	Altering damaged and undersized pipe main along Kattachal in Nedumcaud ward - 400m	2.80	30 days
33	RWSS to Nemom	Thiruvananthapuram	New	Supplying 60 HP pumpset to Thrikannapuram pump house for Santhivila Scheme	12.00	45 days
34	RWSS to Nemom	Thiruvananthapuram	New	Supplying 75 HP pumpset to Thrikannapuram pump house for improving water supply to Pappanamcode/Industrial estate area/Poozhikunnu areas.	15.00	45 days
35	Maintenance of TWSS	Thiruvananthapuram	Renovation	Providing additional vending point at PTP	15.00	45 days
Water Works North Sub Division Kowdiar						
36	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacement of old 7.5 HP centrifugal pump set at Cliff house pump house	2.50	45 days
37	Maintenance of TWSS	Thiruvananthapuram	New	Laying 90mm PVC along Kunnath Temple lane 1000m	6.00	45 days
38	Maintenance of TWSS	Thiruvananthapuram	New	Laying 75mm PVC at Kaithavilakam - Peroorkada - 200m	1.50	30 days
39	Maintenance of TWSS	Thiruvananthapuram	New	Laying 75mm PVC at Devi Nagar - Mannamoola 200m Kaithavilakam - Peroorkada - 200m	1.50	30 days

40	Maintenance of TWSS	Thiruvananthapuram	New	Laying 75mm PVC to K.K.Garden, Peroorkada from Mannamoola Road - 380m at Devi Nagar - Mannamoola 200m Kaithavilakam - Peroorkada - 200m	3.00	30 days
41	Maintenance of TWSS	Thiruvananthapuram	New	Laying 63mm PVC at Indira Nagar - NV Nagar 300m	2.00	30 days
42	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing damaged 150mm AC from Arasumoodu Jn - Thampuran mukku - 150m (Tar restoration - 20 L)	25.00	30 days
43	Karikkakom WSS	Thiruvananthapuram	Renovation	Replaced damaged AC line along Karikkakom - Karikkakom Temple - 1200m	6.00	45 days
44	RWSS to Powdikonam	Thiruvananthapuram	New	Interconnecting Keraladithyapuram line with distribution of Powdikonam scheme	0.60	30 days
45	Karikkakom WSS	Thiruvananthapuram	New	Digging of tube well and providing pump set at Karikkakom pump house	6.00	30 days
46	Maintenance of TWSS	Thiruvananthapuram	New	Supply and erection of 15 HP pump set at Prasanth Nagar	5.00	45 days
47	Maintenance of TWSS	Thiruvananthapuram	Renovation	Improving water supply at Gandhi Nagar Manivila by providing new pipe line from Manvila tank	5.00	30 days
48	Maintenance of TWSS	Thiruvananthapuram	New	Providing interconnection to Pangappara Sangeetha Nagar from Ambedkar puram 500m 110 PVC pipe	2.00	30 days
49	Maintenance of TWSS	Thiruvananthapuram	New	Providing new connection to W.S. line to Savarkar Colony Ambedkarpuram	1.20	30 days
50	Maintenance of TWSS	Thiruvananthapuram	New	Interconnecting JBIC line to 160 PVC line to Technopark (To isolate supply to Techopark and improve W.S. to local areas)	0.50	30 days
51	Maintenance of TWSS	Thiruvananthapuram	New	Interconnection of JBIC line with newly distribution	10.00	45 days
52	Maintenance of TWSS	Thiruvananthapuram	New	Valve Chambers	18.90	45 days

53	Maintenance of TWSS	Thiruvananthapuram	New	Marikkar lane 63mm PVC line 125m	0.50	30 days
54	Maintenance of TWSS	Thiruvananthapuram	New	Pipeline extension to Chshire home E lane	0.60	30 days
Water Works Central Sub Division, Palayam						
55	Maintenance of TWSS	Thiruvananthapuram	New	Interconnection of existing 700mm premo main to the existing 175mm CI and 400mm premo lines at Vellayambalam Junction	7.50	30 days
56	Maintenance of TWSS	Thiruvananthapuram	New	Interconnectin existing 315 HDPE line to the 250mm HDPE line at Medical College sump	1.50	30 days
57	Maintenance of TWSS	Thiruvananthapuram	Renovation	Alteration of WS connections at Chennaiode colony to the existing 90mm PVC line laid by JNNURM	1.50	30 days
58	Maintenance of TWSS	Thiruvananthapuram	New	Supply of 110 HP Centrifugal pump motor (Kirlosker brand) and coupling with the existing pump (Filter house)	12.00	45 days
59	Maintenance of TWSS	Thiruvananthapuram	New	Supply of 150 HP Centrifugal pump suitable for the existing motor including changing the suction and delivery sides from 150mm to 250mm and replacing the existing 150mm NRV an S/V to 250mm size (Filter House)	13.00	45 days
60	Maintenance of TWSS	Thiruvananthapuram	New	Construction of new valve chambers and raising the existing valve chambers	8.00	45 days
61	Maintenance of TWSS	Thiruvananthapuram	Renovation	Changing the existing old and damaged electric cables in the pump house (Filter House)	0.50	30 days
62	Maintenance of TWSS	Thiruvananthapuram	New	Interconnection from 700mm CI line at Vellayambalam to 400mm CI line at Manaveeyam Road	50.00	45 days
63	Maintenance of TWSS	Thiruvananthapuram	New	Tanker lorry supply to the following places a. Burma Road, Avittom Road, Chennaiodu	2.20	30 days

64	Maintenance of TWSS	Thiruvananthapuram	New	Tanker lorry supply to the following places. Hiltop Colony near KIMS Hospital	2.20	30 days
65	Maintenance of TWSS	Thiruvananthapuram	New	Interconnection existing 215 HDPE line to the 150mm HDPE line at Pothujanam Road Jn.	1.50	30 days
66	Maintenance of TWSS	Thiruvananthapuram	New	Laying new 110mm PVC line from Museum Junction to RKV lane (550m)	4.00	30 days
67	Maintenance of TWSS	Thiruvananthapuram	New	Laying rider main at the back side of Titanium Factory using 110mm PVC pipe (400m)	8.00	30 days
68	Maintenance of TWSS	Thiruvananthapuram	New	Laying pipe line extension at Tutors lane using 160mm PVC pipe (1200) statue area	12.00	45 days
69	Maintenance of TWSS	Thiruvananthapuram	New	Construction of valve chambers and fixing new valves at different locations (Total 22 sites X 63,000/each)	13.86	45 days
70	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing the damaged AC pipeline using 110mm/90mm PVC pipe along Chakka, Karikkakam area 2000m	9.00	45 days
71	Maintenance of TWSS	Thiruvananthapuram	New	Rider main seacillakam - Vettukadu are using 110mm PVC pipe - 500m	8.00	30 days
72	Maintenance of TWSS	Thiruvananthapuram	New	Laying existing at Chakka - Enchakal road 2500m using 200mm PVC pipe	40.00	30 days
				Total	754.16	
Replacing old and damaged pipes						
73	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 215mm HDPE - Theerapadham lane along Pathirapalli to Mannanthala with 200mm DI / K9 lane - 2000 m	235.00	45 days
74	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 150mm old AC line along Oonnampara to Poomalliyoorkonam with 160 PVC - 300m	7.00	15 days
75	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50mm/40mm/25mm GI pipe with 110mm PVC pipe, 2000m at Thoppumukku - Vellaikadavu road	28.00	45 days

76	Maintenance of TWSS	Thiruvananthapuram	Renovation	Rehabilitation of WS line along Karamana - Thaliyal road - replacement of 100mm CI choked line for 1500 m	15.00	30 days
77	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing choked 200 mm CI line in Bangladesh Colony to Valiyathura with 200 PVC - 400m	3.40	15 days
78	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 100 mm AC line along Mosque lane, Thampanoor with 110 PVC - 900m	3.25	15 days
79	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 125mm AC line along Bakery - KBSC jn (Paris road) with 160 PVC - 600m	6.50	15 days
80	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50mm GI line along Lenin Nagar with 75 PVC - 100m	1.00	10 days
81	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 100/125mm AC line along Rajiv Nagar with 110/140 PVC - 600m	5.70	15 days
82	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing existing 500/400 Premo by laying 500 DI + 160 PVC - 800	68.80	45 days
83	Maintenance of TWSS	Thiruvananthapuram	Renovation	WSS to Nemom-replacing 200mm AC pumping main with 200 mm PVC for 1000m	13.00	15 days
84	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50 mm GI line in Branch line of Mosque lane, Thampanoor with 63 PVC - 600m	2.00	15 days
85	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 150 mm CI line in Branch line of Attakulangara-Killipalam road towards Kuriathy School with 160 PVC - 800m	6.00	15 days
86	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 100 mm AC line along Muttakkadu road, Thampanoor with 110 PVC - 800m	3.50	15 days
87	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50mm GI line along Aavaduthura with 90 PVC - 500m	2.60	15 days
88	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing damaged 75mm PVC line along Neelakanta colony with new 75 PVC - 500m	1.75	15 days

89	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 150mm AC line along Arasumoodu - Vazhappana- Kuzhivila with 160 PVC - 3000m	45.00	45 days
90	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 100mm AC line along Golfinks- Pipinmoodu with 160 PVC - 1000m	15.00	30 days
91	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing substandard 400mm HDPE Theerapadham line along Muttada - Medical College reach (2.00km)	150.00	45 days
92	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing substandard 215 HDPE Theerapadham line from Medical College to Chennilode using 200mm DI line - 2000 m	100.00	45 days
93	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replaing 50mm GI pipe with 110mm PVC at Mukkola-Kachani road - 1000 m	12.25	30 days
94	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50mm GI line along poonthura - Maduvam fishermen colony with 63mm PVC - 200m	0.60	10 days
95	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50mm GI line in Branch from Muttakkadu road, Thampanoor with 75mm PVC - 1000m	3.00	10 days
96	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 50mm GI line along Chala to Kothuval Street with 90/75mm PVC - 2000m	7.00	30 days
97	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 100mm AC line along Chala pipeline road with 110 PVC - 700m	2.60	10 days
98	Maintenance of TWSS	Thiruvananthapuram	Renovation	RWSS to Mulavanakunnu-	1.41	10 days
99	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing existing 100mm AC line by laying 160mm PVC along CSM Nagar & Palottukonam - 2000 m	16.00	30 days
100	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing existing 200/150mm AC line by laying 200mm PVC along World market line, Pettah - Kadakampally - 2000 m	60.00	45 days
101	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 100mm AC with 110mm PVC pipe at Moonnamoodu - Manalayam road -2000m	28.25	30 days

102	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing GI/AC pipe with PVC pipe at Maruthankuzhi zone - 550m	7.00	30 days
103	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 32mm PVC line along Karinkadamukal 1st Branch with 63 PVC - 300m	1.30	10 days
104	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing 32mm PVC line along Karinkadamukal 2nd Branch with 63 PVC - 200m	0.90	10 days
105	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing existing 100mm CI line by laying 110mm PVC along SS Covil road, Thampanoor - 1500 m	12.00	30 days
106	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing existing 40mm GI line by laying 63mm PVC along Sundaravilasom line, SS Covil road -300 m	1	10 days
107	Maintenance of TWSS	Thiruvananthapuram	Renovation	Replacing existing 40mm GI line by laying 63mm PVC along Kavuvila lane, Thampanoor - 200 m	0.5	10 days
				Total	866.31	
Replacing old damaged pump sets						
108	RWSS to Kalliyoor-Supply and erection of pumpset at Kayal PH	Thiruvananthapuram	Renovation	Centrifugal pump set 35 lps 107m at Kayal pump house	7.4	45 days
109	RWSS to Kalliyoor-Supply and erection of pumpset at Pachalloor PH	Thiruvananthapuram	Renovation	Centrifugal pump set 13 lps 70m at Pachalloor Pump house	2.4	45 days
110	RWSS to Kalliyoor-Supply and erection of pumpset at Vandithadom PH	Thiruvananthapuram	Renovation	Centrifugal pump set 9 lps 150m at Vandithadom pump house	3.2	45 days
111	RWSS to Pachalloor-Supply and erection of pumpset at Kuzhy PH	Thiruvananthapuram	Renovation	Centrifugal pump set 10 lps 107m Kuzhi Pump house	2.7	45 days
112	WSS to MR Hills-Supply and erection of pumpset at Killipalam PH	Thiruvananthapuram	Renovation	Centrifugal pump set 10 lps 60m at Killippalam Pump house	1.75	45 days
				Total	17.45	
113	Procurement of specials	Thiruvananthapuram	Renovation	Electrical and mechanical spares and pipe specials for various schemes in Thiruvananthapuram Taluk	18.00	40 days
				GRAND TOTAL	1655.92	

WATER SUPPLY DIVISION, NEYYATTINKARA						
1	RWSS to Uchakkada	Trivandrum/Athiyannoor	Renovation	Replacing damaged 200 AC pumping /distribution lines at various places	20.00	45 days
2	RWSS to Kunnathuklal-	Trivandrum/Perumkadavila	New	Supply,erction of suitable capacity C/F pump set at Manavari pump house	6.00	45 days
3	RWSS to Kunnathuklal-	Trivandrum/Perumkadavila	New	Supply,erction of suitable capacity VT pump set at Pazhamala pump house	12.00	45 days
4	UWSS to Neyyattinkara	Trivandrum/N TAMunicipality	Renovation	Supply and fixing of valves and providing valve chamber for the pumping and distribution lines of Neyyattinkara Water Supply Scheme and allied works	4.00	30 days
5	RWSS to Kodithookkimala -	Trivandrum/N TAMunicipality	New	Supply,erction of suitable capacity VT pump set	8.00	45 days
6	RWSS to Mookkunnimala -	Trivandrum/Nemom	New	Supply,erction of suitable capacity C/F pump set	4.50	45 days
7	RWSS to Adimalathura -	Trivandrum/Athiyannoor	New	Supply,erction of suitable capacity Submersible pump set	6.50	45 days
8	RWSS to Parachakulam -	Trivandrum/Athiyannoor	New	Supply,erction of suitable capacity VT pump set	3.00	45 days
9	UWSS to Neyyattinkara	Trivandrum/N TAMunicipality	Renovation	Cleaning of raw water wel at Neyyattinkara raw water pump house	4.00	30 days
10	RWSS to Marukil Maranalloor	Trivandrum/Nemom	Renovation	Cleaning of well at Maranalloor pump house	5.00	30 days
11	RWSS to Valiyakulam-	Trivandrum/Parassala	Renovation	Replacing the pumping main of 110 mm pvc and 90 mm pvc pipe at Kanjiramoottukadavu	17.00	45 days
12	RWSS to Kumily -	Trivandrum/Athiyannoor	Renovation	Laying 90 mm PVC parallel line from Korukala to Vandikkadamukku	3.00	30 days
13	RWSS to Uchakkada -	Trivandrum/Athiyannoor	Renovation	Interconnecting the existing two lines near Uchakkada tank and making arrangements for seperating the pumping main system	1.00	15 days
14	RWSS to Vilavoorkal -	Trivandrum/Nemom	Renovation	Cleaning the well by removing silt inside the intake well at Mangattukadavu pumphouse	4.00	15 days

15	UWSS to Neyyattinkara	Trivandrum/N TAMunicipality	Renovation	Ooroottukala zone- Replacement of damaged pipe line	7.00	30 days
16	RWSS to Kumily -	Trivandrum/A thiyannoor	Renovation	Cleaning of raw water and clear water wells	2.50	15 days
17	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Cleaning of well	1.50	15 days
18	WSS to Vizhinjam -	Trivandrum/A thiyannoor	New	Providing Micro filter unit of 3 mld	134.25	45 days
19	WSS to Poovar - Karichal -	Trivandrum/A thiyannoor	New	Providing Micro filter unit of 3 mld	159.80	45 days
20	WSS to Dhanuvachapuram -	Trivandrum/P arassala	Renovation	Providing valves at various places	1.00	30 days
21	RWSS to Aryancode -	Trivandrum/P erumkadavila	Renovation	Cleaning the well and repairs to infiltration gallery	5.00	15 days
22	RWSS to Aryancode -	Trivandrum/P erumkadavila	New	Supply, erection of 15 HP submersible pump set -	3.00	30 days
23	WSS Chemboor - Chilambara -	Trivandrum/P erumkadavila	New	Providing 15 HP submersible pump set and well cleaning	6.00	30 days
24	WSS to Valiyakulam -	Trivandrum/P arassala	Renovation	Replacing 110 PVC pipe lying under the road at 3m depth	4.00	15 days
25	RWSS to Poozhikunnu -	Trivandrum/P arassala	New	Supply, erection of 20 HP submersible pump set	4.50	30 days
26	RWSS to Virali - Uchakkada -	Trivandrum/P arassala	New	Supply, erection of 7.5 HP submersible pump set	1.50	30 days
27	RWSS to Iyira	Trivandrum/P arassala	New	Supply, erection of 7.5 HP submersible pump set	1.50	30 days
28	RWSS to Kuzhinjanvila	Trivandrum/P arassala	Renovation	Well cleaning	0.50	30 days
29	RWSS to Kulathummal -	Trivandrum/V ellanadu	Renovation	Providing valves in the pump set	1.00	10 days
30	RWSS to Kattakkada -	Trivandrum/V ellanadu	Renovation	Replacing damaged 75mm PVC pipes - 500m	2.00	15 days
31	RWSS to Kallikkadu -	Trivandrum/P erumkadavila	New	Supply and erection of 20 HP submersible pump set	4.00	30 days
32	RWSS to Aralummodu -	Trivandrum/N emom	New	Supply and erection of 20 HP submersible pump set	4.00	30 days
33	WSS to Mookkunnimala -	Trivandrum/N emom	New	Supply and erection of 20 HP submersible pump set	4.00	30 days
34	TWSS to Nemom portion	Trivandrum/N emom	Renovation	Electrical re-wiring at Nedinjil pump house	3.00	10 days
35	RWSS to Kumily -	Trivandrum/A thiyannoor	New	Supply and erection of 25 HP submersible pump set	5.00	30 days
36	RWSS to Kumily -	Trivandrum/A thiyannoor	Renovation	Replacing damaged valves	1.00	15 days

37	RWSS to Parachakulam -	Trivandrum/A thiyannoor	New	Supply, erection and commissioning of 10 HP submersible pump set	2.00	30 days
38	RWSS to Parachakulam -	Trivandrum/A thiyannoor	Renovation	Cleaning the well and repairs to the infiltration gallery	2.00	15 days
39	RWSS to Kollakonam -	Trivandrum/A thiyannoor	New	Supply, erection and commissioning of 25 HP submersible pump set	5.00	30 days
40	RWSS to Kollakonam -	Trivandrum/A thiyannoor	Renovation	Repairs to the infiltratin gallery	1.00	10 days
41	RWSS to Kottukal -	Trivandrum/A thiyannoor	Renovation	Cleaning well and repairs to the infiltration gallery	3.00	15 days
42	RWSS to Puthalom -	Trivandrum/A thiyannoor	New	Supply and erection of 10 HP submersible pump set at Edathodu	2.00	30 days
43	RWSS to Puthalam -	Trivandrum/A thiyannoor	Renovation	Cleaning the intake well	1.00	10 days
44	RWSS to Uchakkada -	Trivandrum/A thiyannoor	Renovation	Cleaning well	1.00	10 days
45	RWSS to Venganoor -	Trivandrum/A thiyannoor	Renovation	Cleaning the well and infiltration gallery	1.50	15 days
46	RWSS to Attaramoola -	Trivandrum/A thiyannoor	New	Supply and erection of 10 HP submersible pump set	2.00	30 days
47	RWSS to Pulinkudy -	Trivandrum/A thiyannoor	Renovation	Ceaning well and gallery	1.50	15 days
48	RWSS to Poovar - Karichal -	Trivandrum/A thiyannoor	Renovation	Cleaning the well and infiltration gallery	1.50	15 days
49	UWSS to Neyyattinkara -	Trivandrum/N TA municipality	Renovation	Repairs to the idling pump sets- 100 HP - 1 No. raw water, 25 HP , 30 HP , 50HP and 60 HP one each for 4 zones clear water pumps	6.00	10 days
50	RWSS to Marayamuttom -	Trivandrum/P erumkadavila	Renovation	Cleaning the intake well	3.00	10 days
51	RWSS to Aruvippuram -	Trivandrum/P erumkadavila	Renovation	Cleaning well	3.00	10 days
				Total	489.55	
Replacement of old damaged pipes						
52	RWSS to Uchakkada -	Trivandrum/A thiyannoor	Renovation	Replacing damaged 200 AC/HDPE pumping main with 200 mm pvc(12.5 kg) in Puliyoorkonam	25.00	40 days
53	RWSS to Pulimkudi	Trivandrum/A thiyannoor	Renovation	Replacing damaged 50 pvc with 75 pvc pipe line in Valavunada	8.00	15 days
54	RWSS to Chowara -		Renovation	Replacing damaged 80 AC/75 HDPE witg 90 mm pvc pipe line in Kinattadimukku conoly line	14.00	30 days

55	RWSS to Pulimkudi	Trivandrum/A thiyannoor	Renovation	Replacing damaged 150 AC with 160 pvc pipe from Pulimkudi Junction to tank site	8.00	15 days
56	RWSS to Pulinkudi	Trivandrum/A thiyannoor	Renovation	Replacing damaged 100 AC with 110 pvc pipe from Pulimkudi Junctio to Payarumoodu	21.00	30 days
57	RWSS to Pulinkudi	Trivandrum/A thiyannoor	Renovation	Replacing damaged 100 AC with 110 pvc pipe from Karichal to Mulloor temple road	150.00	45 days
58	RWSS to Chowara		Renovation	Replacing damaged 63 mm pvc with 75 pvc pipe from Pulluvila Hospital Junction to Alakettiya colony	2.00	10 days
59	RWSS to Chowara		Renovation	Replacing damaged 100 AC with 110 pvc pipe from Chowara junction to Azhimala, Chowara heritage road, chowara temple road	50.00	30 days
60	RWSS to Uchakkada	Trivandrum/A thiyannoor	Renovation	Replacing damaged 100 mm AC pipe with 110 pvc from Uchakkada junction to Sundar junction	40.00	30 days
61	RWSS to Uchakkada	Trivandrum/A thiyannoor	Renovation	Replacing damaged pipe 80 AC with 90 pvc from Uchakkada Payattuvila to Edappalli	6.00	15 days
62	RWSS to Uchakkada -	Trivandrum/A thiyannoor	Renovation	Replacing damaged 80 AC with 90 pvc pipe at Vattavila Maruthoorkonam	10.00	15 days
63	RWSS to Uchakkada -	Trivandrum/A thiyannoor	Renovation	Replacing damaged 100 mm AC pipe with 110 pvc from Uchakkada junction to Kidarakuzhi	5.00	15 days
64	RWSS to Uchakkada -	Trivandrum/A thiyannoor	Renovation	Replacing damaged 100 mm and 80 mm AC pipe with 110 pvc from Uchakkada to Chavadinada	15.00	30 days
65	RWSS to Kumily	Trivandrum/A thiyannoor	Renovation	Replacing damaged 80 mm AC pipe with 90 pvc from Korukala to Pomguvila	14.00	30 days
66	RWSS to Kumily	Trivandrum/A thiyannoor	Renovation	Replacing damaged 100 mm AC pipe from 110 pvc Nellikkakuzhi to Ettukutty	18.00	30 days
67	RWSS to Kumily	Trivandrum/A thiyannoor	Renovation	Replacing damaged 100 mm AC pipe with 110/160 mm pvc from PKS HSS road to Kuruvikkala	28.00	30 days

68	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 50 mm GI pipe line with 63 pvc at Malinamkulam Chundayappettu	4.50	15 days
69	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 75mm HDPE pipe with 90 pvc from Nellikkakuzhi to old YMCA road	7.00	15 days
70	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 80 mm AC pipe with 90 pvc at Manaveli Mulluvila road	7.00	15 days
71	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 80 mm AC pipe with 110 pvc at Nellikkakuzhi Manaveli Puruthivila	21.00	30 days
72	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 100 mm GI pipe with 110 pvc at Pananinna college road	7.00	15 days
73	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 80 mm AC pipe with 90 pvc from Kaivanvila to Kannumamoodu	12.00	30 days
74	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 75mm HDPE pipe with 90 pvc from Gurukulam college road Anamaramvalicha	12.00	30 days
75	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 32 mm GI pipe with 63 pvc from Perumthanni to Nellikkakuzhi UPS road and Pallam MCRS road	5.00	15 days
76	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 32 mm GI pipe with 63 pvc at PKSHSS road to Muzhakolkunnu	23.00	45 days
77	RWSS to Kumily	Trivandrum/A thiyanloor	Renovation	Replacing damaged 80 mm AC pipe with 90 pvc from Kanjiramkulam to Chani	16.00	30 days
78	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 150 mm AC pumping main with 160 mm PVC pipe from Thirupuram pump house to OHSR	100.00	45 days
79	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 150/80 mm AC pipe with 160/110 mm pvc from Puruthivila to Pazhayakada	7.00	15 days
80	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 150 mm AC pipe with 160 pvc from Mannakkallu to Mavilakadavu	14.00	30 days

81	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 100 mm AC pipe with 110 pvc from Ptyakala to Plamthottam	35.00	45 days
82	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 100 AC pipe with 110 pvc pipe at Kakkadu lane	21.00	45 days
83	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 80 mm AC pipe with 90 pvc from Plamthottam Veterinary Hospital	14.00	30 days
84	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 100mm AC pipe with 110 pvc from Puthenkada Sehiyon line	23.00	45 days
85	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 80 mm AC pipe with 110 pvc from Kalumukom line	29.00	45 days
86	RWSS to Thirupuram -	Trivandrum/P arassala	Renovation	Replacing damaged 80 mm AC pipe with 90pvc in Nellivila line	7.00	15 days
87	RWSS to Athiyanloor -	Trivandrum/A thiyannoor	Renovation	Relaying under sized 80 GI pipe with 110 pvc from Nellimoodu Grandasala to Mulyanthanni	35.00	45 days
Total					813.50	
Replacement of old pump sets						
88	RWSS to Thirupuram-supply and erection of pump set.	Trivandrum/P arassala	Renovation	2nos Vertical Turbine pump set 1700 lpm 80m	18.17	45 days
89	RWSS to Kumily-supply and erection of pump set.	Trivandrum/A thiyannoor	Renovation	2 Nos Centrifugal pump set 2100 lpm 130 m	18.75	45 days
90	RWSS to Karichal-supply and erection of pump set.	Trivandrum/A thiyannoor	Renovation	Centrifugal pump 2200 lpm , 80 m	6.10	45 days
91	RWSS to Karichal-supply and erection of pump set.	Trivandrum/A thiyannoor	Renovation	Submersible pump set 2000 lpm 30 m	5.78	45 days
92	RWSS to Athiyanloor-supply and erection of pump set.	Trivandrum/A thiyannoor	Renovation	Centrifugal pump 1500 lpm , 100m	5.26	45 days
93	RWSS to Pulinkudi-supply and erection of pump set.	Trivandrum/A thiyannoor	Renovation	Centrifugal pump set 1100 lpm 120m	5.26	45 days
94	RWSS to Kottukal-supply and erection of pump set.	Trivandrum/A thiyannoor	Renovation	Vertical Turbine pump set 1350 lpm 90 m	8.19	45 days
95	RWSS to Uchakkada-supply and erection of pump set.	Trivandrum/A thiyannoor	Renovation	(Pumping to Uchakkada Tank) – Centrifugal pump set 2100 lpm 85m	5.26	45 days
96	RWSS to Uchakkada-supply and erection	Trivandrum/A thiyannoor	Renovation	(Pumping to Panayarakkunnu tank) –	6.04	45 days

	of pump set.			a Centrifugal pump set 1650 lpm , 110 m		
97	RWSS to Venganoor-supply and erection of pump set.	Trivandrum/Athiyannoor	Renovation	a Centrifugal pump 1650 lpm 110 m	6.02	45 days
98	RWSS to Balaramapuram-supply and erection of pump set.	Trivandrum/Nemom	Renovation	Vertical Turbine pump set 1500lpm100m	4.94	45 days
99	RWSS to Kunnathukal-supply and erection of pump set.	Trivandrum/Perumkadavila	Renovation	Centrifugal pump 1200 lpm , 95 m	4.15	45 days
100	RWSS to Parassala-supply and erection of pump set.	Trivandrum/Parassala	Renovation	Centrifugal pump set 420lpm 80m	1.75	45 days
101	RWSS to Parassala-supply and erection of pump set.	Trivandrum/Parassala	Renovation	(Vandichira Raw Pater Pump house) – a Submersible pump set 3000 lpm 11 m	2.26	45 days
102	RWSS to Aryancode-supply and erection of pump set.	Trivandrum/Parassala	Renovation	Vertical Turbine pump set 766 lpm 140m	7.25	45 days
103	RWSS to Chempoor - Chilampara-supply and erection of pump set.	Trivandrum/Perumkadavila	Renovation	Vertical Turbine pump set 500 lpm 70 m	2.72	45 days
104	RWSS to Poozhikunnu-supply and erection of pump set.	Trivandrum/Parassala	Renovation	Vertical Turbine pump set 600 lpm 95 m	4.28	45 days
105	RWSS to Valiyakulam-supply and erection of pump set.	Trivandrum/Parassala	Renovation	Slow Speed VT pump set 300 lpm 110 m	2.74	45 days
106	NWSS Central Zone-supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump 3000 lpm 25 m	2.67	45 days
107	NWSS Central Zone-supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump 2500 lpm 25 m	2.51	45 days
108	NWSS Central Zone-supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump 3000 lpm 25 m	2.51	45 days
109	NWSS Amaravila Zone -supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump set 2400 lpm 85 m	7.34	45 days
110	NWSS Amaravila Zone -supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump set 1100 lpm 85 m	3.13	45 days
111	NWSS Olathanni Zone -supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump set 1500 lpm 100 m	4.94	45 days

11 2	NWSS Olathanni Zone -supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump set 1000 lpm 100 m	3.62	45 days
11 3	NWSS Olathanni Zone -supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump set 625 lpm 100 m	2.47	45 days
11 4	NWSS Thozhukkal Zone -supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump 1300 lpm 85 m	4.15	45 days
11 5	NWSS Balaramapuum Zone -supply and erection of pump set.	Trivandrum/N TAMunicipality	Renovation	Centrifugal pump set 2nos 1500 lpm 100 m	9.79	45 days
				TOTAL	158.05	
11 6	Procurement of specials	Neyyattinkara Municipality	Renovation	Electrical and mechanical spares and pipe specials for various schemes in Neyyattinkara Taluk	12.00	40 days
				GRAND TOTAL	1473.10	

WATER SUPPLY DIVISION, ATTINGAL

Pipe line extension works

1	RWSS to Pulimath	Kilimanoor Block	New - line extension	Pipe line extension in Plavode, Pachakkadu line in Pulimath Panchayat	3.75	40 days
2	RWSS to Pulimath	Kilimanoor Block	New - line extension	Pipe line extension in Cherukkaram Pullayil line in Pulimath Panchayat	2.192	40 days
3	RWSS to Pulimath	Kilimanoor Block	New - line extension	Pipe line extension in Erattachira - Randupara colony in Pulimath Panchayat	0.685	40 days
4	RWSS to Pulimath	Kilimanoor Block	New - line extension	Pipe line extension in Panthuvila Thottavaram in Pulimath Panchayat	1.233	40 days
5	RWSS to Koduvazhannoor	Kilimanoor Block	Renovation	Well desilting in RWSS to Koduvazhannoor in Pulimath Panchayat	0.35	40 days
6	RWSS to Pulimath	Kilimanoor Block	New	Construction of 160mm dia bore well and water supply facilities in Payattinakkuzhy SC colony in Pulimath Grama Panchayat	3.00	40 days
7	RWSS to Pothencode	Pothencode Block	Renovation	Well desilting and pond cleaning of RWSS to Pothencode on Pothencode Panchayat	1.735	40 days
8	RWSS to Andoorkonam	Pothencode Block	Renovation	Providing new CI control valve and valve chamber near Koithoorkonam Pump house in Andoorkonam Panchayat	0.35	40 days

9	RWSS to Andoorkonam	Pothencode Block	New	Providing new CI control valve and valve chamber near Andoorkonam Pump house in Andoorkonam Panchayat	0.33	40 days
10	RWSS to Mudakkal	Chirayinkeezh Block	Renovation	Providing new control valves in Mudakkal Panchayat	0.85	40 days
11	RWSS to Mudakkal	Chirayinkeezh Block	Renovation	Replacing of old damaged pipe line in Madathuvathukkal Ayilam line in Mudakkal Panchayat	0.80	40 days
12	RWSS to Mudakkal	Chirayinkeezh Block	Renovation	Replacing of old damaged pipe line in Parayadi Ayilam line in Mudakkal Panchayat	2.00	40 days
13	RWSS to Mudakkal	Chirayinkeezh Block	Renovation	Providing new CI control valve and valve chamber near RWSS to Mudakkal Old in Mudakkal Panchayat	1.25	40 days
14	RWSS to Mangalapuram	Pothencode Block	New - line extension	Pipe line extension to Muttukkonam - Murigamon ward in Mangalapuram Panchayat	1.10	40 days
15	RWSS to Mangalapuram	Pothencode Block	New - line extension	Pipe line extension to Edavilakam in Mangalapuram Panchayat	0.80	40 days
16	RWSS to Nagaroor	Kilimanoor Block	New - line extension	Pipe line extension to Mamathinkavu to Kanjiramvila Temple in Nagaroor Panchayat	1.00	40 days
17	RWSS to Nagaroor	Kilimanoor Block	New	Laying 90mm PVC line along Nagaroor Althara Road	4.65	40 days
18	RWSS to Nagaroor	Kilimanoor Block	New	Laying 90mm PVC line along Nagaroor Nedumparambu Road	9.30	40 days
19	RWSS to Nagaroor	Kilimanoor Block	New	Laying 110mm PVC line along Nagaroor Thekkinkadu - Sivankovil Road	7.60	40 days
20	RWSS to Nagaroor	Kilimanoor Block	New	Construction of 160mm dia bore well and water supply facilities in Payattinkuzhy SC colony in Nagaroor Grama Panchayat	3.00	40 days
21	UWSS to Attingal	Attingal Municipality	New	Laying 90mm PVC line along Kuzhimukku - Kulayarakadavu in ward 28	2.00	40 days
22	UWSS to Attingal	Attingal Municipality	New	Laying 50mm GI & 63mm PVC line along Vetinary Hospital in ward 24	0.75	40 days

23	UWSS to Attingal	Attingal Municipality	New	Laying 90mm PVC line along Thottavaram in ward 28	3.25	40 days
24	UWSS to Attingal	Attingal Municipality	New	Laying 63mm PVC line along Kodumon - Kollampuzha Road in ward 23	1.50	40 days
25	UWSS to Attingal	Attingal Municipality	New	Laying 50mm PVC line along Akkaravila - Kulayarakadavu Road in ward 28	1.00	40 days
26	UWSS to Attingal	Attingal Municipality	New	Laying 63mm PVC line along Mulliyilkadavu - Kattaykkal Road - Thekkekkara Road in ward 7	1.00	40 days
27	UWSS to Attingal	Attingal Municipality	New	Laying 63mm PVC line along Nakramcode - Puthenveedu in ward 9	0.80	40 days
28	UWSS to Attingal	Attingal Municipality	New	Laying 90mm PVC line along Mamathikavu - Kanjiramvila Kshethram vare	7.00	40 days
29	RWSS to Sarkarakadakam	Chirayinkeezh Block	New	Laying 110mm PVC line along Chirayinkil - Manchadimoodu gate - Sarkara Kshethram - Saradavilasom School Road	10.00	40 days
30	RWSS to Chirayinkeezhu	Chirayinkeezh Block	New	Laying 90mm PVC line along Pulunthuruthi - Thekkevila kshethram kadavu (laksham veedu)	2.00	40 days
31	RWSS to Chirayinkeezhu	Chirayinkeezh Block	New	Laying 90mm PVC line along Chirayinkil - Padanilam Road	1.55	40 days
32	RWSS to Chirayinkeezhu	Chirayinkeezh Block	New	Line extension 63mm PVC line to Angavila to Anayilkaavu	4.20	40 days
33	RWSS to Elakamon	Varkala Block	Renovation	Desilting, deepening the well, cleaning gallery, providing side wall to gallery	8.00	40 days
34	RWSS to Edava (Old)	Varkala Block	Renovation	Desilting, deepening the well, rectifying the leakage in OH tank	6.00	40 days
35	RWSS to Aluvila	Varkala Block	Renovation	Desilting, deepening the well	4.50	40 days
36	RWSS to Edava (New)	Varkala Block	Renovation	Desilting, deepening the well	3.00	40 days
37	RWSS to Thottumugham	Varkala Block	Renovation	Desilting, deepening the well, providing new gallery and allied works	20.00	40 days
38	UWSS to Varkala	Varkala Municipality	Renovation	Renovating the idling WSS to Varkala - site cleaning, replacing filter bed, renovation of pump house, desilting well and	90.00	40 days

				protection of source		
39	RWSS to Varkala	Varkala Municipality	Renovation	Pump set to booster pump house Varkala - 25HP centrifugal	4.00	40 days
40	RWSS to Varkala	Varkala Municipality	Renovation	Pump set to booster pump house Varkala - 40HP centrifugal	6.00	40 days
41	RWSS to Varkala	Varkala Municipality	Renovation	Pump set to booster pump house Varkala - 60HP centrifugal	7.80	40 days
42	RWSS to Varkala	Varkala Municipality	Renovation	Pump set to booster pump house Varkala - 50HP centrifugal	6.00	40 days
43	RWSS to Varkala	Varkala Municipality	Renovation	Electrical system re-wamping	8.00	40 days
44	RWSS to Varkala	Varkala Municipality	New	Laying 110mm PVC pipe along Edaparambu road in Varkala Municipality	7.50	40 days
45	RWSS to Varkala	Varkala Municipality	Renovation	Replacement of 80mm AC pipe in Varkala by 75mm PVC	6.00	40 days
46	RWSS to Varkala	Varkala Municipality	Renovation	Replacement of 700mm AC pipe to 700mm DI - suspecting leakage	18.00	40 days
47	RWSS to Varkala	Varkala Municipality	New	Valve fitting in Varkala Municipality	1.00	40 days
48	RWSS to Varkala	Varkala Block	Renovation	Replacement of 50mm GI pipe by 63mm PVC pipe in Ottoor Panchayat, Vadasserikonam	2.50	40 days
49	RWSS to Varkala	Varkala Block	Renovation	Replacement of 50mm GI pipe by 63mm PVC pipe in Chennamcode, Nelliode	4.00	40 days
50	RWSS to Varkala	Varkala Block	Renovation	Replacement of 32mm PVC pipe by 63mm PVC pipe in Cherunniyoor area	2.50	40 days
51	RWSS to Kilimanoor	Kilimanoor Block	New - line extension	Extension of pipe line	5.50	40 days
52	RWSS to Karavaram	Kilimanoor Block	New - line extension	Extension of pipe line	9.00	40 days
53	RWSS to Kunnathukal		New - line extension	Extension of pipe line at Alathur area	6.00	40 days
				Total	306.33	
54	WSS to Navaikulam		Renovation	Supply and erection of 1No. 25HP centrifugal pump set	6.00	40 days
55	WSS to Kakkode	Kilimanoor Block	Renovation	Valiyakunnu SC habitat in Madavoor Pt. commissioning by laying new pipes in place of damaged pipes	3.50	40 days

56	RWSS to Edava	Varkala Block	Renovation	Pipe line extension to Edava Pt.	18.00	40 days
57	RWSS to Elakamon	Varkala Block	Renovation	Pipe line extension to Elakamon Pt.	18.00	40 days
58	RWSS to Azhoor, Kizhuvillam	Chirayinkeezh Block	Renovation	Extension of pipe line in Azhoor Kizhuvillam scheme in coastal wards	95.00	
59	CWSS to Varkala and adjoining villages	Varkala Block	Renovation	Pipe line extension in Ottoor Pt.	30.00	40 days
60	CWSS to Varkala and adjoining villages	Varkala Block	Renovation	Pipe line extension in Vettoor Pt.	35.00	
		Varkala Block	Renovation	Pipe line extension in Cherunniyoorr Pt.	30.00	
				Total	235.50	
61	CWSS to Varkala and adjoining villages	Varkala Block	Renovation	Supply and erection of 1no 100HP VT in intake pump house of WSS to Varkala	19.00	40 days
62	UWSS to Varkala	Varkala Block	Renovation	Supply and erection of 2nos 100HP centrifugal pumps in booster pump house of WSS to Varkala	22.00	40 days
63	RWSS to Pallikkal	Kilimanoor Block	Renovation	Supply and erection of 1no 40HP VT pump set for WSS to Pallikkal	8.00	
64	RWSS to Karavaram Alamcode	Kilimanoor Block	Renovation	Supply and erection of 1no 40HP VT pump set for WSS to Karavaram	8.00	
				Total	57.00	
65	CWSS to Vakkom - Anjengo	Chirayinkeezh Block	Renovation	Thazhampally in Chirayinkeezh Pt. - Providing an R/O plant of 50000 litres capacity for desalination	60.00	40 days
66	RWSS to Karavaram	Kilimanoor Block	Renovation	Extension of pipe line at various wards and providing taps (3km) and interconnection works near GLSR	17.00	40 days
67	RWSS to Kilimanoor	Kilimanoor Block	Renovation	Cleaning the intake pump house and repairing the infiltration gallery	9.00	40 days
68	UWSS to Attingal	Attingal Municipality	Renovation	Repairs to Pump sets	20.00	40 days
69	RWSS to Nagaroor	Kilimanoor Block	Renovation	Cleaning the well and repairing the infiltration gallery	10.00	40 days
70	WSS to Kallara - Pangode		Commissioning	Overhauling of Transformer and pump set in intake and booster pump house	20.00	40 days
71	WSS to Vamanapuram	Vamanapuram Block	Renovation	Cleaning the well and repairing the infiltration gallery	10.00	40 days
72	RWSS to Mangalapuram	Pothencode Block	Renovation	Cleaning the intake well	2.50	40 days

73	WSS to Elakamon	Varkala Block	Renovation	Kayalpuram protecting the source by lining to a length of 400m	15.00	40 days
74	WSS to Azhoor, Kizhuvillam	Chirayinkeezh Block	New	Extension of pipe line to variuos places	40.00	40 days
75	WSS to Navaikulam	Kilimanoor Block	Renovation	Supply, erection and commissioning of 40HP Centrifugal Pump set	5.00	40 days
76		Chirayinkeezh Block	Renovation	Thottumugham - Ambedkar colony - Providing Micro Filter 0.50mld	45.00	40 days
				Total	253.50	
Replacing old damaged pipe lines						
77	CWSS to Vakkom-Anjengo	Chirayinkeezh Block	Renovation	Replacing 150 mm, 100mm, 80mmAC pipe with 200mm PVC pipe	90.00	40 days
78	CWSS to Varkala -	Varkala Municipality	Renovation	Replacing 600mmAC pipe with 600mm MS pipe	945.00	40 days
79	CWSS to Varkala -	Varkala Municipality	Renovation	Replacing 500mmAC pipe with 500mm MS pipe	400.00	40 days
80	AWSS to Attingal Municipality	Attingal Municipality	Renovation	Replacing 80mmAC pipe with 90mm PVC pipe	12.00	40 days
81	CWSS to Vakkom-Anjengo	Chirayinkeezh Block	Renovation	Replacing 200mm HDPE pipe with 200mm MS pipe	7.00	40 days
82	CWSS to Vakkom-Anjengo	Chirayinkeezh Block	Renovation	Replacing 150mm, 100mm and 80mm AC pipe with 200mm MS pipe	25.00	40 days
83	AWSS to Attingal Municipality-	Attingal Municipality	Renovation	Replacing 80mm AC pipe with 75mm PVC pipe	10.00	40 days
84	AWSS to Attingal Municipality	Attingal Municipality	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	3.50	40 days
85	AWSS to Attingal Municipality-	Attingal Municipality	Renovation	Replacing 150mm AC pipe with 160mm PVC pipe	13.00	40 days
86	AWSS to Attingal Municipality-	Attingal Municipality	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	5.00	40 days
87	AWSS to Attingal Municipality-	Attingal Municipality	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	7.50	40 days
88	AWSS to Attingal Municipality-	Attingal Municipality	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	5.00	40 days
89	AWSS to Attingal Municipality-	Attingal Municipality	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	3.00	40 days
90	AWSS to Attingal Municipality-	Attingal Municipality	Renovation	Replacing 90mm and 75mm PVC pipe with 110mm PVC pipe	8.35	40 days

91	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 100mm and 80mm AC pipe and 75mm PVC with 75/90mm PVC, 110mm PVC and 160mm PVC pipe	25.00	40 days
92	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 80mm AC pipe with 90mm PVC pipe	3.00	40 days
93	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 80mm AC pipe with 90mm PVC pipe	2.91	40 days
94	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 150mm AC pipe with 160mm PVC pipe	9.90	40 days
95	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 63mm PVC 4kg pipe with 63mm PVC 6kg pipe	1.41	40 days
96	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 75mm PVC 4kg pipe with 75mm PVC 6kg pipe	1.50	40 days
97	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 75mm HDPE pipe with 110mm HDPE pipe	5.00	40 days
98	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 75mm HDPE pipe with 75mm PVC pipe	1.00	40 days
99	RWSS to Vellalloor-	Kilimanoor Block	Renovation	Replacing 150mm AC pipe with 160mm PVC pipe	1.00	40 days
100	RWSS to Vanchiyoor-	Kilimanoor Block	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	2.24	40 days
101	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Renovation	Replacing 63mm PVC and 80mm AC pipe with 63mm and 90mm PVC pipe	20.00	40 days
102	RWSS to Mulavanakunnu-	Kilimanoor Block	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	1.41	40 days
103	RWSS to Nellanadu-	Vamanapuram Block	Renovation	Replacing 100mm AC pipe with 110mm PVC pipe	5.50	40 days
104	RWSS to Koithoorakonam-	Pothencode Block	Renovation	Replacing 80mm and 100mm AC pipe with 110mm PVC pipe	14.00	40 days
105	RWSS to Mangalapuram-	Pothencode Block	Renovation	Replacing 80mm and 100mm AC pipe with 110mm and 50mm PVC pipe	5.00	40 days
106	RWSS to Mudakkal-Elamba	Kilimanoor Block	Renovation	Replacing 80mm and 100mm AC pipe with 100mm GI, 90mm and 75mm PVC pipe	16.00	40 days
107	RWSS to Mudakkal-New	Kilimanoor Block	Renovation	Replacing 80mm and 100mm AC pipe with 110mm, 90mm and 63mm PVC pipe	10.00	40 days
108	RWSS to Kadinamkulam-	Pothencode Block	Renovation	Replacing 80mm 100mm and 150mm AC pipe	8.00	40 days

				with 160mm, 140mm and 110mm PVC pipe		
109	RWSS to Manjappara-	Kilimanoor Block	Renovation	Replacing 80mm AC pipe with 63mm PVC pipe	6.00	40 days
110	RWSS to Andoorkonam-	Pothencode Block	Renovation	Replacing 80mm and 100mm AC pipe with 140mm PVC pipe	12.00	40 days
111	CWSS to Varkala-	Varkala Municipality	Renovation	Replacing 200mm PVC pipe with 200mm PVC pipe	51.90	40 days
112	CWSS to Varkala-	Varkala Municipality	Renovation	Replacing 80mm and 100mm PVC pipe with 110mm PVC pipe	42.45	40 days
113	CWSS to Varkala-	Varkala Municipality	Renovation	Replacing 80mm and 100mm PVC pipe with 110mm PVC pipe	23.58	40 days
				Total	1803.15	
Replacing old damaged pump sets						
114	CWSS to Vakkom-Anjengo -supply and erection of pump set.	Chirayinkeezh Block	Renovation	2 nos centrifugal pump set 30lps109 m at Kizhuvillam Pump House	12.39	40 days
115	CWSS to Vakkom-Anjengo -supply and erection of pump set.	Chirayinkeezh Block	Renovation	a Vertical Turbine pump set 100 lps 112m	37.77	40 days
116	AWSS to Attingal - supply and erection of pump set.	Attingal Municipality	Renovation	2nos Vertical Turbine pump set 70 lps 37m at Raw Water Pump House	18.06	40 days
117	AWSS to Attingal - supply and erection of pump set.	Attingal Municipality	Renovation	2 nos centrifugal pump set of 70 lps 112 m Avanavanchery Pump House.	12.81	40 days
118	RWSS to Kilimanoor -supply and erection of pump set.	Kilimanoor Block	Renovation	a Vertical Turbine pump set 11 lps 79m at Kilimanoor Pump House	4.31	40 days
119	ARWSS to Nellanad - supply and erection of pump set.	Vamanapura m Block	Renovation	Vertical Turbine pump set 15 lps 134m at Kuttara Pump House	8.19	40 days
120	RWSS to Keezhattingal - supply and erection of pump set.	Varkala Bloack	Renovation	2 nos centrifugal pump set 14 lps 107m at Mananakku Pump House.	5.94	40 days
121	RWSS to Edavanakonam - supply and erection of pump set.	Kilimanoor Block	Renovation	2nos of Vertical Turbine pump set 9 lps 143m at Mathayil Pump House	10.29	40 days
122	RWSS to Sarkarakadakom - supply and erection of pump set.	Chirayinkeezh Block	Renovation	2 Nos Submerssible pump set 8 lps 106 m at Chembummoola pump house	7.25	40 days
123	RWSS to Kadinamkulam - supply and erection of pump set.	Pothencode Block	Renovation	a Vertical Turbine pump set 28 lps 30m at Vettuthura Pump House	4.50	40 days

124	RWSS to Mangalapuram -supply and erection of pump set.	Pothencode Block	Renovation	a Submersible pump set 15 lps 54 m at Mangalapuram pump house	3.17	40 days
125	RWSS to Anathazhchira -supply and erection of pump set.	Pothencode Block	Renovation	a Vertical Turbine pump set 30 lps 57m at Anathazhchira Pump House	7.85	40 days
126	RWSS to Pulimath-supply and erection of pump set.	Kilimanoor Block	Renovation	a Vertical Turbine pump set 26 lps against 76m at Anakudy Pump House	8.52	40 days
127	RWSS to Thonnakkal-supply and erection of pump set.	Pothencode Block	Renovation	a Vertical Turbine pump set 10 lps 76m at Kattiyadu Pump House	3.24	40 days
128	RWSS to Manjapara -supply and erection of pump set.	Kilimanoor Block	Renovation	a Submersible pump set 12.5 lps 64 m Manjappara pump house	3.17	40 days
129	RWSS to Elakamon -supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 10 lps 90 m at Kayalpuram pump house	3.62	40 days
130	RWSS to Edava New-supply and erection of pump set.	Varkala Block	Renovation	a Vertical Turbine pump set 7 lps 66m at Edava New Pump House	2.49	40 days
131	RWSS to Edava old-supply and erection of pump set	Varkala Block	Renovation	a Submersible pump set 7.5 lps 74 m at Edava (Old Pump House) pump house	2.27	40 days
132	RWSS to Sreenivasapuram-supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 6.7 lps 85 m at Sreenivasapuram pump house	2.27	40 days
133	RWSS to Anakuzhy -supply and erection of pump set.	Varkala Block	Renovation	a Vertical Turbine pump set 6.7 lps 73m at Anakuzhy Pump House	2.49	40 days
134	RWSS to Vadasserikonam -supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 7.5 lps 122 m at Vadasserikonam pump house	3.62	40 days
135	RWSS to Vettoor-Vilabhagam -supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 7.5 lps 120 m at Vettoor-Vilabhagampump house	3.62	40 days
136	RWSS to Karathala -supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 7 lps 102 m at Karathala pump house	2.73	40 days
137	RWSS to Vennicode -supply and erection of pump set.	Varkala Block	Renovation	a Vertical Turbine pump set 9.6 lps against 125m at Vennicode Pump House	5.34	40 days
138	RWSS to Madavoor -supply and erection of pump set.	Kilimanoor Block	Renovation	a Submersible pump set 9 lps 102 m at Madavoor pump house	3.62	40 days
139	RWSS to Vettimankonam -supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 4.5 lps 50 m at Vettimankonam pump house	1.01	40 days

140	RWSS to Manamboor -supply and erection of pump set.		Renovation		0.00	40 days
141	RWSS to Valayente kuzhy -supply and erection of pump set.	Varkala Block	Renovation	Submersible pump set 7.5 lps 120 m at Valayentekuzhy pump house	3.62	40 days
142	RWSS to Palachira - supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 7 lps 100 m at Palachira pump house	2.73	40 days
143	RWSS to Kattuvila - supply and erection of pump set.	Varkala Block	Renovation	a Submersible pump set 7.5 lps 120 m at Kattuvila pump house	3.62	40 days
				Total	190.51	
144	Procurement of specials	Chirayinkeezh Block	Renovation	Electrical and mechanical spares and pipe specials for various schemes in Chirayinkeezh Taluk	10.00	40 days
				GRAND TOTAL	2855.99	
HEAD WORKS DIVISION, ARUVIKKARA						
1	RWSS to Kuttichal .	TVPM / VELLANAD	Renovation	RWSS to Kuttichal replacing 80mm dia AC from Kuttichal junction to Kallode 1.50 KM by using 75mm dia PVC.	8.50	45 days
2	ARWSS to Aruvikkara	TVPM / NEDUMANGA D	Renovation	ARWSS to Aruvikkara - Replaing the chokked 150mm CI gravity main to Kannankara Pump house from Aruvikkara Co-op society jn with 160mm PVC 6Kg pipe and & replacement of chokked 50mm GI Distribution line with 63mm PVC at Aruvikkara jn	5.00	40 days
3	RWSS to Tholicode	TVPM / VAMANAPURAM	Renovation	RWSS to Tholicode - Relaying 1200M 75mm 6Kg/cm2 PVC distribution pipes from chettachal to Maruthummoode	4.50	30 days
4	RWSS to Panavoor	TVPM / NEDUMANGA D	Renovation	RWSS to Panavoor - Desilting the existing well at Attinpuram using mud pump.	1.50	30 days
5	RWSS to Anad	TVPM / NEDUMANGA D	Renovation	RWSS to Anad - Desilting the existing well at Arampally using mud pump.	2.00	30 days
6	RWSS to Poovachal.	TVPM / VELLANAD	Renovation	RWSS to Poovachal - replacing 125mm HDPE pipe from Elaicode to Kallamam for a length 650M by using 110mm	4.50	40 days

				dia PVC.		
7	RWSS to Tholicode	TVPM / VAMANAPUR AM	Renovation	RWSS to Tholicode - Relaying 750M 90mm 6Kg/cm PVC distribution pipes from Erappil-Amappetti road, Parappara-Pulichamala road, and Kulamancode Maruthummoode road.	3.50	45 days
8	RWSS to Kanyakulangara	TVPM / VAMANAPUR AM	New	RWSS to Kanyakulangara - Supply, erection testing and commissioning of 10 HP, 150 lpm submersible pump set, having total head 40m	1.50	45 days
9	RWSS to Tholicode	TVPM / VAMANAPUR AM	New	RWSS to Tholicode - Supply, erection testing and commissioning of 60 HP, 1250 lpm VT pump set, having total head 40m	11.00	45 days
10	RWSS to Panavoor	TVPM / NEDUMANGA D	Renovation	RWSS to Panavoor - Construction of infiltration gallery at Attinpuram.	5.00	40 days
11	RWSS to Poovachal	TVPM / VELLANAD	New	RWSS to Poovachal - supply and erection of 75 HP VT pumpset with motor having lpm of 1600 in the Veeranakavu pump house for a head of 145m	11.50	45 days
12	RWSS to Tholicode	TVPM / VAMANAPUR AM	Renovation	RWSS to Tholicode - Relaying 450M 90mm 6Kg/cm PVC distribution pipes from Cherupani line and Thannimoodu- Thottumukku line.	2.00	40 days
13	RWSS to Tholicode	TVPM / VAMANAPUR AM	Renovation	RWSS to Tholicode - Relaying 400M 90mm 6Kg/cm PVC distribution pipes from Anappetti-Planthottam road, Anapetti School- Kannottupara.	2.00	40 days
14	RWSS to Peringamala	TVPM / VAMANAPUR AM	Renovation	RWSS to Peringamala - Maintenance & desilting of well & amce of existing Gallery and repacking filter media at Kundaalamkuzhy.	8.50	30 days
15	RWSS to Vithura	TVPM / NEDUMANGA D	Renovation	RWSS to Vithura - Maintenance of existing Gallery and repacking	10.00	40 days

				filter media		
16	RWSS to KARAKULAM	TVPM / NEDUMANGA D	Renovation	RWSS to KARAKULAM - Desilting the well at Kummi using mud pump	2.50	40 days
17	RWSS to Ponmudi	TVPM / VAMANAPUR AM	Renovation	RWSS to Ponmudi - Source improvement and collection tank protection works	5.00	40 days
18	UWSS to Nedumangad	TVPM / NEDUMANGA D	Renovation	UWSS to Nedumangad - Supply & erection of a pumpset in Seemavila pump house and allied works.	15.00	45 days
19	RWSS to Palode	TVPM / VAMANAPUR AM	Renovation	RWSS to Palode - Relaying the existing pipe line along Chayam-Chettachal road & shifting of stand posts in connection with the road development works	9.00	40 days
20	RWSS to Aruvikkara.	TVPM / NEDUMANGA D	Renovation	RWSS to Aruvikkara - Relaying the damaged and rusted 40mm Dia GI pipe with 75mm 6Kg PVC pipe in between Mundela Society Jn & Erumala Jn.	3.50	40 days
21	RWSS to Karakulam	TVPM / NEDUMANGA D	Renovation	RWSS to Karakulam - Relaying the damaged 75mm PVC pipe near karakulam pt office - Amman Nagar - Elanjimoodu area	5.00	40 days
22	UWSS to Nedumangad.	TVPM / NEDUMANGA D	Renovation	UWSS to Nedumangad - Interconnecting pipe line to Housing board area with the Main line	4.00	40 Days
23	RWSS to Aruvikkara.	TVPM / NEDUMANGA D	Renovation	RWSS to Aruvikkara - Leak rectification works in Kannamkaram Sump cum Pump house	8.00	40 Days
24	RWSS to Vilappil.	TVPM / VELLANAD	Renovation	RWSS to Vilappil - relaying 75mm dia PVC from main road through Priyadarsini road for a length of 300m and shifting house connection.	1.50	40 Days
25	RWSS to Tholicode.	TVPM / VAMANAPUR AM	Renovation	RWSS to Tholicode - Relaying 400M 90mm 6Kg/cm PVC distribution pipes from Anapetti-Planthottam road, Anapetti School-Kannottupara.	2.00	40 Days

26	RWSS to Vellanad.	TVPM / VELLANAD	Renovation	RWSS to Vellanad - replacing old 50mm GI Nalumukku-Asarivilakom for a length of 400m by using 63mm and Companimukku junction to Changa for a length of 980m by using 63mm dia,.	6.00	40 Days
27	RWSS to Kuttichal.	TVPM / VELLANAD	Renovation	RWSS to Kuttichal - relaying 90mm and 75mm due PVC from Kuttichal junction to Paruthipally for 1.5 KM	6.00	40 days
28	RWSS to Vellanad	TVPM / VELLANAD	Renovation	RWSS to Vellanad - replacing old 50mm HDPE through change temple road for a length of 250M by using 50mm dia PVC pipe	1.00	40 Days
29	RWSS to Vilappil	TVPM / VELLANAD	Renovation	RWSS to Vilappil - relaying Cherutheri temple to Asramam and Villiyam Paurasamathi road by using 90mm dia PVC for a length of 500m and shifting house connection.	3.50	40 Days
30	Thiruvananthapuram WSS	TVPM / ALL BLOCKS	New	Thiruvananthapuram WSS - Providing additional drinking water vending points for tanker lorry supply & allied works	4.00	15 days
31	RWSS to Karakulam.	TVPM / NEDUMANGAD	New	RWSS to Karakulam - Inter connection works with Nedumangad Scheme	5.00	30 dyas
32	UWSS to Nedumangad	TVPM / NEDUMANGAD	Renovation	UWSS to Nedumangad - Laying 80mm GI Pumping main to Kabaradi Tank and providing pump set.	18.00	40 days
33	WSS to Vellanad	TVPM / VELLANAD	New	WSS to Vellanad - Providing 5mld Micro filter	180.00	45 days
34	WSS to Nedumangad.	TVPM / NEDUMANGAD	Renovation	WSS to Nedumangad - Cleaning the intake well and collecting well and leading pipe.	12.00	40 days
35	WSS to Palode.	TVPM / VAMANAPURAM	Renovation	WSS to Palode - Cleaning the intake well and repacking the infiltration gallery	13.00	45 days
36	UWSS to Nedumangd municipality	TVPM / NEDUMANGAD	Renovation	UWSS to Nedumangd municipality - replacement of old & undersized pipes and extn of pipe lines to	8.50	40 days

				various places of Nedumangad Municipality.		
37	RWSS to Peringamala.	TVPM / VAMANAPURAM	Renovation	RWSS to Peringamala - Replacing damaged GI & AC pipes with PVC pipes.	18.00	45 days
38	WSS to Aryanad.	TVPM / VELLANAD	Renovation	WSS to Aryanad - Repairs to the infiltration gallery and cleaning the intake well	8.00	40 Days
39	WSS to Uzhamalakka.	TVPM / VELLANAD	Renovation	WSS to Uzhamalakkal - Cleaning the well and repairs to gallery & pump House	10.00	45 Days
40	RWSS to Kuttichal.	TVPM / VELLANAD	Renovation	RWSS to Kuttichal - Cleaning the well and repairs to the infiltration gallery	10.00	45 days
41	RWSS to Aruvikkara.	TVPM / VELLANAD	Renovation	RWSS to Aruvikkara - Replacing the old rusted & undersized pipes with PVC pipes for a length of 2.00 KM	15.00	45 days
42	RWSS to Idinjar.	TVPM / VAMANAPURAM	Renovation	RWSS to idinjar - Replacing the damaged GI pipes to a length of 400m	5.00	30 days
43	WSS to Vamanapuram.	TVPM / VAMANAPURAM	Renovation	WSS to Vamanapuram - Cleaning the well and repairs to the infiltration gallery.	10.00	45 days
44	WSS to Vellanad.	TVPM / VELLANAD	Renovation	WSS to Vellanad - Cleaning the well and repairs to infiltration gallery.	8.00	30 days
45	WSS to Kallara - Pangode .	TVPM / VAMANAPURAM	New	WSS to KallaraPangode - Commissioning of the scheme - overhauling of transformer and pumpsets in intake and booster pump houses.	20.00	45 days
46	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 1.	11.00	30 days
47	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 2.	9.75	30 days
48	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 3.	10.50	30 days

49	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 4.	10.50	30 days
50	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 5.	11.00	30 days
51	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 6.	12.00	30 days
52	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 7.	10.50	30 days
53	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 8.	12.00	30 days
54	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 9.	11.00	30 days
55	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	Renovation	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 10.	10.50	30 days
56	Thiruvananthapuram WSS.	TVPM / THIRUVANAN THAPURAM	New	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara -supply & installation of Soft starters for Pump Sets - 6 nos.	60.00	45 days
				Total	666.25	
Replacement of old damaged pipes						
57	RWSS to Tholicode	TVPM / VAMANAPURAM	Renovation	- Replacing the existing 1800M 200mm AC pumping main pipe to 200mm dia DI K9 from Chettachal Pump house to Matuthummoode Jn.	44.00	45 days
58	UWSS to Nedumangadu	TVPM / VELLANAD	Renovation	Replacing 500mm Premo by 500mm DI K9 pipe	1563.00	45 days
59	RWSS to Anad	TVPM / NEDUMANGAD	Renovation	- Replacing old and damaged 150mm AC pipe near CSI, Anad to Anad junction-1000m	11.00	30 days
60	UWSS to Nedumangadu	TVPM / NEDUMANGAD	Renovation	Replacing 150mm AC by 350mm DI K9 pipe	293	45 days

61	RWSS to Aruvikkara -	TVPM / VELLANAD	Renovation	Replacing CI & DI pipes by 160mm PVC 6 Kg - 450M & 63mm PVC 6Kg PVC 200 - M	5.00	30 days
62	UWSS to Nedumangadu	TVPM / VELLANAD	Renovation	Replacing 150mm AC Class 10 by 160mm PVC 10kg/cm ² pipe 6000m	150	45 days
63	RWSS to Poovachal	TVPM / VELLANAD	Renovation	Replacing 200mm AC and 125mm HDPE by 160mm PVC 6kg -1.50 KM & 110mm 6Kg PVC-650m	10.00	30 days
64	UWSS to Nedumangadu	TVPM / NEDUMANGA D	Renovation	Replacing 100mm AC Class 10 pipe by 110mm PVC 10kg/cm ² pipe 11300m	239	45 days
65	RWSS to Vellanadu	TVPM / VELLANAD	Renovation	Replacing 80mm dia AC pipe from Kulacode to Pallinada for a length of 2.50KM by using 75mm dia PVC.	14.00	30 days
66	RWSS to Kuttichal	TVPM / VELLANAD	Renovation	- replacing 80mm dia AC from Kuttichal junction to Kallode 1.50 KM by using 75mm dia PVC.	8.50	30 days
67	RWSS to Anad	TVPM / NEDUMANGA D	Renovation	- Replacing old and damaged 80mm AC pipe in Sakthipuram line for a length of 1200m	5.75	15 days
68	RWSS to Vellanad	TVPM / VELLANAD	Renovation	Relaying 110mm AC pipe from Vellanad junction to Koottayanimoodu for a length of 1 KM by using 90mm dia PVC.	5.50	15 days
69	UWSS to Nedumangad-	TVPM / NEDUMANGA D	Renovation	Replacing the old and damaged 200mm/300mm AC pipe line below KSTP rubbsrised road between Melethakkada and Thannimoodu by laying 200mm PVC 10 Kg line - 2 KM	25.00	40 days
70	RWSS to Kuttichal -	TVPM / VELLANAD	Renovation	Replacing 150mm dia AC from Kariyode to Kuttichal rubber factory 1.5 KM by using 140mm dia PVC.	10.50	30 days
71	UWSS to Nedumangad -	TVPM / NEDUMANGA D	Renovation	Replacing old and damaged 80mm GI pumping main of Khabaradi line - 1000m	10.00	30 days
72	RWSS to Anad-	TVPM / NEDUMANGA D	Renovation	Replacing old and damaged 160mm PVC pipe under KSTP tar in Puthanpalam-Moozhy line -2000m	15.00	30 days

73	RWSS to Palode -	TVPM / VAMANAPUR AM	Renovation	Replacing the existing 30 years old 200mm dia AC Cl.10 distribution pipe to 160mm dia 10 Kg/cm ² PVC pipe from Nanniyode to Palode - 2 Km	24.00	30 days
74	RWSS to Tholicode -	TVPM / VAMANAPUR AM	Renovation	Relaying 1200M 75mm 6Kg/cm ² PVC distribution pipes from chettachal to Maruthummoode	4.50	15 days
75	RWSS to Pannikuzhy -		Renovation	Replacing old damaged GI distribution pipes and restoration of public taps.	15.00	30 days
76	RWSS to Vellanad	TVPM / VELLANAD	Renovation	Relaying with 63mm dia PVC instead of damaged 50mm dia GI pipe through pump house road for 400m	1.50	10 days
77	RWSS to Tholicode -	TVPM / VAMANAPUR AM	Renovation	Relaying 750M 90mm 6Kg/cm PVC distribution pipes from Erappil-Amappetti road, Parappara-Pulichamala road, and Kulamancode Maruthummoode road.	3.50	10 days
78	RWSS to Vellanad -	TVPM / VELLANAD	Renovation	Replacing old 50mm GI Nalumukku-Asarivilakom for a length of 400m by using 63mm and Companimukku junction to Changa for a length of 980m by using 63mm dia,.	6.00	15 days
79	RWSS to Kuttichal -	TVPM / VELLANAD	Renovation	Relaying 90mm and 75mm dia PVC from Kuttichal junction to Paruthipally for 1.5 KM	6.00	15 days
80	RWSS to Vellanad-	TVPM / VELLANAD	Renovation	Replacing old 50mm HDPE through Changa to temple road for a length of 250M by using 50mm dia PVC pipe	1.00	10 days
81	UWSS to Nedumangad -	TVPM / NEDUMANGA D	Renovation	Replacing the damaged and choked 75mm dia PVC distribution line with 110mm dia PVC 6 Kg pipe line between Seemamula Jn. and Kurisadi Jn. - 2000m	12.00	30 days
82	RWSS to Tholicode -	TVPM / VAMANAPUR AM	Renovation	Relaying 450M 90mm 6Kg/cm PVC distribution pipes from Cherupani line and Thannimoodu-Thottumukku line.	2.00	15 days

83	UWSS to Nedumangad-	TVPM / NEDUMANGA D	Renovation	Replacing old and damaged 110mm PVC under tar in Pulippara - 2 KM	11.00	30 days
84	RWSS to Tholicode -	TVPM / VAMANAPURAM	Renovation	Relaying 400M 90mm 6Kg/cm PVC distribution pipes from Anappetti-Planthottam road, Anapetti School-Kannottupara.	2.00	15 days
85	RWSS to Karakulam -	TVPM / NEDUMANGA D	Renovation	Relaying 75mm dia PVC distribution line between Karakulam Panchayath office and Amman Nagar - 300M	1.00	10 days
86	UWSS to Nedumangad -	TVPM / NEDUMANGA D	Renovation	Replacing and damaged blocked 63mm dia PVC pipe line between Royal hollow block company and transformer near Pariyaram - 200M	1.00	10 days
87	RWSS to Vilappil -	TVPM / VELLANAD	Renovation	Relaying 90mm PVC pipe line in Cherutheri Asramam road and Vittiyaam Paurasamathi road by using 90mm dia PVC 10 Kg for a length of 500m and shifting house connection.	3.50	10 days
88	RWSS to Vilappil -	TVPM / VELLANAD	Renovation	Relaying 75mm dia PVC from Pallimukku through Priyadarsini road for a length of 300m and shifting house connections.	1.50	10 days
89	RWSS to Enchapuri -		Renovation	Replacing old 65mm GI pumping main for a length of 650m & relaying distribution line of 110mm PVC pipe for 650m.	15.00	30 days
				Total	2519.75	
Replacement of old damaged pump sets						
90	UWSS to Nedumangad-	TVPM / NEDUMANGA D	Renovation	Vertical Turbine pump, discharge of 4774 lpm head of 125 m	33.54	45 days
91	UWSS to Nedumangad-	TVPM / NEDUMANGA D	Renovation	Vertical Turbine pump, discharge of 4774 lpm head of 125 m	33.54	45 days
92	RWSS to Aruvikkara-	TVPM / VELLANAD	Renovation	2 Nos Submersible pump set 450 lpm 90 m at Kannamkara pump house.	5.41	45 days
93	RWSS to Anad-	TVPM / NEDUMANGA D	Renovation	2 Nos Submersible pump set 1000 lpm , 90 at Arampally Pump house	10.8	45 days

94	RWSS to Panavoor-	TVPM / VAMANAPUR AM	Renovation	2 Nos Submersible pump set 300 lpm 191 m at Attinpuram Pump house	7.2	45 days
95	RWSS to Puruthipara-		Renovation	2 nos centrifugal pump 400 lpm 75 m	2.81	45 days
96	RWSS to Enchapuri-		Renovation	2nos Vertical Turbine pump set discharge 400 lpm head of 118 m	7.16	45 days
97	RWSS to Aryanadu-	TVPM / VELLANAD	Renovation	2nos Vertical Turbine pump set , discharge of 1200 lpm head of 80m	12.6	45 days
98	RWSS to Kuttichal-	TVPM / VELLANAD	Renovation	Vertical Turbine pump set discharge of 1300 lpm head of 125 m	9.45	45 days
99	RWSS to Uzhamalla- kkal-	TVPM / VELLANAD	Renovation	a Vertical Turbine pump set discharge of 1200 lpm head of 120m	9.03	45 days
100	RWSS to Parambinmel konam-		Renovation	2 nos centrifugal pump set 300 lpm 60m	2.16	45 days
101	RWSS to Navetti konam-		Renovation	a Submersible pump set 300 lpm 90 m	1.81	45 days
102	RWSS to Peringam mala-		Renovation	2nos Vertical Turbine pump set discharge of 700 lpm head of 60m at Kundalamkuzhy pump house	6.14	45 days
103	RWSS to Idinjar	TVPM / VAMANAPUR AM	Renovation	Submersible pump set 300 lpm 70 m	1.5	45 days
104	RWSS to Vithura-	TVPM / NEDUMANGA D	Renovation	a Submersible pump set 1250 lpm 75 m	6.3	45 days
105	RWSS to Pannikuzhy-		Renovation	2nos Submersible pump 150 lpm 85 m	2.01	45 days
106	RWSS to Palode-	TVPM / VAMANAPUR AM	Renovation	2nos Vertical Turbine pump set discharge 1390 lpm head of 45m	8.19	45 days
107	RWSS to Manikkal-		Renovation	2 Nos Vertical Turbine pump set discharge of 1500 lpm , head of 75m	15.34	45 days
108	RWSS to Vamana puram-	TVPM / VAMANAPUR AM	Renovation	Submersible pump set discharge of 1250 lpm 165m at Anakudi pump house	12.6	45 days
109	RWSS to Vamana puram Booster Pump house to Kanjirampara-	TVPM / VAMANAPUR AM	Renovation	1 no centrifugal pump set 960 lpm 45m	2.05	45 days
				Total	189.64	
110	Procurement of specials	NEDUMANGA D BLOCK	Renovation	Electrical and mechanical spares and pipe specials for various schemes in Nedumangad taluk	12.00	40 days
				GRAND TOTAL	3387.64	
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PUBLIC HEALTH DIVISION, KOLLAM						
Urban						
1	Qulin Water Supply Scheme	Kollam Corporation	Renovation	Source Improvement in Sasthamkotta lake	27.00	1
2	Urban water Supply Scheme to Punalur Municipality	Punalur Municipality	Renovation	Source Improvement by supply and packing Filter media	8.50	1
				Total	35.50	
Rural						
1	RWSS to Pathanapuram	Pathanapuram Block	Renovation	Source, Improvement - Cleaning infiltration gallery , repacking filter media etc	2.50	1
2	RWSS to Piravanthoor	Pathanapuram Block	Renovation	Source, Improvement - Cleaning infiltration gallery , repacking filter media etc	2.75	1
3	CWSS to Alappadu, Clappana, Oachira & Karunagappally	Oachira Block	Renovation	Source, Improvement - Removing silt & slush deposited in leading channel & intake well at Kandiyoorkadavu	6.00	1
4	Mini water Supply scheme to Chakkuvally in Poruvazhy Panchayat	Sasthamkotta Block	New	Construction of open well , laying pumping main and distribution and providing syntax tank reservoir	18.00	1
5	Mini water Supply scheme to Kallukulam in Poruvazhy Panchayat	Sasthamkotta Block	New	Construction of open well , laying pumping main and distribution and providing syntax tank reservoir	14.00	1
6	Mini water Supply scheme to Palatharakulam in Poruvazhy Panchayat	Sasthamkotta Block	New	Construction of open well , laying pumping main and distribution and providing syntax tank reservoir	16.00	1
7	Water Supply Scheme to Edakkunnu Poruvazhy Scheme	Sasthamkotta Block	Renovation	Construction of Check dam and side protection work at Pallikkal River	1.00	1
8	RWSS to West Kallada	Sasthamkotta Block	Renovation	Source improvement - Cleaning of intake well at gallery	3.00	1
9	RWSS to Mynagappaly	Sasthamkotta Block	Renovation	Source improvement - Cleaning of intake well at gallery	2.80	1
10	RWSS to Poruvazhy	Sasthamkotta Block	Renovation	Source improvement - Cleaning of intake well at gallery	3.50	1
11	RWSS to Bunglawil west	Sasthamkotta Block	Renovation	Source improvement - Cleaning of intake well at gallery	2.80	1
12	RWSS to Kunnathoor	Sasthamkotta Block	Renovation	Source improvement - Cleaning of intake well at gallery	3.00	1

13	RWSS to Kunnathoor	Sasthamkotta Block	Renovation	Interconnection work and laying distribution line from providing Water Supply Scheme to pump set	15.00	1
				Total	90.35	
				GRAND TOTAL	125.85	
PUBLIC HEALTH DIVISION, IDUKKI						
1	RWSS to Kudayathoor	Idukki/Elamdesom	Renovation	Replacing damaged and rusted 125mm GI pumping main 1200 m	30	1
2	RWSS to Kudayathoor	Idukki/Elamdesom	Renovation	Reconstruction of collapsed outlet chamber and protection wall and rearranging outlet pipe	5	1
3	WSS to Thodupuzha	Idukki/Thodupuzha	Renovation	Maintenance and cleaning the ground level tank and clearing compound at Pattanikkunnu.	1.87	1
4	WSS to Thodupuzha	Idukki/Thodupuzha	Renovation	Construction of intake chamber protection arrangements at RWPB at Thodupuzha	2.5	1
5	RWSS to Kumaramangalam	Idukki/Thodupuzha	Renovation	Laying new 75mm PVC (8kg) pipe line for a length of 1000m and shifting connections to the newly laid line along Plantation-Madrassapady colony road.	4.5	1
6	RWSS to Idukki Kanjikuzhi	Idukki/Idukki	Renovation	Leak rectification of 300mm CI gravity line at Njavalchuvadu-Peppara and providing anchor blocks	0.7	1
7	RWSS to Idukki Kanjikuzhi	Idukki/Idukki	Renovation	Laying 150mm GI pipe of about 100m at Manjappara-Ashok junction, Thadianpadu	2	1
8	RWSS to Pasupara	Idukki/Kattappana	Renovation	Providing temporary bund for diverting water to the source	1	1
9	RWSS to Chakkupallam	Idukki/Kattappana	Renovation	Relaying 250 mm AC pumping main for a length of 100 m at Thekkady	1.55	1
10	RWSS to Vandiperiyar	Idukki/Azhutha	Renovation	Laying 63 mm PVC pipe from Nellimala to 62th mile for a length of 2500 m	6	1
11		Idukki/Azhutha	Renovation	Changing filter media- 3 Nos	30	1

12	RWSS to Kumily	Idukki/ Azhutha	Renovation	Interconnection works at Rosapookandam by laying 50 mm GI pipe- 100 m	2	1
13	RWSS to Kumily	Idukki/ Azhutha	Renovation	Interconnection from Thekkady junction to Vandanmedu junction by relaying 63 mm PVC pipe- 200 m	3	1
14	WSS to Vandanmedu	Idukki/ Kattappana	Renovation	Providing temberary bund for diverting water to the source	1	1
15	RWSS to Elappara	Idukki/ Azhutha	Renovation	(b) Providing temberary bund for diverting water to the source	1	1
16	RWSS to Thottapura,Elapara, Kumali, Mulamkunnu, Ranimudy, Passsupara	Idukki	Renovation	Well cleaning of various RWSS (6 Nos)	5	1
17	RWSS to Muthikkadu	Idukki/ Adimali	Renovation	Replacing 80mm GI pumping main -200m	3	1
18	RWSS to Chillithodu	Idukki/ Adimali	Renovation	Replacing 65mm GI pumping main -400m	3	1
19	RWSS to Peerumedu	Idukki/ Azhutha	Renovation	Relaying 110mm PVC line from Pallikunnu tank to town	2.1	1
20	RWSS to Thurithikalody in Vannapuram Panchayath	Idukki/ Elamdesom	Renovation	Laying 40mm GI Pipe line for a length of 500m along 40 Acre- Cheenkal city road.	2	1
21	RWSS to Peruvanthanam	Idukki/ Azhutha	Renovation	Interconnection with Chuzhappu pump house to Manchuvadu pump house by laying 100 mm GI pipe- 1200 m	7	1
22	RWSS to Mukkulam	Idukki/ Azhutha	Renovation	Source development works and relaying damaged 50 mm GI pipe- 1500 m	6	1
23	RWSS to Mulamkunnu	Idukki/ Azhutha	Renovation	Providing temberary bund for diverting water to the source	1	1
24	RWSS to Mylappara	Idukki/ Azhutha	Renovation	Providing temberary bund for diverting water to the source	1	1
25	RWSS to Puliyanmala	Idukki/ Kattappana	Renovation	Providing temberary bund for diverting water to the source	1	1
26	RWSS Pullikkanam	Idukki/ Azhutha	Renovation	Urgent rennovation of damaged pump house	4	1

				GRAND TOTAL	127.22	
PUBLIC HEALTH DIVISION, WAYANAD						
1	ARWSS to Padinharthara and Thariyodu Villages	Wayanad/ Kalpetta	Renovation	Interconnecting Baby Well to Intake well at Padinharethara	3.00	1
2	RWSS to Mooppainad	Wayanad/ Kalpetta	Renovation	Renovation of Infiltration gallery and cleaning well at Vattachola	12.00	1
3	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Cleaning of well and weir at Kottoor	2.50	1
4	RWSS to Thavinhal	Wayanad/ Mananthavady	Renovation	Cleaning of well and leading channel	1.00	1
5	RWSS to Neervaram	Wayanad/ Panamaram	Renovation	Cleaning of well at Neervaram	0.75	1
6	RWSS to Kokkuzhy	Wayanad/ Kalpetta	Renovation	Cleaning of well and infiltration gallery	5.00	1
7	RWSS to Pinangode	Wayanad/ Kalpetta	Renovation	Cleaning of well and infiltration gallery	5.00	1
8	RWSS to Kottathara	Wayanad/ Kalpetta	Renovation	Cleaning of well and infiltration gallery	3.00	1
9	RWSS to Muttill-Zone-II	Wayanad/ Kalpetta	Renovation	Cleaning of well and infiltration gallery	3.00	1
10	RWSS to Muttill-Zone-III	Wayanad/ Kalpetta	Renovation	Cleaning of well and infiltration gallery	2.50	1
11	RWSS to Muttill-Zone-IV	Wayanad/ Kalpetta	Renovation	Cleaning of infiltration gallery	2.00	1
12	RWSS to Kariyampadi	Wayanad/ Kalpetta	Renovation	Cleaning of well and infiltration gallery	3.00	1
13	WSS to Gandhi Nagar	Wayanad/ Kalpetta	Renovation	Cleaning well	0.30	1
14	RWSS to Vythiri	Wayanad/ Kalpetta	Renovation	Construction of baby well and providing submersible pump set	15.00	1
15	RWSS to valiypara	Wayanad/ Kalpetta	Renovation	Cleaning well	1.00	1
16	RWSS to Meenangadi	Wayanad/ S.Bathery	Renovation	Cleaning well	1.00	1
17	CWSS to S.Bathery and Noolpuzha	Wayanad/ S.Bathery	Renovation	Cleaning well filter media	2.50	1
18	CWSS to S.Bathery and Noolpuzha	Wayanad/ S.Bathery	Renovation	Cleaning of well and weir	2.50	1
19	WSS to Poothadi	Wayanad/ S.Bathery	Renovation	Cleaning of clariflocculator	1.00	1
20	WSS to Poothadi	Wayanad/ S.Bathery	Renovation	Cleaing of GL tank at Athirattukunnu, Iru;am and Vattathani and Cheengode	1.00	1
21	CWSS to Pulpally and Mullankolly	Wayanad/ S.Bathery	Renovation	Cleaning well	2.00	1

22	WSS to Sasimala	Wayanad/ S.Bathery	Renovation	Cleaning well	0.50	1
23	WSS to Seethamount	Wayanad/ S.Bathery	Renovation	Cleaning well	0.50	1
24	WSS to Illiyambam	Wayanad/ S.Bathery	Renovation	Cleaning well	0.50	1
25	WSS to Kalluvayal	Wayanad/ S.Bathery	Renovation	Desilting of well and Pond	1.00	1
26	WSS to Vilambukandom	Wayanad/ Mananthavady	Renovation	Cleaning well	2.00	1
27	ARWSS to Vemo, Nelloornadu and Porunnanore villages	Wayanad/ Mananthavady	Renovation	Cleaing of well and leading channel	2.00	1
28	ARWSS to Vemo, Nelloornadu and Porunnanore villages	Wayanad/ Mananthavady	Renovation	Cleaning slow sand filter and sedimentation tank and filling fresh sand in fiter chamber	15.00	1
29	RWSS to Manathavady	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	6.00	1
30	RWSS toThirunelly	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	3.00	1
31	RWSS to Edavaka	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	3.00	1
32	RWSS to Thavinhal	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	3.00	1
33	RWSS to Neervaram	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	1.00	1
34	RWSS to Panamaram	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	1.00	1
35	RWSS to Pottenkolly	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	1.00	1
36	RWSS to Valliyooorkav	Wayanad/ Mananthavady	Renovation	Cleaning well and infiltration gallery	1.00	1
Construction of temporary check dams to raise water level at source						
1	ARWSS to Ambalavayal	Wayanad/ S.Bathery	New	Construction of temporary bund across Kottoor river	0.60	1
2	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	New	Construction of temporary bund across Noolpuzha river	2.00	1
3	WSS to Poothadi	Wayanad/ S.Bathery	New	Construction of temporary bund across Panamaram river	7.00	1
4	CWSS to Pulpally & Mullankolly	Wayanad/ S.Bathery	New	Construction of temporary bund across Kabani river	4.00	1

5	RWSS to Meenangadi	Wayanad/ S.Bathery	New	Construction of temporary bund across Kuttirayan river	0.75	1
6	ARWSS to Padinjarethara and Thariyode	Wayanad/ Kalpetta	New	Construction of temporary bund across Karaman thode	2.00	1
7	RWSS to Muttill Zone-II	Wayanad/ Kalpetta	New	Construction of temporary bund across Malakkad river	2.00	1
8	RWSS to Thavinhal	Wayanad/ Mananthavady	New	Construction of temporary bund across thavinhal river	1.50	1
Pipe line extension to various places						
1	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Urumbil colony to Loorde nagar with 63mm PVC 10Kg for a length of 500M	2.00	1
2	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Palathanam to Kuttaipalam with 63mm PVC 10Kg for a length of 500M	2.00	1
3	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to MS. Kavala to Kammamparambil kavala with 63mm PVC 10Kg for a length of 1100M	4.00	1
4	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Thurithi kavala to Madal with 75mm PVC 10Kg for a length of 2200M	9.20	1
5	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Irrippudu kavala to Madal with 75mm PVC 10Kg for a length of 2200M	9.20	1
6	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Mailoth Mathew to Mela Padichira with 75mm PVC 10Kg for a length of 930M	3.90	1
7	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Kerof kavala to Karimamkunnu with 63mm PVC 10Kg for a length of 1110M	4.05	1
8	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Pulari waiting shed to Gramasree kavala with 63mm PVC 10Kg for a length of 1460M	5.30	1
9	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Pallithazham to Udaya kavala with 63mm PVC 10Kg for a length of 1600M	5.85	1

10	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Pipe line extension to Kolagapara to Mattapara with 63mm PVC 10Kg for a length of 1000M	3.65	1
11	WSS to Poothadi	Wayanad/ S.Bathery	Renovation	Pipe line extension to Manalvayal to Ellakolly with 63mm PVC 10Kg for a length of 500M	1.82	1
12	WSS to Poothadi	Wayanad/ S.Bathery	Renovation	Pipe line extension to Moonnakuzhi to Valavayal with 63mm PVC 10Kg for a length of 700M	2.55	1
13	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Padichira PH Centre to Padinhara kavala with 63mm PVC 10Kg for a length of 1000M	3.65	1
14	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Madapally kunnu to Kappiset with 63mm PVC 10Kg for a length of 1000M	3.65	1
15	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Kappiset Pallithazham road with 63mm PVC 10Kg for a length of 1100M	4.00	1
16	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Marakkadavu to Grahannur road with 63mm PVC 10Kg for a length of 1600M	5.85	1
17	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Awashrya kavala to Kolavally road with 63mm PVC 10Kg for a length of 1000M	3.65	1
18	CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Renovation	Pipe line extension to Surabi to Pachikara mukku road with 75mm PVC 10Kg for a length of 1500M	6.27	1
19	ARWSS to Thirunelly	Wayanad/ Mananthavady	Renovation	Pipe line extension to Koolimoola Colony with 63mm PVC 6Kg for a length of 200M	2.50	1
20	ARWSS to Thirunelly	Wayanad/ Mananthavady	Renovation	Pipe line extension to Koolimoola UP School with 63mm PVC 10Kg for a length of 1000M	3.75	1
21	ARWSS to Thirunelly	Wayanad/ Mananthavady	Renovation	Pipe line extension to Anappara HS with 63mm PVC 10Kg for a length of 1000M	3.75	1
Replacement of damaged pipe line for restoring interrupted water supply						

1	RWSS to Muttill Zine-I	Wayanad/ Kalpetta	Renovation	Inter connection with ARWSS to Kaniyambetta and Muttill zone I with 110mm PVC class 6kg/cm ² pipe	1.70	1
2	RWSS to Muttill Zine-I	Wayanad/ Kalpetta	Renovation	Laying 40mm PVC pipe class 6kg/cm ² for a length of 300m and 32mm GI 60m at Pariyaram	1.00	1
4	RWSS to Muttill Zine-II	Wayanad/ Kalpetta	Renovation	Laying Pumping main instead of damaged AC pipe with 90mm PVC 10kg/cm ²	7.20	1
5	RWSS to Muttill Zine-III	Wayanad/ Kalpetta	Renovation	Laying distribution pipe of size 90mm PVC 6kg instead of damaged pipe line	2.20	1
6	RWSS to Muttill Zine-IV	Wayanad/ Kalpetta	Renovation	Laying distribution pipe of size 50mm PVC 10kg/cm ² instead of damaged pipe line	1.62	1
7	RWSS to Pinangode	Wayanad/ Kalpetta	Renovation	Laying new Pumping main instead damaged AC pumping main with 160 mm PVC class 10kg/cm ² pipe	14.20	1
8	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Laying distribution pipe of 160mm 6kg/cm ² instead of damaged pipe line at town	1.10	1
9	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Laying 300m 90mm PVC 10kg/cm ² pipe pipe instead of damaged during road widening work	2.40	1
10	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Laying 500m 63mmPVC 6kg/cm ² pipe to Padinjarethara school road	1.70	1
11	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Laying 200m 110 mm PVC pipe class 12.5kg/cm ² damaged during road widening and filling work	1.90	1
12	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Laying 500m 63mmPVC 6kg/cm ² pipe to Panthipoyil Edakkadumukku to Varembeetta road	2.95	1
13	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Laying 500m 90mmPVC 8kg/cm ² pipe and 75m 80mm GI pipe in Mullankandy over new bridge due to filling and constructing of new bridge	4.20	1

14	RWSS to Valiyapara	Wayanad/ Kalpetta	Renovation	Laying 65mm GI pipe instead of damaged pumping main to vayanamkunnu	1.00	1
15	RWSS to Valiyapara	Wayanad/ Kalpetta	Renovation	laying 75mm PVC pipe class 6kg/cm2 along 6th mile to Achoor road for a length on500m	3.20	1
16	RWSS to Valiyapara	Wayanad/ Kalpetta	Renovation	laying 75mm PVC pipe class 6kg/cm2 along mylampathy bridge Jn to Pozhuthana for a length on 500m	3.20	1
17	RWSS to Valiyapara	Wayanad/ Kalpetta	Renovation	laying 90mm PVC pipe class 8kg/cm2 along Pozhuthana to Perinkode Jn instead of damaged AC pipefor a length on 1000m	10.50	1
18	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Relaying dislocated 150mm GI Gravity main and providing anchor blocks	0.50	1
19	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying 50mm PVC pipe class 10kg/cm2 for a length of 500m in Gramathvayal - Ambaleri-Mythani area	1.61	1
20	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying new line with 110mm PVC class 10kg for a length of 400m due to road widening	2.60	1
21	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying 75mm PVC pipe class 6kg/cm2 for a length of 500m along ware house-Munderi road	2.85	1
22	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying 90mm PVC pipe class 6kg/cm2 for a length of 500m along Ambeleri-munderi road	3.40	1
23	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying 63mm PVC pipe class 10kg/cm2 for a length of 200m and 50GI 60m along Emily kundu road	1.05	1
24	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying 63mm PVC pipe class 6kg/cm2 for a length of 1200m along Gas godown to semitrykunnu Reach-I	2.75	1
25	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying 63mm PVC pipe class 6kg/cm2 for a length of 1200m along Gas godown to semitrykunnu Reach-II	1.38	1

26	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Laying 40mm PVC pipe class 6kg/cm ² for a length of 100m along to thuriyambam colony	0.30	1
27	WSS to Kokkuzhi	Wayanad/ Kalpetta	Renovation	Laying 90mm PVC class 12.5kg/cm ² instead of damaged AC pipe for a length of 600m	3.00	1
28	WSS to Kottathara	Wayanad/ Kalpetta	Renovation	Laying 50mm PVC pipe class 6kg/cm ² for a length of 600m to Kurinjalakomkundu colony	1.83	1
29	WSS to Kottathara	Wayanad/ Kalpetta	Renovation	Laying 50mm PVC pipe class 6kg/cm ² for a length of 300m to myladi	0.95	1
30	WSS to Kaniyambetta	Wayanad/ Kalpetta	Renovation	Laying 63mm PVC pipe class 6kg/cm ² for a length of 600m to Petrol bank to Kizhakkayilkundu	2.05	1
31	WSS to Mooppainad	Wayanad/ Kalpetta	Renovation	Laying 90mm PVC pipe class 8kg/cm ² for a length of 500m in Manalvayal instead of damaged pipe line	2.26	1
32	WSS to Mooppainad	Wayanad/ Kalpetta	Renovation	Laying 50mm PVC pipe class 6kg/cm ² for a length of 500m in Manalvayal chettiyan colony	1.53	1
33	WSS to Mooppainad	Wayanad/ Kalpetta	Renovation	Laying 63mm PVC pipe class 6kg/cm ² for a length of 1000m in Manalvayal Kallukeni road	3.39	1
34	CWSS to S.Bathery & Noolpuzha	Wayanad/ S.Bathery	Renovation	CWSS to S.Bathery and Noolpuzha- Laying damaged Distribution line to Pazhupathoor in S.Bathery panchayath.	18.00	1
35	CWSS to S.Bathery and Noolpuzha	Wayanad/ S.Bathery	Renovation	CWSS to S.Bathery and Noolpuzha- Laying Distribution line to Poothikkadu in S.Bathery panchayath.	9.20	1
36	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Laying 63mm PVC pipe class 10kg/cm ² for a length of 500m in Andoor Cheenapulle road	1.82	1
37	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Laying 63mm PVC pipe class 10kg/cm ² for a length of 500m in Andoor Cheenapulle road at Chathikolly	2.91	1

38	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Laying 63mm PVC pipe class 10kg/cm2 for a length of 500m in Thattiyad road	1.82	1
39	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Laying 63mm PVC pipe class 10kg/cm2 for a length of 1000m in Thomattuchal - Kalleri road	3.65	1
40	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Laying 63mm PVC pipe class 10kg/cm2 for a length of 600m in Andoor Thamazh colony	2.18	1
41	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Laying 63mm PVC pipe class 10kg/cm2 for a length of 1000m in Rest house to Chakrutty vayal	3.65	1
42	RWSS to Edavaka	Wayanad/ Mananthavady	Renovation	Laying 150mm Gi pipe for a length of 150m at Edavaka pump house	3.50	1
43	RWSS to Thavinhall	Wayanad/ Mananthavady	Renovation	Laying 150mm Gi pipe for a length of 300m near Thavinhall	7.00	1
44	ARWSS to Anjukunnu & Kuppathodu villages-	Wayanad/ Mananthavady	Renovation	Laying 250mm MS Pumping main near Vilambukandam pump house	0.85	1
45	ARWSS to Anjukunnu & Kuppathodu villages-	Wayanad/ Mananthavady	Renovation	ARWSS to Anjukunnu & Kuppathodu villages- Dismantling and Relaying Exposed 160mm and 63mm PVC pumping main at Vilambukandam, Varummelkadavu road for a total length of 250 m.	2.00	1
46	ARWSS to Padinjharethara and Thariyode villages-	Wayanad/ Mananthavady	Renovation	ARWSS to Padinjharethara and Thariyode villages- Replacing damaged pumping main at Thengumunda	2.00	1
47	ARWSS to Padinjharethara and Thariyode villages-	Wayanad/ Mananthavady	Renovation	ARWSS to Padinjharethara and Thariyode villages- Replacing damaged pumping main at Manhura	5.00	1
48	ARWSS to Vemom Nalloornadu and Porunnannoor villages	Wayanad/ Mananthavady	Renovation	ARWSS to Vemom Nalloornadu and Porunnannoor villages- Replacing of Damaged 160 mm PVC distribution line at Payyampally- Kurukkanmoola road for a length of 1000 m.	12.00	1

Immediate repair of damaged pump sets

1	WSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Repair to 25 HP submersible Pump set	0.5	1
2	WSS to Kaniyambetta	Wayanad/ Kalpetta	Renovation	Repair to 40 HP submersible Pump set (Two works)	0.30	1
3	WSS to Kokkuzhi	Wayanad/ Kalpetta	Renovation	Repair to 25 HP submersible Pump set (Two works)	0.30	1
4	WSS to Kokkuzhi	Wayanad/ Kalpetta	Renovation	Repair to 20 HP submersible Pump set	0.15	1
5	WSS to Vythiri	Wayanad/ Kalpetta	Renovation	Repair to 20HP Submersible motor and pump set(5five works)	0.80	1
6	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Repair to 60 HP VT Pump set at Padinjarethara	2.20	1
7	RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Renovation	Repair to 60 HP VT Pump set at Padinjarethara	2.00	1
8	RWSS to Valiyapara	Wayanad/ Kalpetta	Renovation	Repair and Overhauling of Motor Pump set at Valiyapara	1.00	1
9	WSS to Kottathara	Wayanad/ Kalpetta	Renovation	Repair and over hauling of 35HP VT Pump set at Kottathara Pump house	1.20	1
10	RWSS to Mananthavady	Wayanad/ Mananthavady	Renovation	Repair and over hauling of 35HP VT Pump set atMananthavadi Pump house	1.90	1
11	RWSS to Mananthavady	Wayanad/ Mananthavady	Renovation	Repair and over hauling of 50HP Submersible Pump set at Mananthavadi Pump house	1.00	1
12	RWSS to Mananthavady	Wayanad/ Mananthavady	Renovation	Repair and over hauling of 60HP Submersible Pump set at Mananthavadi Pump house	2.00	1
13	RWSS top Thavinhal	Wayanad/ Mananthavady	Renovation	Repair and over hauling of 75HP Submersible Pump set at Mananthavadi Pump house	2.50	1
14	RWSS to Thirunelly	Wayanad/ Mananthavady	Renovation	Repair and over hauling of 75HP V.T. Pump set at Palvelichami Pump house	2.50	1

15	ARWSS to Vemom Nallooradu and Porunnanoore Villages	Wayanad/ Mananthavady	Renovation	Repair and over hauling of 75HP Submersible Pump set at Koodalakadavu Pump house	2.50	1
16	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Overhauling of 75 HP VT pump set at Kottoor	2.50	1
17	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Repair and Overhauling of 10 HP Centrifugal pump set at Thomattuchal	0.40	1
18	RWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 20 HP submersible pump set at Kuttikaitha	1.00	1
19	RWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 30 HP submersible pump set at Kuttikaitha	1.80	1
20	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 100 HP VT pump set at Muthanga	5.00	1
21	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 80 HP VT pump set at Muthanga	3.00	1
22	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 50 HP centrifugal pump set No.1 at TP Nirappath	1.80	1
23	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 50 HP centrifugal pump set No.2at TP Nirappath	2.00	1
24	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 5 HP centrifugal pump set (1no)&2.5 HP (4NOS.) at TP Nirappath	1.00	1
25	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of35 HP centrifugal pump set no.1 in Booster pump house at Vadachira	2.25	1
26	CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of35 HP centrifugal pump set no.2 in Booster pump house at Vadachira	2.25	1
27	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP VT pump set no.1 at Mathurvayal	2.00	1
28	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP VT pump set no.2 at Mathurvayal	2.00	1
29	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP VT pump set no.3 at Mathurvayal	2.00	1
30	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP Centrifugal pump set no 1.at booster pump house	1.00	1

				Cheengode		
31	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP Centrifugal pump set no 2.at booster pump house Cheengode	1.00	1
32	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP Centrifugal pump set no 3.at booster pump house Cheengode	1.00	1
33	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 40HP Centrifugal pump set no 1 .at TP Athirattukunnu	0.80	1
34	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 40HP Centrifugal pump set no 2 .at TP Athirattukunnu	0.80	1
35	WSS to Poothady	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 40HP Centrifugal pump set no 3 .at TP Athirattukunnu	0.80	1
36	CWSS to Pulpally&Mullankoll y	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP VT pump set no.1 at Marakadave	3.50	1
37	CWSS to Pulpally&Mullankoll y	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 60HP VT pump set no.2 at Marakadave	2.25	1
38	CWSS to Pulpally&Mullankoll y	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 75HP Centrifugal pump set no.1 at TP Kabanigiri	1.80	1
39	CWSS to Pulpally&Mullankoll y	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 75HP Centrifugal pump set no.2 at TP Kabanigiri	1.80	1
40	RWSS to Saisimala	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 20HP Submersible pump set no.1 & II at Sasimala	1.50	1
41	RWSS to Seethamount	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 20HP Submersible pump set no.1 at Seethamount	0.80	1
42	RWSS to Seethamount	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 10HP Submersible pump set no.11 at Seethamount	0.40	1
43	RWSS to Meenangadi	Wayanad/ S.Bathery	Renovation	Repair andOverhauling of 15HP Submersible pump set no.11 at Meenangadi	0.80	1
44	RWSS to Meenangadi	Wayanad/ S.Bathery	Renovation	Overhauling of 25HP Submersible pump set no.1 at Meenangadi	1.50	1
45	RWSS to Kottathara	Wayanad/ Kalpetta	Renovation	Repair to 35 HP VT Pump set	1.75	1

46	RWSS to Kalpetta	Wayanad/ Kalpetta	Renovation	Repair to 25 HP submersible motor and pum set	1.50	1
47	RWSS to Pinangode	Wayanad/ Kalpetta	Renovation	Repair to 25 HP submersible motor and pum set	1.50	1
48	RWSS to Kottathara	Wayanad/ Kalpetta	Renovation	Overhauling of 20 HP 2 nos. submersible pump set at Kottathara	1.00	1
49	RWSS to Kokkuzhi	Wayanad/ Kalpetta	Renovation	Overhauling of 20 and 25 HP submersible pump set at Kokkuzhi	1.25	1
50	RWSS to Muttill Zone II	Wayanad/ Kalpetta	Renovation	Overhauling of 25 HP 2 nos. submersible pump set at Kottathara	1.50	1
51	RWSS to Muttill Zone III	Wayanad/ Kalpetta	Renovation	Overhauling of 20 HP 2 nos. and 25 HP submersible pump set at Kottathara	2.00	1
52	RWSS to Kariyampady	Wayanad/ Kalpetta	Renovation	Overhauling 20HP stage pump -3nos.	1.50	1
53	RWSS to Valiyapara	Wayanad/ Kalpetta	Renovation	Overhauling of 15 and 20HP submersible pump set	0.75	1
54	RWSS to Valiyapara	Wayanad/ Kalpetta	Renovation	Overhauling of 20 HP stage pump set	0.40	1
55	RWSS to Vythiri	Wayanad/ Kalpetta	Renovation	Overhauling 20HP submersible pump set 2 nos.	1.00	1
56	RWSS to Chundale	Wayanad/ Kalpetta	Renovation	Overhauling 20HP submersible pump set and 15HP Stage pump	0.80	1
57	RWSS to Moopainad	Wayanad/ Kalpetta	Renovation	Overhauling 35HP VT Pump set -2nos	1.50	1
Procurement of pipes and specials for urgent repair of pipe lines						
1	For all schemes under this Division	Wayanad	Renovation	Supply of various size of pipes, valves and specials.	30.00	1
Increasing pumping hours in small schemes						
1	CWSS to Pulpally&Mullankoll y	Wayanad/ S.Bathery	Renovation	Supply of operators for Additional shift for one month	0.2	1
2	ARWSS to Ambalavayal	Wayanad/ S.Bathery	Renovation	Supply of operators for Additional shift for one month	0.2	1
3	WSS to Poothadi	Wayanad/ S.Bathery	Renovation	Supply of operators for Additional shift for one month	0.3	1
4	CWSS to S.Bathery Noolpuzha at Kalluvayal	Wayanad/ S.Bathery	Renovation	Supply of operators for Additional shift for one month	0.2	1
5	RWSS to Muttill- Zone-III	Wayanad/ Kalpetta	Renovation	Supply of operators for half shift for one month	0.10	1
GRAND TOTAL					504.14	
TOTAL ESTIMATED COST OF WORKS INITIATED BY KWA					<u>10129.86</u>	

KERALA WATER AUTHORITY
SHORT TERM MITIGATION MEASURES
DETAILS REQUIRED FROM STATE GOVERNMENT
ABSTRACT

Sl. No.	Name of District	No of Proposals	Amount (Rs. In Lakhs)
1	Thiruvananthapuram		
	<i>Public Health Division, Thiruvananthapuram</i>	113	1655.92
	<i>Water Supply Division, Neyyattinkara</i>	116	1473.1
	<i>Water Supply Division, Attingal</i>	144	2855.985
	<i>Head Works Division, Aruvikkara</i>	110	3387.64
	Sub Total	483	9372.65
2	Kollam	15	125.85
3	Idukki	26	127.22
4	Wayanad	165	504.14
	Total	689	10129.86


Managing Director

ANNEXURE 6: LOSSES TO AGRICULTURAL CROPS IN THIRUVANANTHAPURAM, KOLLAM, IDUKKI AND WAYANAD DISTRICTS AS PER NORMS

ANNEXURE 3 (B)

DISTRICT WISE AGRICULTURAL CROP DAMAGE CAUSED BY DROUGHT IN KERALA DURING KHARIF - 2012

Sl. No.	Name of the District	Kharif-2012		Total area affected by drought during Kharif, 2012 (Ha)	Total area affected by drought with >50% crop damage from the affected area (Ha)			Area affected by SF&MF with >50% crop damage (out of the >50% crop damage area) (Ha)			Area affected by other than SF&MF with >50% crop damage (out of the >50% crop damage area) subject to ceiling of 1 Ha/farmer(Ha)			Area affected by other than SF&MF with >50% crop damage (out of the >50% crop damage area) subject to ceiling of 1 Ha/farmer(Ha)			Area affected by SF&MF under sericulture (Ha)		
		Target (Ha)	Coverage upto (Ha)		Irrigated	Rainfed	Perennials	Irrigated	Rainfed	Perennials	Irrigated	Rainfed	Perennials	Irrigated	Rainfed	Perennials	Eri.	Mulberry, Tussar, Muga	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1	TVM	1510	904	904		904													
2	KLM	1217	561	511	5.11			5.11		904									
3	IDKI	916	420	10	10		10												
4	WYND	10955	9820	2054		2054			2054										


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ANNEXURE 3 (C)

AGRICULTURAL CROPWISE DAMAGE BY DROUGHT IN KERALA DURING KHARIF - 2012 (Area in Ha)

Sl. No.	Name of the Crop	Kharif-2012		Total area affected by drought during kharif, 2012 (ha)			Total area affected by drought with >50% crop damage from the total affected area (Ha)			Area affected by SF&MF with >50% crop damage (out of the >50% crop damage area) (Ha)			Area affected by other than SF&MF with >50% crop damage (out of the >50% crop damage area) subject to ceiling of 1 Ha/farmer(Ha)			Area affected by other than SF&MF with >50% crop damage (out of the >50% crop damage area) in case of successive calamity irrespective of the size of his holdings being large limited to 2 ha/ farmer (Ha)O			Area affected by SF&MF under sericulture (Ha)	
		Target (Ha)	Coverage upto (Ha)	Irrigated	Rainfed	Perinnials	Irrigated	Rainfed	Perinnials	Irrigated	Rainfed	Perinnials	Irrigated	Rainfed	Perinnials	Irrigated	Rainfed	Perinnials	Er.	Muga
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
TVM	Paddy	1510	904	904		904														
KLM	Paddy	1217	561	511	511			511												
IDKI	Paddy	916	420	10	10			10												
WND	Paddy	10955	9820	2054		2054			2054											


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ANNEXURE 3 (E)

DISTRICT WISE HORTICULTURE CROP DAMAGE BY DROUGHT IN KERALA DURING KHARIF - 2012														(Area in Ha)		
Sl. No.	Name of the District	Kharif - 2012		Total area affected by drought during kharif, 2012 (Ha)	Total area affected by drought with >50% crop damage from the total affected area (Ha)			Area affected by SF&MF with >50% crop damage (out of the >50% crop damage area) (Ha)			Area affected by other than SF/MF with >50% crop damage (out of the >50% crop damage area) subject to ceiling if 1 Ha/farmer(Ha)			Area affected by other than SF/MF with >50% crop damage (out of the >50% crop damage area) in case of successive calamity irrespective of the size of his holdings being large limited to 2 ha/ farmer (Ha)O		
		Target (Ha)	Coverage upto (Ha)		Irrigated	Rainfed	Perinials	Irrigated	Rainfed	Perinials	Irrigated	Rainfed	Perinials	Irrigated	Rainfed	Perinials
1	TVM	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	KLM	78951	28604	23300		1500	21800		1500	21800						
3	IDK	212340	1825	1154	100	423.6	630.4	100	423.6	630.4						
4	WYND	65876	46946	46496	1000	1946	44000	1000	1946	44000						


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ANNEXURE 3 (F)

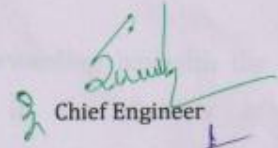
CROPWISE DAMAGE ON HORTICULTURE CROPS CAUSED BY DROUGHT IN KERALA DURING KHARIF - 2012 (Area in Ha)

Sl. No.	Name of the Crop	Kharif-2012		Total area affected by drought during kharif, 2012 (ha)	Total area affected by drought with >50% crop damage from the total affected area (Ha)			Area affected by SF&MF with >50% crop damage (out of the >50% crop damage area) (Ha)			with >50% crop damage (out of the >50% crop damage area) subject to ceiling of 1 Ha/farmer(Ha)		
		Target (Ha)	Coverage upto (Ha)		Irrigated	Rainfed	Perinials	Irrigated	Rainfed	Perinials	Irrigated	Rainfed	Perinials
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Trivandrum	Cocnut	71376	23420	23420			19320			19320			
	Pepper	4902	3380	3380			2480			2480			
	Vegetable	2673	1804	1804		1500			1500				
Total		78951	28604										
IDUKKI	Vegetable	6073	505	505	45	310		45	310				
	Banana	2541	88.7	88.7	33.45	55.25		33.45	55.25				
	Sugarcane	2201	600.95	600.95	21.5	58.45		21.5	58.45				
	cocoa	7537	112	112			112						112
	pepper	85739	144	144			144						144
	coffee	12780	47	47			47						47
	cardamum	33083	263	263			263						263
	Arecanut	2753	24	24			24						24
	coconut	17189	8	8			8						8
	Rubber	39679	2	2			2						2
	Nutmug	2054	27	27			27						27
	Clove	711	3.4	3.4			3.4						3.4
Total		212340	1825.05										
Wayanad	Ginger	2446	1200	1200		1200							
	Banana	8318	1746	1746	1000	746		1000	746				
	Peppr	34000	32000	32000			32000						32000
	Arecanut	10862	10862	10862			10862						10862
	coconut	10250	1138	1138			1138						1138
Total		65676	46946										


P.C. RAVINDRANATHAN
 Addl. Director of Agriculture (CP)
 Directorate of Agriculture
 Thiruvananthapuram

ANNEXURE 7: DETAILS OF DROUGHT RISK REDUCTION WORKS PROPOSED BY DEPT. OF IRRIGATION

ABSTRACT OF WORKS ARRANGED FOR MITIGATION OF DROUGHT			
Name of Division			
Sl No	Name of District	Type of Works	Committed Expenditure ₹ IN LAKHS
1	Thiruvananthapuram	Improvements to Irrigation facilities	192.42
		Reformation and Renovation of canals (Neyyar Irrigation Project)	16.66
2	Kollam	Improvements to Irrigation facilities	79.40
		Reformation and Renovation of canals (Kallada Irrigation Project)	485.95
3	Idukki	Improvements to Irrigation facilities	99.56
4	Wayanad	Improvements to Irrigation facilities	49.00
	TOTAL		922.99


 Chief Engineer

Sl No	Name of Scheme	Location (Dist/Block)	Whether new or Renovation	Brief description of works proposed	Estimate d cost (in lakhs) as per latest SOR	Time required for constructio n (months)
MINOR IRRIGATION DIVISION THIRUVANANTHAPURAM						
1	P.M-Improvements and side protection works to Athiyannor Nadu thodu near Parayilkadavu in Athiyannoor Pt.	Thiruvananthapuram	Renovation	Project Maintenance Improving Irrigation facilities	3.32	1 month
2	Construction of a culvert across Pallichal thodu near Arattukadavu in Kalliyoor Pt.	Thiruvananthapuram	New	::	3.30	1 month
3	P.M-Improvements at side protection work to Chiravarambu Eravikonam Ela Nadu Thodu d/s of Puthenkulam in Athiyannoor Pt.	Thiruvananthapuram	Renovation	::	10.00	1 month

4	P.M-Improvements to Palamkonam Kaithakonam thodu construction of bund protection work and foot bridge near Sreekrishnapuram in Poovachal Panchayath.	Thiruvananthapuram	::	::	8.00	1 month
5	P.M-Improvements to Chempakapara thodu and construction of culvert in Mulluvila ward of NTA Municipality.	Thiruvananthapuram	::	::	8.90	1 month
6	P.M. - Construction of side wall and covering slab of existing thodu at Vayalikkada in Tvpm. Corpn.	Thiruvananthapuram	New	::	10.00	20 days
7	PM Improvements to the leadingka;l from Konniyoor thodu to Chirayilvilayil thodu near Symon Bridge in Poovachal Pt.	Thiruvananthapuram	Renovation	::	7.00	1 month
8	P.M-Improvements at side protection work to Puthuchalkozhodu thodu downstream of Murikulam in Balaramapuram Pt.	Thiruvananthapuram	::	::	8.00	1 month
9	PM Improvements to Karunellyode-Malavaram Nedungara thodu in Aruvukkara Grama Pt	Thiruvananthapuram	::	::	12.00	1 month
10	PM Improvements to Mavilla-Muthalar thodu in Aruvikkara Grama Pt.	Thiruvananthapuram	::	::	8.00	1 month
11	P.M- Construction of culvert near Moozhiyil in Madavoor Pt.	Thiruvananthapuram	New	::	15.00	25 days
12	PM Improvements to Bhagavatipuram Kadayar-akkaravila ela thodu in Aruvukkara Grama Pt	Thiruvananthapuram	Renovation	::	12.00	1 month
13	P.M-Construction of leading canal in Vellaikari ela between Vallayakonam to Choozhattukotta road culvert in ward No.13 of Vilavoorkal Panchayath.	Thiruvananthapuram	New	::	12.20	1 month
14	PM-Desiting and covering Keni thodu in Nanadancode ward in TVPM. Corpn.	Thiruvananthapuram	Renovation	::	3.00	1 month

15	PM Improvements to Palaikonam Kaniyankuzhi thodu and construction of cartable bridge, foot brige and protection wall in Arayanadu Pt.	Thiruvananthapuram	::	::	10.50	1 month
16	Renovation Of Neerazhichira and construction of leading channel in Vellanadu GramaPt.	Thiruvananthapuram	::	::	14.20	1 month
17	P.M-Improvements and side protection work to Edapazhanji thodu from Edapazhanji Puthukonam in Poovachal Panchayath.	Thiruvananthapuram	::	::	8.00	1 month
18	P.M. Improvements to Moozhy-Mylam elathodu in Aruvikkara Pt.Name of contractor: S.Ramachandran Nair	Thiruvananthapuram	::	::	19.00	1 month
19	P.M. -Improvements to Meenampallil Bhagavathipuram Elathodu in Aruvikkara GramaPt.	Thiruvananthapuram	::	::	20.00	1 month
20	Reformation of canal bund and allied works of Vizhinjam branch channel from Ch:19700m to 20100m	Thiruvananthapuram	Renovation	Neyyar Irrigation Project	5.99	1 month
21	Construction of a culvert foot slab and other allied works between Ch:2500m and 2900m of Chowara branch channel	Thiruvananthapuram	New	::	5.00	18 days
22	Bund Reformation and protection works to the canal between ch:1600m and 1875m of Chaikottukonam sub channel and renovation of field channel from Chaikottukonam to Venkulam	Thiruvananthapuram	Renovation	::	5.67	1 month

MINOR IRRIGATION DIVISION KOLLAM

1	PM. Urgent repairs to MI.Structure in Mangavaram ela in Vilakkudy Panchayath.	Kollam	Renovation	Project Maintenance Improving Irrigation facilities	16.72	1 month
2	PM, Improvements of Thalakkulam and construction culvert leading channel and protection works in Pavithreswaram ela in	Kollam	::	::	11.37	1 month

	Pavithreswaram Panchayath					
3	PM.Providing Irrigation facilities to Mevanakonam ela in Kalluvathukkal Panchayath	Kollam	New	::	8.58	1 month
4	PM.Improvements of leading channel and protection works to Ayathikonam ela in Vettikkavala Panchayath	Kollam	Renovation	::	9.00	1 month
5	PM.Side Protection works and constructing tractor passage to Thattarukonam ela thodu Kaippally Junction in Vettikavala Pt.	Kollam	::	::	9.04	1 month
6	PM.Construction of cross bar and side protection to the side bund of thodu from Kannankara culvert to Kallingal Junction in Elampalloor Panchayath	Kollam	::	::	16.28	1 month
7	PM.Side Protection works and constructing tractor passage to the Poovanayil Thudayancode ela in Veliyam Panchayath	Kollam	::	::	8.42	1 month
8	KIP (O&M) Thrippara minor distry. Urgent rectification work of arresting leakage of canal between ch.15m to 400m.	Kollam	::	Kallada Irrigation project Rectification works	4.97	1 month
9	KIP (O&M) urgent rectification work of Vallicode minor distry. From ch.580m to 2220m	Kollam	::	::	5.66	1 month
10	KIP(O&M) urgent rectification work of Payyanalloor distry. From ch.0m to 4680m	Kollam	::	::	5.01	1 month
11	KIP(O&M) urgent rectification work of Paranthal distry.from ch.1000m to 2000m.	Kollam	::	::	3.78	1 month
12	KIP(LB) construction of a leading channel at tail end portion and side protection work of Kudavattoor distry from Ch.2800m to 2866.	Kollam	New	::	5.85	1 month

13	KIP(O&M) Urgent rectification work to transition and side protection works from Ch.0m to 225m of SBC	Kollam	Renovation	::	12.84	1 month
14	KIP(LB) Kudavattoor disrty lining -relining and protection wall from ch.150m to 650m.	Kollam	::	::	6.3	1 month
15	KIP (LB) urgent rectification and protection work to Kudavattoor distry from Ch.2642m to 2800m.	Kollam	::	::	6.51	1 month
16	KIP(RB) Konny distributory urgent rectification to the masonry canal for preventing leakage between Ch.19150m to 19344m and lining with plastering and providing trash track for preventing floating materials.	Kollam	::	::	4.62	1 month
17	KIP(LB) Ooor branch canal urgent rectification and relining between ch.om to 3000m.	Kollam	::	::	9.36	1 month
18	KIP(LB) lining rectification work to prevent leakage relining between ch.1155m to1175m and protection work from ch.4470m of Adichanalloor distry.	Kollam	::	::	2.18	1 month
19	KIP LBC Poovattoor distry. Clearing jungles from ch.3880m to 7000m and from ch.3630m to 3880m for clearing the syphon.	Kollam	::	::	0.8	1 month
20	KIP (O&M) urgent rectification works of Kizhakkeekkara minor distry. No.I between ch.0m to 1730m.	Kollam	::	::	14.53	1 month
21	KIP(O&M) nediyapadom South distry.formation of canal inspection road from Mudakkathara junction to IHRD colony from Ch.8900m to 9115m.	Kollam	New	::	6.96	1 month
22	KIP(LB) rectification of canal between ch.3010m to 3150m of left bank main canal	Kollam	Renovation	::	16.48	1 month

23	KIP(O&M) RBMC urgent rectification works from ch.35685m to 35760m and rectification of super passage at ch.35735m	Kollam	::	::	9.94	1 month
24	KIP(O&M) RBMC urgent rectification works from ch.34850m to 34955m.	Kollam	::	::	10.54	1 month
25	KIP(O&M) RBMC urgent rectification work and leak proofing works between Ch.31830m and 31980m of right bank main canal.	Kollam	::	::	15.82	1 month
26	KIP (LB) improvements to the link road from Kalanjoor padom road to the down stream of Vazhappara aqueduct at ch.31800m of RBMC.	Kollam	::	::	4.11	1 month
27	KIP(LB) urgent rectification work of preventing leakage from ch.2537m to 2595m of Edathara distry.	Kollam	::	::	3.48	1 month
28	KIP(LB) urgent rectification and maintainance work of KIP(RB) Circle office Kottarakkara.	Kollam	::	::	4.98	1 month
29	KIP(RB) removal of calcination from the exist and surface of vertical drain for upward from gallery of Dam and clearing the Gallery.	Kollam	::	::	8.39	1 month
30	KIP(RB) painting inside the gallery and marking chainages levels and warming boards	Kollam	::	::	7.18	1 month
31	KIP(O&M) Melila East distry. Rectification of canal work between ch. 4230m to 5340m.	Kollam	::	::	12.54	1 month
32	KIP (RB) maintainance of KIP Ravi Nagar colony campus road.	Kollam	::	::	7.76	1 month
33	KIP(O&M) Melila East distry. Rectification of canal between ch. 6350m and 6520m.	Kollam	::	::	3.88	1 month
34	KIP(LBMC) urgent rectification of preventing leakage at under tunnel portion of ch.2195m of LBMC.	Kollam	::	::	7.22	1 month

35	KIP(LB) urgent rectification works of collapsed portion at ch 12525m and damaged lining of LBMC from ch 12470m to 12600m.	Kollam	::	::	8.92	1 month
36	KIP(O&M) urgent rectification works of Ammakandakara distry from ch.0m to 2210m.	Kollam	::	::	3.75	1 month
37	KIP(O&M) urgent rectification works of Pandalam branch canal from ch.9600m to 10000m.	Kollam	::	::	5.13	1 month
38	KIP(O&M) urgent rectification works of Peringanadu distry.from ch 0m to 3207m and its shutter.	Kollam	::	::	6.07	1 month
39	KIP(O&M) urgent rectification works of Kadakkadu distry. From ch.2000m to 3000m including lining and beam rising.	Kollam	::	::	5.78	1 month
40	KIP(O&M) Pandalam branch canal urgent rectification works from ch.1000m to 2000m.	Kollam	::	::	5.81	1 month
41	KIP(O&M) Pandalam branch canal urgent rectification works from ch.10900m to 11560m.	Kollam	::	::	4.92	1 month
42	KIP(LB) Oyoor branch canal urgent rectification and relining between ch.17100m to 17300m	Kollam	::	::	7.98	1 month
43	KIP(O&M) urgent rectification works of Sasthamcotta branch canal at ch.14250m to 14375m.	Kollam	::	::	7.66	1 month
44	KIP(O&M) construction of road culvert at ch.14273m of Kallukuzhy.	Kollam	::	::	12.61	1 month
45	KIP LBMC Rectification works of canal between ch.1328m to 1478m.	Kollam	::	::	13.43	1 month
46	KIP LBC - Rectification works of Chackiyara distry. From Ch.0m to 700m.	Kollam	::	::	2.98	1 month
47	KIP-RBC-Preventing leakage from ch.1193m to 1230m of Edathara distry.	Kollam	::	::	2.97	1 month

48	KIP(LBMC) rectification of leakage and damaged lining between Ch.12370m to 12470m.	Kollam	::	::	2.96	1 month
49	Urgent rectification works of chamavila minor distributory from Ch 0m to 2850m	Kollam	::	::	17.16	1 month
50	Improvements of canal bank road from Ch 9700m to 12900m	Kollam	::	::	24.08	1 month
51	Dam safety works - cement washing to the down stream face of the dam	Kollam	::	::	14.41	1 month
52	Providing chipping carpet to the canal bank road from Ch 16500m to 19000m	Kollam	::	::	26.44	1 month
53	Improvements of canal bank road from Ch 6410m to 9642m of sasthancotta branch canal	Kollam	::	::	24.50	1 month
54	Urgent rectification works to the damaged portion of LB main canal between ch 46000m to 47600m	Kollam	::	::	15.35	1 month
55	Improvements of canal bank road from Ch 3200m to 6410m of sasthancotta branch canal	Kollam	::	::	24.44	1 month
56	Rectification of canal inspection road between Ch 39296m and 41450m	Kollam	::	::	22.28	1 month
57	Improvements of canal bank road from Ch 0m to 3200m of sasthancotta branch canal	Kollam	::	::	24.62	1 month

MINOR IRRIGATION DIVISION IDUKKI

1	P.M - Protecting the sides of Valliyadithodu and rectification works of cross bar near palakkal purayidam of Amayapra in Udumpanoor Panchayat	Idukki	Renovation	Project Maintenance Improving Irrigation facilities	10.10	28 days
2	P.M - Improvements of Right branch canal to Meladi canal near Ch.600 m (Near Mallar swami Kovil) in Marayoor panchayath	Idukki	::	::	7.80	1 month
3	P.M - Maintenance of VCB at Korangati ST colony padasekharam and extension of canal in Adimaly	Idukki	::	::	10.00	1 month

	panchayath.					
4	P.M - Maintenance of VCB and construction of protection wall of Kandathilpalam in Rajakumary Panchayath	Idukki	::	::	10.00	1 month
5	P.M - Urgent rectification works to Deviyar thodu near Matakayil fields of Kanjiraveli in ward No, XX of Adimaly panchayath.	Idukki	::	::	8.00	18 days
6	P.M - Improvements of Keerakkadu canal Between Ch:150 m and 400 m in Marayoor panchayath	Idukki	::	::	8.00	1 month
7	P.M - Improvements of Manjappety canal between CH:1050m and 1400M in marayoor panchayath.	Idukki	::	::	7.50	1 month
8	P.M - Improvements of Kattakkadu canal.Extension of tailend to pethumvayal canal,Construction of surplus escape etc. in Marayoor panchayath.	Idukki	::	::	7.00	1 month
9	P.M - Improvements of Ramarkovil Kulachivayal canal 0 to 450m in Kanthalloor Panchayath	Idukki	::	::	7.00	1 month
10	P.M - Improvements of Pongampilly Edakkadavu canal between Ch: 1000m and Ch: 1750m in Kanthalloor panchayath	Idukki	::	::	7.50	1 month
11	P.M - Improvements of TRB canal between CH: 2650m and 2850m in Marayoor panchayath	Idukki	::	::	8.00	1 month
12	P.M - Urgent maintenance to Machiplavu canal in Adimaly panchayath.	Idukki	::	::	10.00	1 month
13	P.M - Urgent maintance and protection works to Erattayar weir in ward No. 3 of Erattayar Panchayath.	Idukki	::	::	10.00	1 month
14	P.M - Side protection works to Erattayar weir at D/S of Ettakkanam bridge of in Ward No.3 of Erattayar Panchayath	Idukki	::	::	12.00	1 month
15	P.M - Protecting the banks of Karimannoor thodu at Thekkinkkoottam near Parathazham purayidam bhagam in Karimannoor panchayath.	Idukki	::	::	12.00	1 month
16	P.M - Rectification and renovation of Palliyadipady pond in Vandiperiyar Panchayath	Idukki	::	::	15.00	1 month

17	P.M - Rectification and renovation of 62 nd mile pond in Vandiperiyar Panchayath	Idukki	::	::	15.00	1 month
18	P.M - Improvements of TRB canal between CH: 1100 m and 2000 m in Marayoor panchayath	Idukki	::	::	8.00	1 month
MINOR IRRIGATION DIVISION WAYANAD						
1	Erection of pump and motor and construction of project road for perikkalloor Lift Irrigation Scheme in Mullankolly panchayath	Wayanad	Renovation	Project Maintenance Improving Irrigation facilities	8.00	1 month
2	Renovation Of Irrigation Tank at Kappankolly and extension of canal in Kottathara Panchayath	Wayanad	::	::	13.00	1 month
3	Side protection work to Upstream side (right side) of VCB at Cherupuzha Lift Irrigation Scheme in Kottathara Panchayath	Wayanad	::	::	12.00	1 month
4	Urgent Protection work to Kakkadavu Lift Irrigation scheme in Vellamunda Panchayath	Wayanad	::	::	12.00	1 month

ANNEXURE 8: DETAILS OF DROUGHT RISK REDUCTION WORKS PROPOSED BY DEPT. OF GROUND WATER

Emergency works proposed in Idukki District

A. Proposal for Hand pump repair

I. Rough cost estimate for the repair of hand pumps at various panchayaths of Idukki constituency in Idukki dist.

Sl.No	Name of panchayath	No. of hand pumps to be repaired
1	Arakkulam	13
2	Kamakshy	2
3	Kanchiyar	18
4	Kudayathoor	4
5	Mariyapuram	10
6	Vazhathoppe	8
	Total	55

Total cost for the repair of 55 hand pumps Rs.3, 65,269/- (@Rs. 6325/each for repair Rs.3, 47,875/- and 5% over head charges Rs.17, 394/-).

II. Rough cost estimate for the repair of hand pumps at various panchayaths of Peermedu constituency in Idukki dist.

Sl.No	Name of panchayath	No. of hand pumps to be repaired
1	Chakkupallam	8
2	Kumily	14
3	Peermedu	20
4	Vandiperiyar	11
	Total	53

Total cost for the repair of 53 hand pumps Rs.3, 51,986/- (@Rs. 6325/each for repair Rs.3, 35,225/- and 5% over head charges Rs.16, 761/-).

III. Rough cost estimate for the repair of hand pumps at various panchayaths of Thodupuzha constituency in Idukki dist.

Sl.No	Name of panchayath	No. of hand pumps to be repaired
1	Alakkodu	6
2	Karimkunnam	16
3	Kodikkulam	6
4	Kumaramangalam	7
5	Vannappuram	12
6	Velliyamattom	8
	Total	55

Total cost for the repair of 55 hand pumps Rs.3,65,269/- (@Rs. 6325/each for repair Rs.3,47,875/- and 5% over head charges Rs.17,394/-)

IV Rough cost estimate for the repair of hand pumps at various panchayaths of Udumbanchola constituency in Idukki dist.

Sl.no	Name of panchayath	No. of hand pumps to be repaired
1	Erattayar	9
2	Kattappana	2
3	Nedumkandam	14
4	Pampadumpara	24
5	Udumbanchola	11
6	Upputhara	24
7	Vandanmedu	8
	Total	92

Total cost for the repair of 92 hand pumps Rs.6, 10,995/- (@Rs. 6325/each for repair Rs.5, 81,900/- and 5% over head charges Rs.29, 095/-)

2. Abstract of proposed Hand pump repair

Sl.No	Name of LAC	No. of Hand pumps to be repaired	Estimated amount
1	Idukki	55	365269
2	Peermedu	53	351986
3	Thodupuzha	55	365269
4	Udumbanchola	92	610995
	Total	255	1693519

Grant total for 255 Hand pumps is Rs. 16,93,519/- (Rupees Sixteen lakh ninety three thousand five hundred and nineteen only)

B. Bore well with H/P Scheme

Sl.No	Location	Panchayat	Amount
1	Kamblikandam ST Colony ,W-14	Konnathady	55,600
2	Panamkutty- Pallibhagam, W-14	Konnathady	53,200
3	Mangappara-Nirappedy-, W-2	Konnathady	55,000
4	Panamkutty- Ambalam Bhagam, W-14	Konnathady	54,100
5	Panniyarkutty, W-1	Konnathady	54,600
6	Santhigram, W-XIII	Erattayar	55,650
7	Ezhukumvayal, W-5	Erattayar	53,800
8	Govt.Homeo Hospital Ettithoppu, W-2	Erattayar	57,400
9	Double Cutting- Kuzhimattampady, W VI	Mariyapuram	56,100
10	Mattappallikavala, W XI	Mariyapuram	54,900
11	Narakakkanam, W-8	Mariyapuram	55,500
12	Narakakkanam-Pallikavala, W-7	Palamattom Pady	56,200
13	Vallakkadavu, W-16	Kattapana	54,400
14	34 th Mile W-14, Mudakkayam	Peruvanthanam	53000
15	Illichary Palli	Muttom	50000

Total fund required for Borewell with Hand Pump Schemes (15 Nos.) Rs. 818450/-

C. Conversion of Hand pump schemes to Micro Water Supply Schemes.

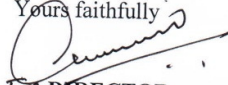
Sl.No	Name of site	Panchayath	LA Constituency	Rough Estimate amount
1	Thankamany Market Junction	Kamakshy	Idukki	600000.00
2	Kochukamakshy temple area near Chempakappara School	Erattayar	Udumbanchola	250000.00
3	Njarakkavala area	Erattayar	Udumbanchola	250000.00
4	Valiyamattam pady Neelandan kavala road	Erattayar	Udumbanchola	250000.00
5	Kuzhikkattupady	Erattayar	Udumbanchola	250000.00
6	Mottakkunnu-Pulikkalpady	Erattayar	Udumbanchola	250000.00
7	4-Cent Colony, Panthamakkal pady	Erattayar	Udumbanchola	250000.00
8	Puthuparambil pady	Erattayar	Udumbanchola	250000.00
9	Olikkalpady	Erattayar	Udumbanchola	250000.00
10	Kollipparapady	Erattayar	Udumbanchola	250000.00
11	Nellippara madom pady	Erattayar	Udumbanchola	250000.00
12	Paravalavu	Erattayar	Udumbanchola	250000.00
13	Theemblangattu pady	Erattayar	Udumbanchola	250000.00
14	Panamkutty Town	Konnathady	Devikulam	250000.00
15	Pallikavala Mutt am GP	Muttam		225000.00
Borewell with Micro Water Supply Scheme				
1	Near Panamkutty Temple	Konnathady	Devikulam	300000.00
2	Mangappara-Chemblamkuzhy Bhagam	Konnathady	Devikulam	300000.00

Total Rs.46,75,000/-

Abstract of the Schemes proposed for Idukki, Thiruvananthapuram and Kollam

1. Hand Pump repair	-----	Rs. 16,93,519/-
2. Borewell with Hand Pump Scheme	-----	Rs. 8,18,450/-
3. MWSS	-----	Rs. 46,75,000/-
Total fund required for Drought Works	-----	Rs. 71,86,969/-

Sl. No.	District	Village	No. of Habitations	No. of Habitations affected	Emergency works proposed & approximate cost estimates thereon (Rs. In Lakh)				
					Tubewell/Borewell based schemes			Total	
					No.	Anticipated Cost	Actual Expenditure	Anticipated Cost	Actual Expenditure
1.	Thiruvananthapuram	Pallichal		50	1	4,10,000/-		4,10,000/-	
2.	Kollam	Sasthamkotta		75	1	3,60,000/-		3,60,000/-	
		Kulak kada		85	1	4,35,000/-		4,35,000/-	
		Kulak kada		90	1	4,38,000/-		4,38,000/-	
TOTAL								16,43,000/-	

Yours faithfully

DIRECTOR

ANNEXURE 9: DETAILS OF LOSSES INCURRED BY KERALA STATE ELECTRICITY BOARD DUE TO DROUGHT

Details of Water level and storage in major reservoirs of KSEB as on October 1st

Dam	FRL (m)	Effective storage at FRL(Mm ³)	Gross storage at FRL(Mm ³)	2007		2008		2009		2010		2011		2012		Average storage during past 5 years (Mm ³)	Shortage of storage on 2012 (Mm ³)	Loss of generation (MU)								
				Water Level (M)	Storage (Mm ³)	Water Level (M)	Storage (Mm ³)	Water Level (M)	Storage (Mm ³)	Water Level (M)	Storage (Mm ³)	Water Level (M)	Storage (Mm ³)	Water Level (M)	Storage (Mm ³)											
IDUKKI District																										
Idukki	732.43	1459.70	1996.56	731.77	1960.06	717.73	1264.60	721.49	1429.50	724.51	1570.37	728.94	1803.99	710.79	998.69	1605.70	607.01	892.66								
Anayirankal	1207.01	49.00	49.85	1204.65	31.85	1200.50	22.58	1201.25	26.89	1201.50	28.00	1202.66	31.26	1195.10	10.21	28.12	17.91									
Ponmudi	707.75	47.40	51.55	707.65	45.94	704.50	38.07	704.90	39.07	701.35	31.27	704.10	37.07	701.25	31.07	38.28	7.21	11.79								
Kundala	1758.69	7.80	7.82	1758.55	7.67	1758.60	7.71	1758.50	7.63	1756.30	6.10	1758.70	7.79	1750.90	3.37	7.38	4.01	5.65								
Madupetty	1599.59	55.22	55.35	1599.59	55.22	1599.10	53.70	1594.60	41.90	1592.55	36.90	1598.80	52.80	1588.15	28.10	48.10	20.00	25.32								
THRISSUR District																										
Sholayar	811.68	149.23	153.48	811.68	149.23	811.20	144.85	811.53	147.75	810.65	139.92	811.13	144.34	811.07	143.83	145.22	1.39	0.93								
Poringalkuthu	423.98	30.30	32.00	423.98	30.30	422.30	25.50	422.65	26.38	423.00	27.13	421.45	23.38	413.30	17.40	26.54	9.14	3.23								
Kozhikode District																										
Kuliyadi	758.40	33.99	38.39	758.04	33.98	748.89	13.65	755.69	28.12	756.09	29.10	751.48	18.76	749.96	20.11	24.72	4.61	6.50								
Ernakulam District																										
Idamalayar	169.00	1017.80	1089.80	169.12	1021.28	154.70	625.11	161.88	812.90	157.76	701.00	168.56	1005.04	148.80	560.34	833.07	272.73	68.18								
Pathanamthitta District																										
Pamba	986.33	31.10	39.20	983.65	33.78	979.65	27.18	979.55	27.03	974.50	19.45	977.55	24.03	964.00	8.68	26.29	17.81	328.63								
Kakki	881.45	446.50	454.10	880.85	442.83	879.55	419.84	878.96	409.99	874.18	340.44	877.47	396.75	862.78	213.83	399.97	186.14									
																TOTAL		1342.89								

DETAILS OF GENERATION DURING 2012-13

Month	Targetted generation (MU)	Actual/ anticipated (MU)	Reduction in energy (4)-(2)-(3) (MU)	Generatio from Liquid fuel stations in MU (Actual till sept + Anticipated till Mar '13)					Purchase in mu from exchange and traders	Total	Total Amount in Cr.
				RGCCPP	BSES	KPCL	KDPP	BDPP			
-1	-2	-3									
Apr-12	621.20	550.60	70.60	69.44	0.00	0.79	45.13	5.67	62.77	183.80	
May-12	631.90	662.90	-31.10	8.02	0.00	0.21	28.07	1.09	101.81	139.20	
Jun-12	495.40	502.60	-7.30	0.00	0.00	0.00	21.20	1.20	194.06	216.47	
Jul-12	519.30	423.30	95.90	63.71	0.00	0.03	25.43	1.25	361.95	452.37	
Aug-12	581.80	425.30	156.50	180.47	0.00	0.57	37.01	3.93	314.76	536.74	
Sep-12	598.40	500.40	98.10	160.43	21.86	0.00	32.78	7.47	217.89	440.42	
Oct-12	603.80	310.00	293.80	198.00	0.00	0.00	32.78	7.47	239.89	478.13	
Nov-12	525.10	330.00	195.10	198.00	0.00	0.00	32.78	7.47	239.89	478.13	
Dec-12	554.90	372.00	182.90	198.00	0.00	0.00	32.78	7.47	239.89	478.13	
Jan-13	566.00	403.00	163.00	198.00	0.00	0.00	32.78	7.47	239.89	478.13	
Feb-13	570.40	406.00	164.40	198.00	0.00	0.00	32.78	7.47	239.89	478.13	
Mar-13	725.00	496.00	229.00	198.00	0.00	0.00	32.78	7.47	239.89	478.13	
Total	6993.00	5382.10	1610.90	1670.07	21.86	1.60	386.28	65.41	2692.57	4837.79	4837.79

Excess power purchase during 2012-13 due to increase in consumption over the period 2011-12

Excess power purchase during 2012-13 due to drought =

@ Rs. 10 per unit

1610.90 Cr

= Rs

1610.90 Mu

2241.16 MU

Targetted Generation for April '12 to Sept '12

Actual Generation from April '12 to Sept '12

Reduction in Generation from April '12 to Sept '12

Targetted Generation from Oct '12 to March '13

Anticipated Generation from Oct '12 to March '13

Reduction in Generation from Oct '12 to March '13

3448.00 Mu

3065.20 Mu

382.80 Mu


3545.10 Mu

2317.00 Mu

1228.10 Mu


 CHIEF ENGINEER (COMM & TARIFF)

Sample Invoice

TARIFF INVOICE				
Bill No. BKPL/KSEB/TY-11/2012-13/01 -			April-12	
To Member (Finance) Kerala State Electricity Board Vydutha Bhavanam, Pattom Post, Thiruvananthapuram			Date of billing 1-May-12	
Period	From	On	To	On
Billing Period	12:00 hrs	1-Apr-2012	12:00 hrs	1-May-2012
Tariff Period	12:00 hrs	1-Nov-2011	12:00 hrs	1-Nov-2012
SLNo.	Particulars			Value (₹)
1	Variable Charges	Net Export in kWh		-
		FCF (kg/kwh) - Refer Annexure No.		0.1763
		Fuel Quantity (MT)		-
		Rate /MT - Refer Annexure No. 4		55,334.0543
	I	Total Variable Charges		-
2	Fixed Charges			
		Foreign Debt Service		-
		Other Fixed Charges		76,143,248
		Land Lease Adj. Charges		1,008,091
		Total Fixed Charges		77,151,339
3	Reduction in Fixed Charge			
		Rebate of 0.03/kWh - from Rupee Component		2,708,439
	II	Net Fixed Charge claim for the month		74,442,900
	III	Total Claim for the month		74,442,900
		(Rupees Seven crores forty four lakhs forty two thousand nine hundred only)		
				For BSES Kerala Power Limited
CERTIFICATE				
Item <u>1, 2 & 3</u> of the bill is verified and found correct. The claim has not been preferred previously. Provisional payment may be arranged for Rs. <u>7,17,29,150/-</u>				
TIN No. 32070454672 CST No. 32070454672C PAN: AABC83724C		 Authorised Signatory		
E&OE		For <u>Joseph</u> CHIEF ENGINEER (Commercial & T. F.)		
Enclosure FC - 7.320042 Cr We - -1472089/-				
Annexure 1	Computation of Fixed Charges			
Annexure 2	Joint Meter Reading			
Annexure 3	Computation of Deemed Generation and Fuel Consumption Quantity			
Annexure 4	Computation of fuel weighted average			
Annexure 5	Computation of PLF			

ANNEXURE 10: DETAILS OF DROUGHT RISK REDUCTION WORKS PROPOSED BY DEPT. OF HEALTH SERVICES

Contingency Plan to tackle Drought- Health Services					
Sl.No	District (Coastal villages)	Activity	No	Cost/unit	Total Cost
1	TVM, KLM	R.O plant	45	10L/unit	4.50 Cr.
2	IEC activites in drought prone districts	Multiple activites		10 L/districts	50 L
	Committed Exp				5.5 L
TOTAL					5.05 Cr.

ABSTRACT ESTIMATE PER UNIT

SL NO	PARTICULARS	AMOUNT
1	TUBE WELL (Apprx. 75M depth)	2,00,000.00
2	RO Plant (2000 Litres/Hour)	4,50,000.00
3	RAW WATER STORAGE TANK (10000 LITRES)	70,000.00
4	DRINKING WATER TANK (SS - 5000 LITRES)	1,50,000.00
5	UNFORESEEN ITEMS	1,30,000.00
TOTAL		10,00,000.00




Director of Health Services

ANNEXURE 11: DETAILS OF LOANS AND DEBTS OF THE FARMERS IN WAYANAD DISTRICT

വായ്പാട് ഇല്ലയിലെ കർഷകർ സഹകരണ സംഘങ്ങൾ/ബാങ്കുകളിൽ നിന്നും എടുത്തിട്ടുള്ള വായ്പകളുടെ
 30.09.12 ലെ ബാക്കി നിൽപ്പ് വിവരം
 (തുക ലക്ഷത്തിൽ)

ക്രമ നമ്പർ	താലൂക്ക്/ബാങ്ക്	മുതൽ(ലക്ഷം)	പിരിയ(ലക്ഷം)	അടയ്ക്കൽ വർഷത്തുകയടയ്ക്കുന്ന പിരിയ(ലക്ഷം)
1	വൈപ്പിരി	6271.30	621.39	260.71
2	മനയവാടി	13723.04	1546.10	862.37
3	സുൽത്താൻ ബത്തേരി	15380.83	2661.83	783.66
4	ഡി.സി.ബി	244.15	65.87	13.25
5	പി സി എ ആർ ഡി ബി	8946.77	1444.29	608.57
	ആകെ	44565.79	6339.48	2548.56


 JOINT REGISTRAR
 OF CO-OP SOCIETIES (GENERAL)
 WAYANAD, KALPETTA
 Pen

445.66
 260.71
 783.66

**CANARA BANK
LEAD BANK OFFICE, KALPETTA**

Ref No. LB/WYD/18/459/12/KTG

Date :18-10-2012.

To :

**The Secretary to Kerala Debt Relief Commission
Trivandrum.**

34197

Respected sir,



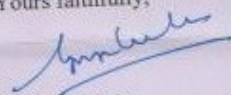
Sub : Provisional Agricultural Loan outstanding in Wayanad district as on date.

Ref : Your Telephonic instruction

With reference to above we submit the data
Agricultural Loan out standing in Wayanad district (Provisional) is 940.00 crores.
Approximate Interest at 12% for one year is Rs. 115.00 crores

Thanking you.

Yours faithfully,


K T GEORGE.
LEAD DISTRICT MANAGER

ANNEXURE 12: STATUS OF EXPENDITURE FROM CALAMITY RELIEF FUND

Status of expenditure from Calamity Relief Fund

Year:2012

State:Kerala

Rs.in Crores

SL No.	Item	Amount
	(I)Receipts	
1	Opening balance in CRF account as on 1.04.2012(of financial year)	
	(a) CRF	44.6579
	(b)NCCF	109.69.This amount could not be expended in the previous financial year as the fund was released to the State Government on the last day of the financial year.
	(c)Total	154.3479
2	CRF releases made during instant financial year(Central and State share)	
	(a)First installment	Central share:54.19 State share :18.06
	(b)Second installment	Nil
	(c)Total	72.2500
3	NCCF releases during the instant financial year,if any	Nil
4	Interest received on investments made as per the CRF Scheme	Nil(yet to be credited)
5	Total funds available in the CRF account(1+2+3+4)	226.5979
	(II)Expenditure	
6	Expenditure incurred as per norms on approved natural calamities as per the Scheme of CRF/NCCF(indicate calamity wise expenditure)	206.0555
	(a)Drought	26.6500
	(b)Flood, landslides etc	179.4055
7	Expenditure incurred on training to specialised Teams of the State Personnel	Nil
8	Expenditure incurred on procurement of search and rescue equipment etc.(as per extant approved items)	7.1406
9	Total expenditure incurred(6+7+8)	213.1961
10	Balance available in the CRF account of the instant financial year:-	
	(a)CRF	13.4018
	(b)NCCF	Nil
	(c)Total	13.4018