

Memorandum

Monsoon Calamity Losses 1 June to 31 July 2013

Revised after the visit of the IMCT (20-23 July 2013)



Submitted by

**State Relief Commissioner & Secretary
Department of Revenue and Disaster Management
Government of Kerala**

1-08-2013

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1. Situation Assessment

1.1. Introduction

Monsoon preparedness in the State of Kerala began with the long range forecast of the monsoon issued by the Indian Meteorological Department on 26th April 2013. In its forecast the IMD indicated that

“Southwest monsoon seasonal rainfall for the country as a whole is most likely to be Normal (96-104% of Long Period Average (LPA)) with the highest probability of 46%. The probability (27%) of seasonal rainfall to be below normal (90-96% of LPA) is also higher than its climatological value. However, the probability for the seasonal rainfall to be deficient (below 90% of LPA) or excess (above 110% of LPA) is relatively low (10% and 3% respectively). Quantitatively, the monsoon seasonal rainfall is likely to be 98% of the LPA with a model error of $\pm 5\%$.”

This prediction was not very promising for Kerala’s situation given the fact that the State was suffering from severe drought when this prediction of IMD was released. The situation that was created by the drought (historic low in all major reservoirs and alarmingly low ground water levels) which began in August 2012 had already pushed the State exchequer and the State Disaster Response Fund to its limits. The drought situation and the interim intense rainfall in few parts of Kerala had depleted the funds substantially and the Government of Kerala had approached the Government of India with three separate memoranda seeking central assistance for drought relief (dated 31-10-2012 & 23-02-2013) and landslide and flood losses (dated 17-09-2012).

Given the prediction of ‘normal monsoon’ by IMD the Government was preparing for facing a normal monsoon. IMD declared onset of monsoon on 1st June 2013 and from that date onwards the State was lashed by heavy rainfall. On contrary to the prediction by IMD, the monsoon exceeded expected limits. This resulted in landslides and floods in several districts of the State and consequently heavy loss to life and property. Beach loss and coastal flooding caused significant damages across the coastline of the State. Floods caused several villages to be evacuated and housed in relief camps. Many more were moved to the houses of relatives by the respective district administration.

As the State Governments machinery could not cope with the disastrous situation the National Disaster Response Force and the Coast Guard was pressed into service. Thus the events that occurred in Kerala since 1 June 2013 qualifies to be **disasters** as they *exceeded the ability of the 'affected people (the State Government)' to cope using their own resources*. This document provides a detailed report of the damages that occurred to life and property in the State due to landslides and floods during the South West Monsoon season of 2013.

The Government of Kerala was forced by the calamity situation caused by intense and excessive monsoon rainfall to approach Government of India again with a preliminary memoranda seeking assistance to tide over the compounding financial burden caused by the historic drought of 2012-13 and the on-going excessive monsoon rainfall and related calamity on 4 July 2013. The Govt. of Kerala had requested the Inter-ministerial Central Team to permit the Government to submit a final memorandum for the period 1 June to 31 July 2013 as assessment in many sectors were not complete by 4 June 2013. The present memorandum is based on the agreement that was arrived in the debriefing of the IMCT with Honb'le Chief Minister of Kerala held on 23 July 2013 in Thiruvananthapuram.

1.2. Monsoon preparedness of the State

Anticipating a normal monsoon, the State government undertook the following preparedness measures.

Table 1: Monsoon preparedness time line		
Sl. No	Action taken	GO/UO note/Letter No. & date
1	Special Cabinet on drought and monsoon calamity – reviewed the drought situation and evaluated the monsoon predictions of IMD	30 April 2013
2	A list of activities recommended for mitigating monsoon calamities, prepared by the Hazard, Vulnerability and Risk Assessment Cell, Department of Disaster Management, was communicated to the Government	HVRA/Proj/94/2012 dated 07-05-2013

3	As per the recommendation of HVRA Cell, DMD department recommended to Secretary, LSGD to convene a meeting of all LSG heads to coordinate with District Administration	Ltr. No. 23410/K1/2013/DMD dated 15-05-2013
4	Head (Scientist), HVRA Cell appointed as State Nodal Officer for Monsoon Calamity data collection and memorandum preparation	GO (Rt) No. 2834/2013/DMD dated 20-05-2013
5	As per the recommendation of HVRA Cell, Office of KSDMA was instructed to ensure proper functioning of the VHF control rooms under Revenue department, across the state	Ltr. No. 23410/K1/2013/DMD dated 23-05-2013
6	As per the recommendation of HVRA Cell, Dept. of Health was instructed to stock enough medicines in all PHC and Health Care Centres to tackle wet period epidemics	UO Note. 23410/K1/2013/DMD dated 23-05-2013
7	As per the recommendation of HVRA Cell, Dept. of Food and Civil Supplies was instructed to stock rice (100 kgs), cereals (two kinds; 20 kg each), cooking oil (10 ltrs) & kerosene (75 ltrs) per taluk & the provisions shall be made available to any location within the district as per the direction of the District Collector. Additional supplies also may be arranged in case of further necessity in short notice.	UO Note. 23410/K1/2013/DMD dated 23-05-2013
8	Secretary, Revenue and Disaster Management as State Relief Commissioner convened the statutory pre-monsoon meeting with departments	Held on 27-05-2013
9	Direction sent to all District Collectors to furnish daily natural calamity report via email to	Ltr. No. 30816/K2/2013/DMD dated 03-06-2013

	Revenue Department and HVRA Cell and instructed them to open district level control rooms in wake of any emergency	
10	Based on the recommendation of HVRA Cell, DM department released an amount of Rs. 6.24 crores from SDRF to District Collectors for meeting the requirements of South West Monsoon 2013	GO (Rt) No. 3248/2013/DMD dated 07-06-2013
11	Minutes of the pre-monsoon meeting issued as circular to District Collectors and directed them to ensure strict compliance to the same	23410//K1/2013/DMD dated 13-06-2013
12	Special Cabinet for assessing Monsoon Calamity loss	20-06-2013
13	<p>Video conference of Honb'le Chief Minister and Honb'le Minister for Revenue with all District Collectors to assess Monsoon Calamity</p> <ul style="list-style-type: none"> • Honb'le Chief Minister directed Ministers in-charge of each districts to convene urgent meeting of People's Representatives and Officials for monsoon calamity management in the respective districts • Monsoon calamity memorandum to be submitted to Government of India by 2nd week July 	21-06-2013
14	Letter requesting free ration allocation from Central Govt. sent to Minister of Food and Civil Supplies by Honb'le Chief Minister – Requested for 5900 metric tonnes of rice and 657 metric tonnes of wheat for two weeks free rationing at BPL rates	21-06-2013

15	Letter informing the calamity situation sent by Secretary, R & DM to Member, NDMA; Secretary, MHA & Secretary, NDMA	21-06-2013
16	<p>Government decided the following and issued Government Order</p> <ul style="list-style-type: none"> • Rs. 2000/- as lump-sum grant for each family in the relief camp • Rs. 1,00,000/- for fully damaged houses and houses certified as unsafe • Ex-gratia for adults – Rs. 2 lakhs • Ex-gratia for children – Rs. 1.5 lakhs • Rock and soil quarrying to be banned until another order • Interim assistance for cremation of dead bodies – Rs. 10,000/- • District Collectors empowered to declare holiday for schools if they deem necessary 	GO (Ms) 270/2013/DMD dated 21-06-2013
17	Rs. 27.59 crs was distributed to all districts from SDRF	GO (Rt) No. 3614/2013/DMD dated 25-06-2013
18	Rs. 5 crs was distributed from SDRF to Alappuzha district considering severe flooding in the district	GO (Rt) No. 3705/2013/DMD dated 29-06-2013
19	Preliminary memorandum submitted to Govt. of India	4-7-2013
20	Visit of Inter-Ministerial Central Team	20-23 July 2013
21	Revised memorandum submitted to Govt. of India	31-07-2013

Table 1a - Highlights of the pre-monsoon meeting (27-05-2013) decisions	
Sl. No	Decision

1.	<p>The pre-monsoon meeting recommended to Department of Local Self Government to accord permissive sanction to Grama Panchayaths, Municipalities and Corporation to apportion at least Rs. 5000/- per grama panchayath wards, Rs. 10,000/- per municipal corporation wards and Rs. 15,000/- per city corporation wards from their own funds as 'ward calamity response fund'. This fund may be used for ensuring immediate response to any calamities that may occur in the respective ward. This was to ensure that grass root level public participation and accountability will be ensured in disaster response and risk reduction.</p>
2	<p>District Collectors shall</p> <ul style="list-style-type: none"> a) To place warning sign boards along landslide and flash flood prone stretches of Ghat roads in consultation with the district officers of PWD. The sign board should advise public not to stop along rivulets and culverts in the Ghat roads during rainy period. b) To place warning sign boards along river banks indicating probability of flash floods and in the banks near to which whirlpools (chuzhi) and deep pits due to sand extraction exists in consultation with respective local self-governments and Irrigation. c) To place warning sign boards along coastline deemed necessary indicating high wave probability in consultation with District Police, District Officer of Harbour Engineering Department and Irrigation.
3	<p>District Collectors are empowered to stop quarry blasting temporarily if rainfall persists in a village for more than 2 days, if such a ban is deemed necessary by the respective District Collector. The ban should be in place until 24 hrs rain free day occurs, after which the blasting may resume with the written concurrence of the District Officer of the Mining and Geology Department. This power shall be accorded to the District Collector from 1st June to 31st December 2013, in light of the possibility of quarry blasting leading to rock fall accidents in the quarry and triggering of debris flows (Urul Pottal) in areas adjoin such quarry.</p>
4	<p>District Collectors may through suitable departments, drain polluted water in abandoned quarry and prepare such quarry ponds for holding fresh water</p>

5	Harbour Engineering Department shall be directed to collect GPS based information regarding the sea wall stretches that are damaged and supply this information same to respective District Collectors and HVRA Cell
6	PWD shall be directed to clean parallel drains and culverts along the Ghat roads for ensuring smooth flow of water

1.3. Monsoon calamity – 1 June to 29 July 2013

Figure 1 shows some photographs depicting damages due to the on-going monsoon calamity in Kerala. A total of 1028 villages (146 coastal and 882 non-coastal) villages have so far been affected by monsoon calamity. Figure 2 shows the villages affected by monsoon calamity (landslide, floods and/or windfall) from 1st June to 29 July 2013. It may be noted that almost the entire coastline of Kerala which is one of India's most densely populated belt has been affected by the severity of the on-going monsoon. Fourteen landslides were reported from the hilly districts of the state. Flood situation is still prevailing in the Kuttanad region of Alappuzha district and the Kol lands of Thrissur district particularly given the on-going heavy discharge from the rivers that drains in to these paddy cultivated area.

Ninety one (145) valuable lives have been lost till 29 July 2013 directly due to monsoon calamity namely drowning in flood waters and windfall. Unlike previous years as the monsoon succeeded a severe drought situation, several epidemics also set in which caused numerous fatalities. Figure 3 shows district wise details of fatality due to monsoon calamity (reported by District Collector) and epidemics (collected from media reports).



Figure 1: Photographs depicting damages due to monsoon calamity in Kerala, 2013

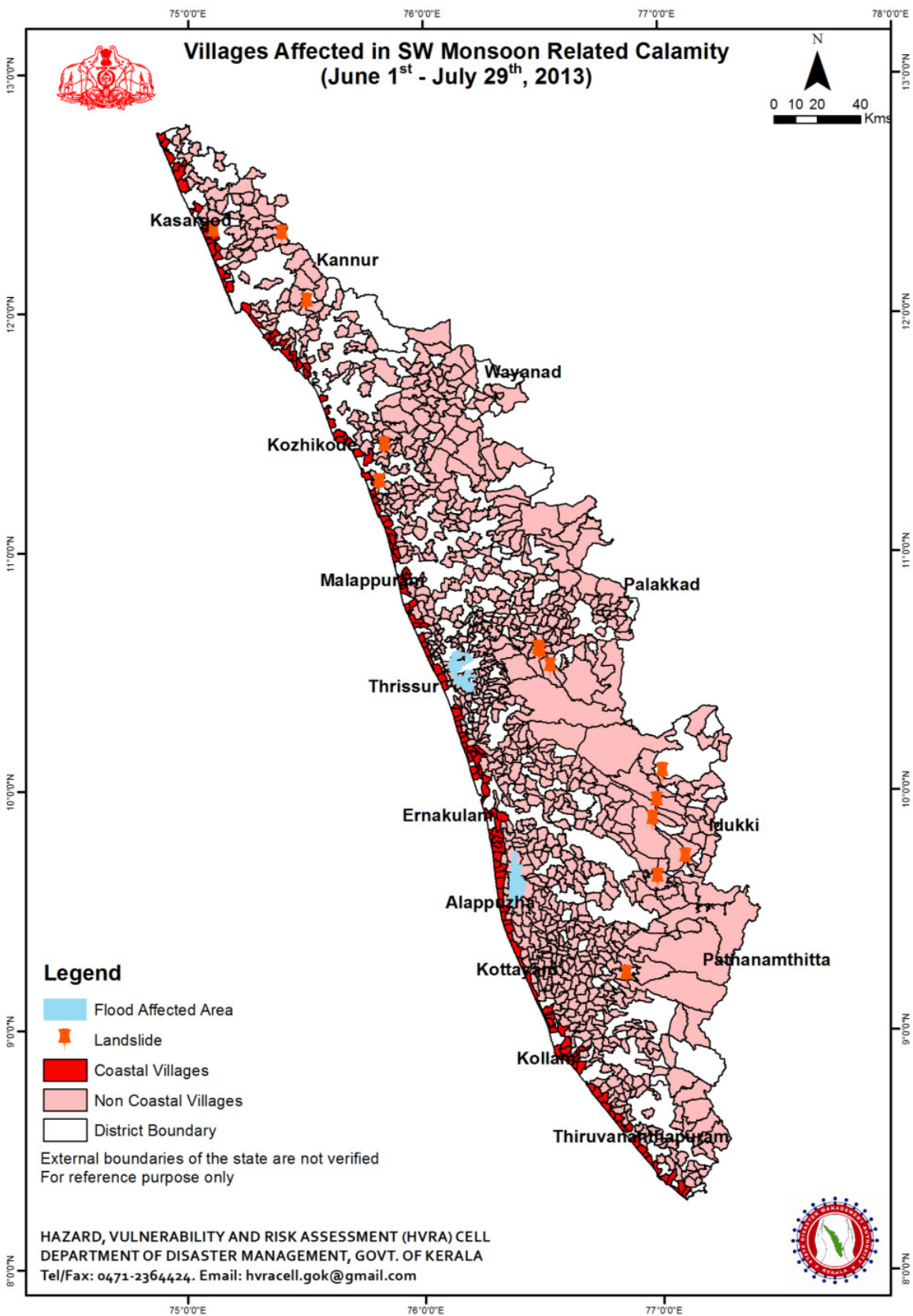


Figure 2: Villages affected by Monsoon Calamity from 1 June 2013 to 29 July 2013

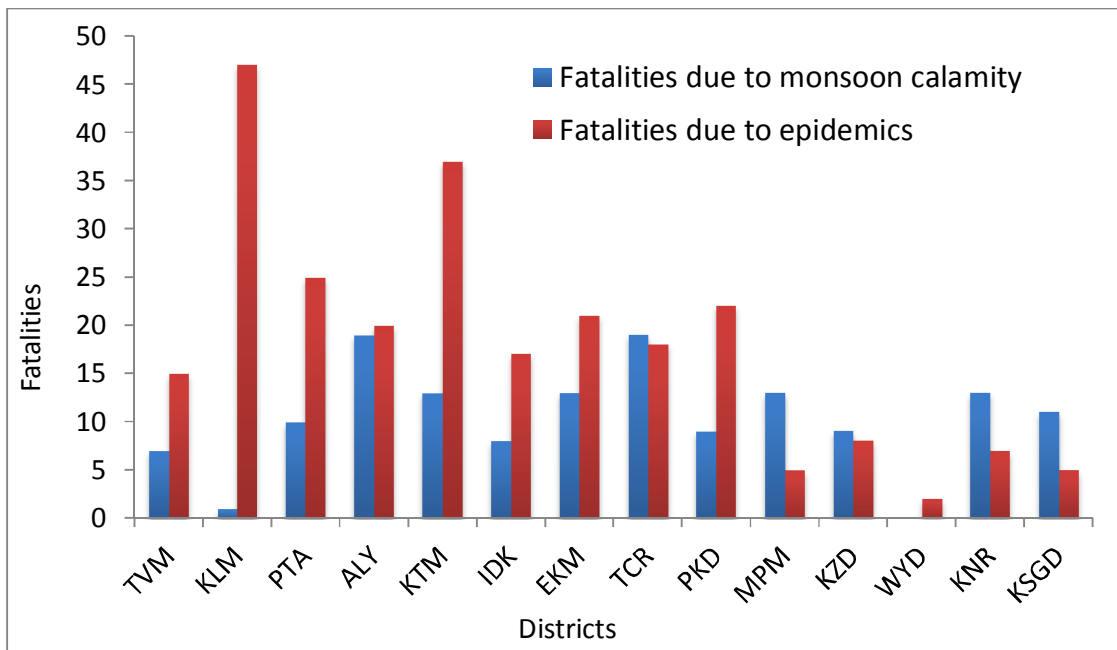


Figure 3: Details of fatalities due to monsoon calamity (based on reports from District Collectors) and epidemics (based on media reports) from 1 June 2013 to 29 July 2013

1.4. Rainfall – 1 June to 29 July 2013

Figure 4 shows the comparison of actual rainfall for the current and the preceding 7 years as per IMD data. From the figure it is evident that the state received almost of 150% excess rainfall in the very first month of South-West Monsoon. The intra-state variability of rainfall in Kerala is very high; instantaneous rainfall at 1000 m above mean sea level can be 150% higher than at 40 m above MSL. Figure 5 shows the district wise actual and expected (normal) rainfall from 1 June 2013. Figure 6 shows instances of cloud cover (INSAT Satellite Images) over Kerala from 1 June 2013 to 29 July 2013. The thick clouds covering the entire state indicate the intense nature of South West Monsoon and this intense of monsoon activity was confirmed by IMD. It is evident from Figure 5 and 6 that Kerala is experiencing excessive rainfall which is the reason for the high rate of calamity in the State.

Note on: Normal (expected) rainfall: The Indian Meteorology Department derives long period average rainfall for each day based on the historic data (over 60 years) available with IMD. This long period average rainfall is considered as the normal or expected rainfall on a given day. The figures are aggregated district wise and is communicated to the State Relief Commissinoer as email against actual rainfall received on the day, on a daily basis. The normal rainfall used for preparing Figure 5 is based on this data.

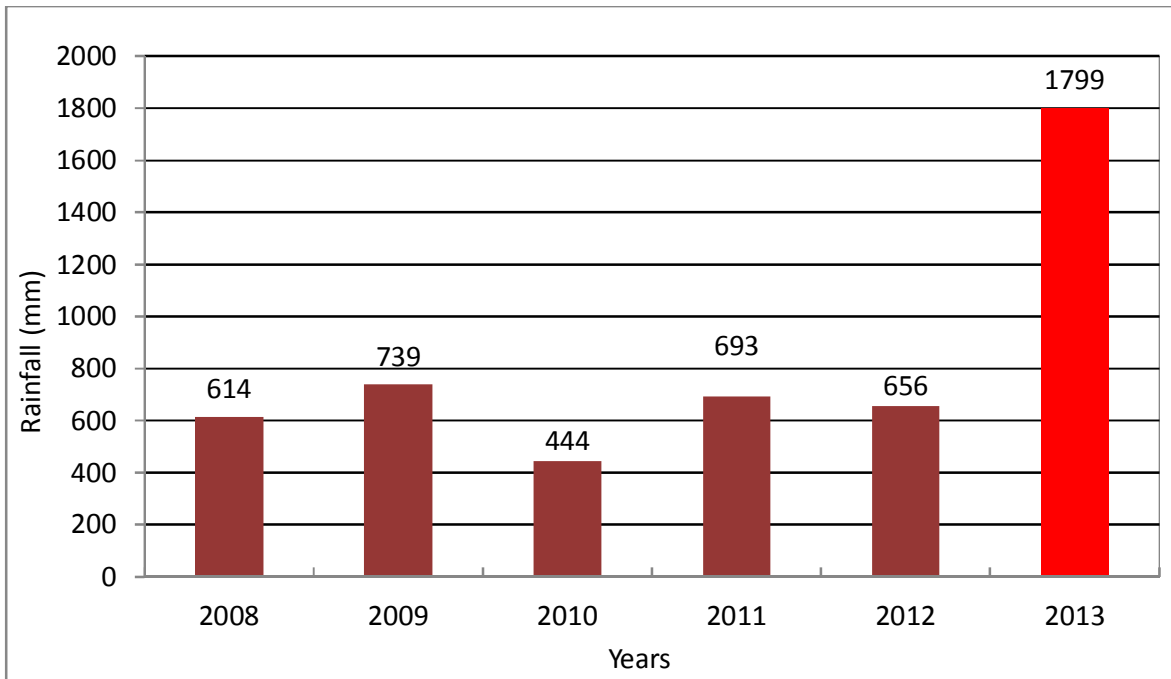


Figure 4: Rainfall from 1 June to 29 July 2013 - 2008 to 2013 (Data source: IMD)

Note the amount of rainfall received in 2013 as compared to the previous years

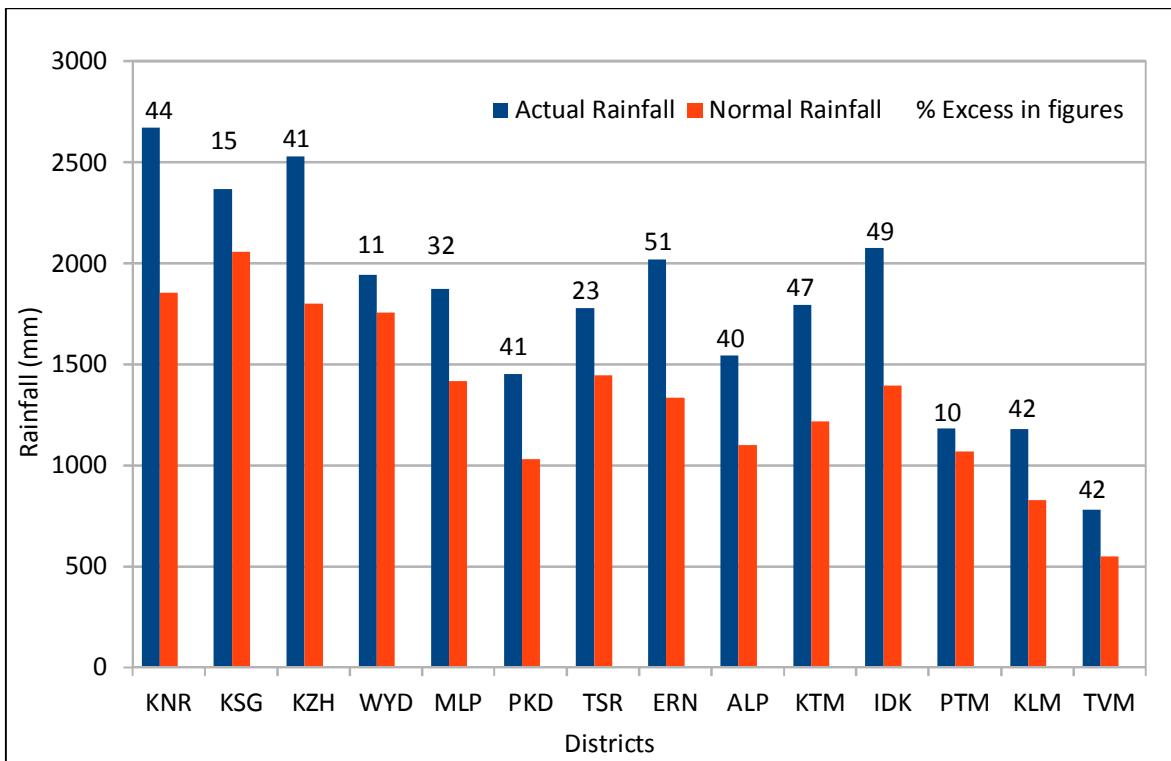


Figure 5: District wise actual and expected (normal) rainfall of 2013 (1 June to 29 July) (Data source: IMD)

Note the amount of excess rainfall received in all districts

Table 2 compiles the actual and expected (normal) rainfall received from 1st June 2013 to 1 July 2013 in the rainfall stations monitored by IMD. Figure 7 shows the percentage of excess

rainfall across the State as derived from the stations monitored by IMD. It is evident from the available rainfall figures that the monsoon rainfall has saturated the soil column of Kerala within the 1st month of monsoon rainfall. Considering the current trend, if the rainfall intensity and amount remains high in the coming months of the South West Monsoon, the figures of natural calamity is to increase significantly.

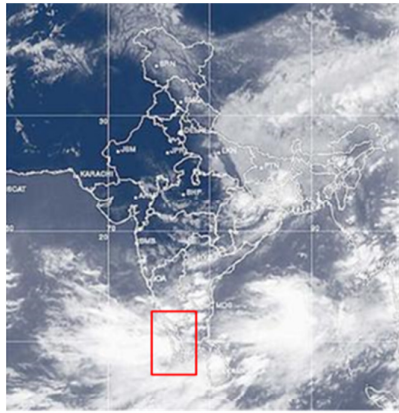
**Table 2: Actual and expected rainfall (mm) in the 67 rain gauges across Kerala – 1 June to 29 July 2013
(Source: IMD)**

ID	Station	District	Normal RF	Actual RF	Departure %
1	Kannur	Kannur	2821.3	1855	52.1
2	Taliparamba	Kannur	2723.6	1855	46.8
3	Thalasserry	Kannur	2127	1855	14.7
4	Irikkur	Kannur	3025	1855	63.1
5	Hosdurg	Kasaragod	2490.2	2056	21.1
6	Kudulu	Kasaragod	2241.1	2056	9
7	Kozhikode	Kozhikode	2002.5	1799	11.3
8	Vadakara	Kozhikode	3414	1799	89.8
9	Quilandy	Kozhikode	2172	1799	20.7
10	Mananthavady	Wayanad	2220	1756	26.4
11	Vythiri	Wayanad	3052.7	1756	73.8
12	Ambalavayal	Wayanad	1238	1756	-29.5
13	Kuppady	Wayanad	1258	1756	-28.4
14	Nilambur	Malappuram	1566.2	1416	10.6
15	Manjeri	Malappuram	1763	1416	24.5
16	Perinthalmanna	Malappuram	1849.4	1416	30.6
17	Ponnani	Malappuram	1996.7	1416	41
18	Angadippuram	Malappuram	1901	1416	34.3
19	Karipur AP	Malappuram	2150	1416	51.9
20	Palakkad	Palakkad	1337.4	1028	30.1
21	Mannarkad	Palakkad	1327.8	1028	29.2
22	Ottappalam	Palakkad	2107.4	1028	105
23	Alathur	Palakkad	1438.7	1028	40
24	Chittur	Palakkad	802.6	1028	-21.9
25	Kollengode	Palakkad	1436.9	1028	39.8
26	Pattambi	Palakkad	1817.4	1028	76.8
27	Thrithala	Palakkad	1606.5	1028	56.3
28	Parambikulam	Palakkad	1184	1028	15.2

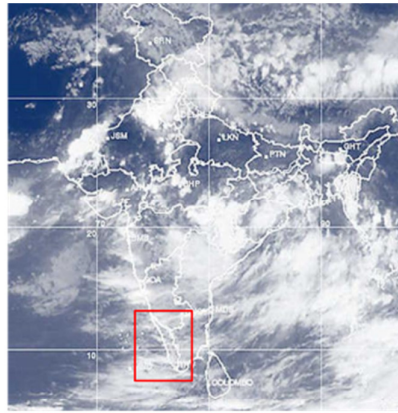
29	Thrissur	Thrissur	2038	1447	40.9
30	Kodungallur	Thrissur	1770.2	1447	22.3
31	Irinjalakuda	Thrissur	1661.3	1447	14.8
32	Vadakkancherry	Thrissur	1623.6	1447	12.2
33	Kunnamkulam	Thrissur	1768	1447	22.2
34	Chalakydy	Thrissur	1922.6	1447	32.9
35	Enamackel	Thrissur	1444.8	1447	-0.2
36	Vellanikkara	Thrissur	1980.2	1447	36.8
37	Kochi AP	Ernakulam	1971.6	1335	47.7
38	Aluva	Ernakulam	1768.8	1335	32.5
39	Piravom	Ernakulam	2997.8	1335	124.6
40	Perumbavur	Ernakulam	1692	1335	26.7
41	CIAL Kochi	Ernakulam	1851.7	1335	38.7
42	Ernakulam South	Ernakulam	1746.7	1335	36.6
43	Alappuzha	Alappuzha	1428.8	1102	58.5
44	Kayamkulam	Alappuzha	1502.8	1102	29.7
45	Mavelikkara	Alappuzha	1719.2	1102	36.4
46	Cherthala	Alappuzha	1653.2	1102	56
47	Mancompu	Alappuzha	1526.9	1102	50
48	Haripad	Alappuzha	1469.3	1102	38.6
49	Chengannur	Alappuzha	923.5	1102	33.3
50	Kottayam	Kottayam	1653.4	1217	35.9
51	Vaikom	Kottayam	2645.7	1217	117.4
52	Kumarakom	Kottayam	1320.1	1217	8.5
53	Kozha	Kottayam	1979.2	1217	62.6
54	Kanjirappally	Kottayam	1367.4	1271	12.4
55	Peermade	Idukki	2457	1394	76.3
56	Thodupuzha	Idukki	1697.2	1394	21.8
57	Munnar	Idukki	2696.2	1394	93.4
58	Idukki	Idukki	2135.1	1394	53.2
59	Thiruvalla	Pathanamthitta	1128	1069	5.5
60	Kollam	Kollam	1208.8	828	46
61	Aryankavu	Kollam	1116.6	828	34.9
62	Punalur	Kollam	1206.8	828	45.7
63	Trv City	Thiruvananthapuram	741	551	34.5

64	Trv AP	Thiruvananthapruam	766.9	551	39.2
65	Nedumangad	Thiruvananthapruam	728.8	551	32.3
66	Neyyattinkara	Thiruvananthapruam	659	551	19.6
67	Varkala	Thiruvananthapruam	1004	551	82.2

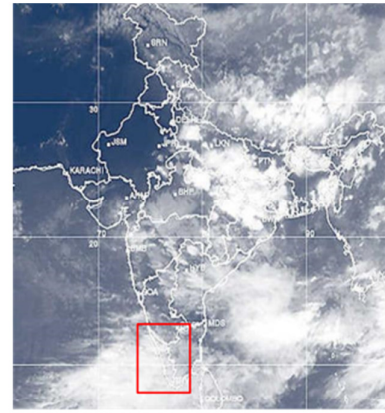
This excessive rainfall has caused significant damage to life and property, the details of which is given in the subsequent chapters.



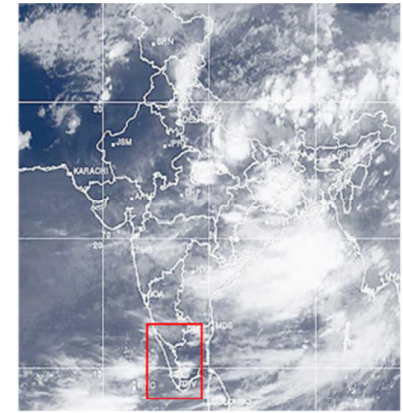
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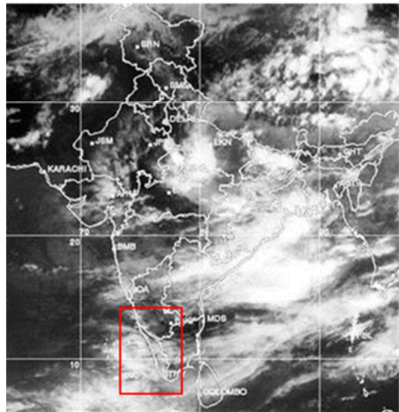
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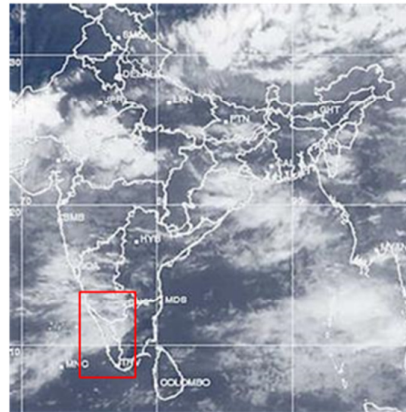
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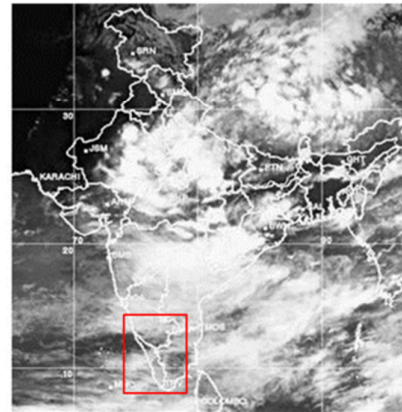
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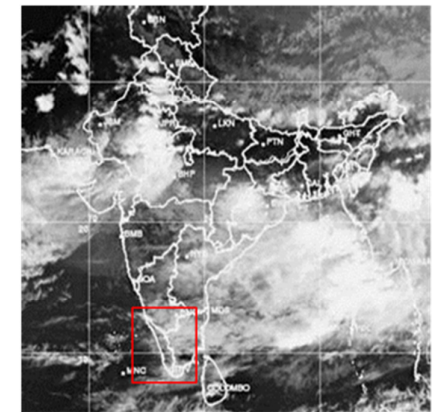
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Figure 6: INSAT pictures from 1 June 29 July 2013 (Source: IMD)
Note that Kerala was covered with intense cloud all through from June and July

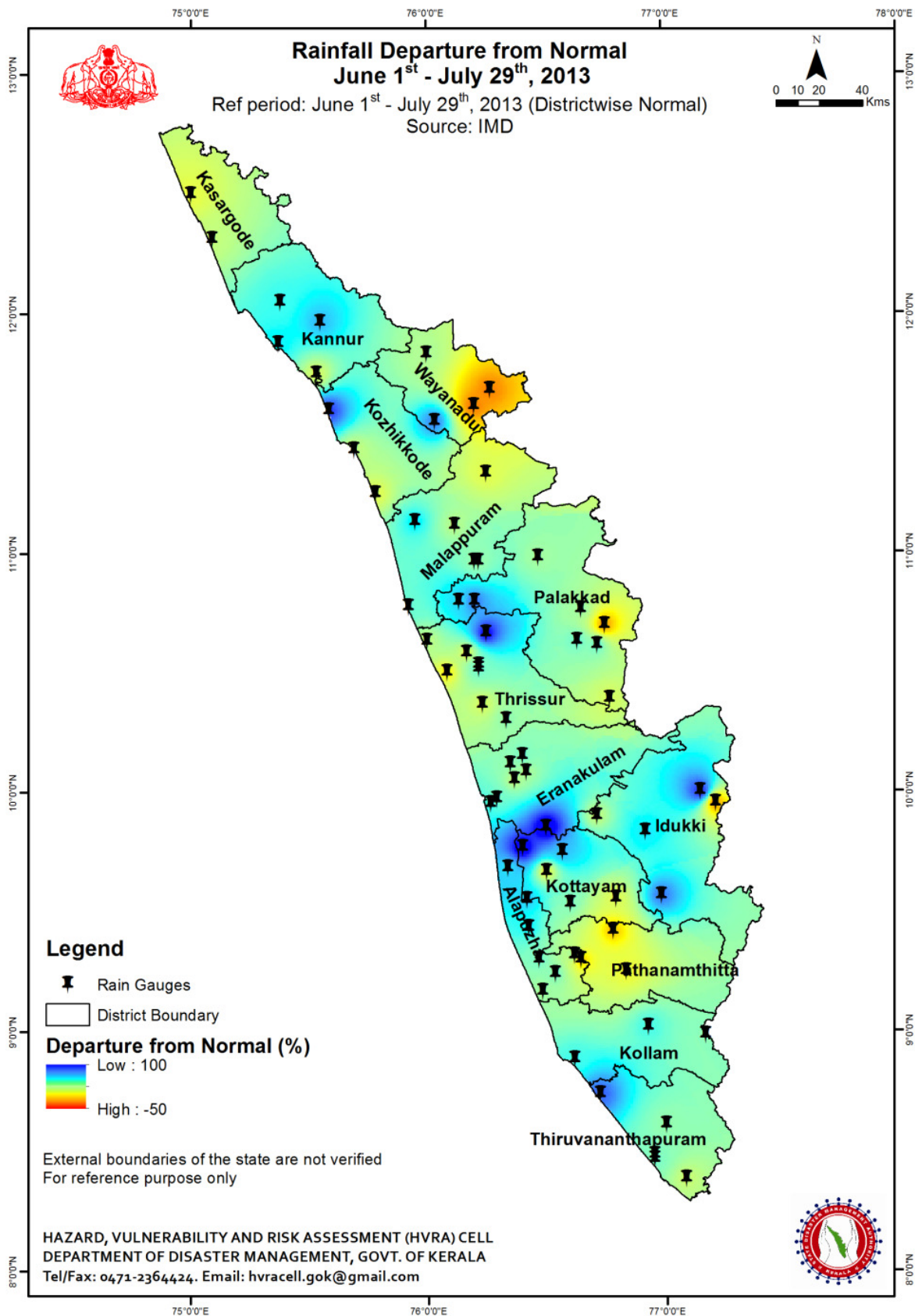


Figure 7: Rainfall departure from normal, 1 June 29 July 2013 (Source: IMD)

2. Losses

2.1. Human Fatalities

In the heavy rain and landslides that hit the State, 145 lives were lost till 29 July 2013. Table 3 shows the district wise human fatalities and injuries reported. Detailed list of individuals and cause of death is provided in Annexure 1.

Table 3: District wise human fatalities and injuries

District	Fatalities		Injuries		Total
	No	Amount	No	Amount	
Thiruvananthapuram	7	10,50,000	0	0	1050000
Kollam	1	1,50,000	0	0	150000
Pathanamthitta	10	15,00,000	1	9300	1509300
Alappuzha	19	28,50,000	1	9300	2859300
Kottayam	13	19,50,000	5	21700	1971700
Idukki	8	12,00,000	12	55,800	1255800
Ernakulam	13	19,50,000	0	0	1950000
Thrissur	19	28,50,000	29	2881000	5731000
Palakkad	9	13,50,000	4	24800	1374800
Malappuram	13	19,50,000	39	13,33,300	2083300
Kozhikode	9	13,50,000	1	3100	1353100
Wayanad	0	0	0	0	0
Kannur	13	19,50,000	5	34,100	1984100
Kasargode	11	16,50,000	4	12400	1662400
Total	145	2,17,50,000	101	31,84,800	2,49,34,800

2.2. Houses damages

A large number of houses were completely or severely damaged. Affected people were accommodated in relief camps. The actual loss to housing sector due to this is inestimable. District wise details of number of houses damaged (fully and partially) with estimated loss is given in Table 4, 5 and 6:

Table 4: District wise house damage estimates – Pucca

District	Pucca houses						Total
	FD		SD		PD		
	No	Amount	No	Amount	No	Amount	
Thiruvananthapuram	51	35,70,000	662	41,70,600	1244	23,63,600	1,01,04,200
Kollam	25	17,50,000	409	25,76,700	508	9,65,200	52,91,000
Pathanamthitta	11	7,70,000	417	26,27,100	78	1,48,200	35,45,300
Alappuzha	62	62,00,000	6213	2,17,48,000	1455	27,64,500	3,07,12,500
Kottayam	15	10,50,000	534	33,64,200	485	9,21,500	53,35,700
Idukki	33	23,10,000	366	23,05,800	53	1,00,700	47,16,500

Ernakulam	31	21,70,000	365	22,99,500	375	7,12,500	51,82,000
Thrissur	45	31,50,000	132	8,31,600	635	12,06,500	51,88,100
Palakkad	18	12,60,000	220	13,85,300	30	56,500	27,01,800
Malappuram	39	27,30,000	264	16,63,200	202	3,83,800	47,77,000
Kozhikode	32	22,40,000	304	19,15,200	195	3,70,500	45,25,700
Wayanad	19	13,30,000	572	36,05,100	494	9,38,600	58,73,700
Kannur	27	18,90,000	836	52,66,800	244	4,63,600	76,20,400
Kasargode	48	33,60,000	159	10,01,700	601	11,41,900	55,03,600
Total	456	3,37,80,000	11453	5,47,60,800	6599	1,25,37,600	10,10,78,400

Table 5: District wise house damage estimates – Kutcha

District	Kutcha						Total loss
	FD		SD		PD		
Thiruvananthapuram	594	89,10,000	105	3,36,000	101	1,91,900	94,37,900
Kollam	28	4,20,000	429	13,72,800	237	4,50,300	22,43,100
Pathanamthitta	2	30,000	4	12,800	73	1,38,700	1,81,500
Alappuzha	7	1,05,000	298	9,53,600	921	17,49,900	28,08,500
Kottayam	Nil	Nil	181	5,79,200	Nil	Nil	5,79,200
Idukki	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Ernakulam	9	1,35,000	19	60,800	17	32,300	2,28,100
Thrissur	1	15,000	Nil	Nil	65	1,23,500	1,38,500
Palakkad	Nil	Nil	2	6,400	115	2,18,500	2,24,900
Malappuram	Nil	Nil	20	64,000	34	64,600	1,28,600
Kozhikode	NIL	NIL	185	5,92,000	35	66,500	6,58,500
Wayanad	37	5,55,000	131	4,18,800	111	2,11,100	11,84,900
Kannur	Nil	NIL	7	22,400	5	9,500	31,900
Kasargode	3	45,000	2	6,400	7	13,300	64700
Total	681	1,02,15,000	1383	44,25,200	1721	32,70,100	1,79,10,300

Table 6: District wise house damage estimates – Huts

District	Number	Amount
Thiruvananthapuram	15	37,500
Kollam	20	50,000
Pathanamthitta	1	2,500
Alappuzha	175	4,37,500
Kottayam	0	0
Idukki	0	0
Ernakulam	0	0
Thrissur	0	0
Palakkad	0	0
Malappuram	0	0
Kozhikode	0	0
Wayanad	52	1,30,000

Kannur	0	0
Kasargode	1	0
Total	264	6,60,000

Table 7: District wise house damage estimates – Total

District	Total loss
Thiruvananthapuram	1,95,79,600
Kollam	75,85,000
Pathanamthitta	37,29,300
Alappuzha	3,39,08,500
Kottayam	59,14,900
Idukki	47,16,500
Ernakulam	54,10,100
Thrissur	53,26,600
Palakkad	29,26,700
Malappuram	48,48,000
Kozhikode	51,84,200
Wayanad	71,88,600
Kannur	76,52,300
Kasargode	56,28,400
Total	11,95,98,700

2.3. Agriculture damages

The floods, windfall and landslides have caused severe damages to crops in the affected areas. Rivers were in-spate and it breached banks at many places, inundating low-lying areas resulting in crop damage, apart from that caused by the landslides. The details of district wise crop losses are given in Table 8:

Table 8: District wise agricultural damages (Details provides as Annexure 3)

District	>50% crop lossextent (ha)	Loss (Rs.) as per norms
Thiruvananthapuram	1371.49	86,52,300
Kollam	621.27	36,32,200
Pathanamthitta	9368.74	5,38,18,300
Alappuzha	1499.24	99,17,700
Kottayam	4892.95	2,94,17,900
Idukki	864.83	58,07,100
Ernakulam	2706.18	1,53,70,800
Thrissur	2745.24	1,65,58,300
Palakkad	4323.34	2,60,90,200
Malappuram	1365.69	85,45,600
Kozhikode	1963.34	1,28,30,000
Wayanad	3432.94	1,89,96,600

Kannur	1567.22	95,62,900
Kasargode	981.5	65,52,300
Total	37704	22,57,52,200

2.4. Damages to fisheries

The floods have caused severe damages to the inland fisheries and the coastal fisheries sector of the state. The details of district wise damages are given in Table 9:

Table 9: District wise damages to fisheries sector (Details in Annexure 2)

District	Fully damaged boats	Partially damaged boats	Fully damaged nets	Partially damaged nets
Thiruvananthapuram	0	6000	0	0
Kollam	35000	9000	0	4500
Pathanamthitta	0	0	0	0
Alappuzha	7000	0	11100	19500
Kottayam	0	0	0	0
Idukki	0	0	0	0
Ernakulam	0	0	0	1500
Thrissur	0	9000	1850	1500
Palakkad	0	0	0	0
Malappuram	14000	9000	0	0
Kozhikode	14000	15000	0	0
Wayanad	0	0	0	0
Kannur	14000	3000	3700	6000
Kasargode	0	6000	0	3000
Total	84,000	57000	16650	36000
Grand total: 1,93,650				

2.5. Damages to animal husbandry and dairy sector

The floods have caused severe damages to animal husbandry and dairy development sector of the state. The details of item wise damages are given in Table 10 and annexure.

Table 10: District wise damages to animal husbandry and dairy development sector (Details in Annexure 4)

Item	Cost (Rs)
Animal & poultry fatality	1,24,02,269
Totally damaged cattle sheds	10,87,500
Provision for feed and concentrate	2,13,06,400
Additional cost of medicines (Essentiality certificate annexure as Annexure 9)	61,35,423
Transportation of fodder	16,98,000
Total	4,26,29,592

Relief and recovery

2.1. Relief camps and water supply

Several camps were opened in all except 3 districts during the period accommodating around 2,50,000 people including women and children detail of which is given in Table 11. As flood waters inundated toilet soak pits and brackish water entered open wells, water supply had to be undertaken in many districts details of which is given in Table 12.

Table 11: District wise cost of relief camps

District	No. of Camps	Cost (Rs.)
Thiruvananthapuram	9	15,69,400
Kollam	2	64,640
Pathanamthitta	34	30,22,000
Alappuzha	458	34,59,46,625
Kottayam	105	90,67,550
Idukki	5	5,55,500
Ernakulam	22	32,77,628
Thrissur	39	16,74,400
Palakkad	1	52,291
Malappuram	1	10,800
Kozhikode	6	2,07,240
Wayanad	67	24,58,185
Kannur	2	64,255
Kasargode		54,560
Total	751	36,80,25,074

Table 12: District wise cost of water supply (Details in Annexure 5)

District	No. of trips	Cost (Rs.)
Thiruvananthapuram	20	60000
Kollam	10	26000
Pathanamthitta	60	210000
Alappuzha	575	2357500
Kottayam	200	500000
Idukki	0	0
Ernakulam	0	0
Thrissur	178	427200
Palakkad	0	0
Malappuram	0	0
Kozhikode	18	50400
Wayanad	50	125000

Kannur	0	0
Kasargode	0	0
Total	1111	37,56,100

2.2. De-silting of inland fish farms

Heavy floods resulted in siltation of fish farms thus creating a havoc of the inland fisheries sector of the state. Table 13 shows the area affected and the cost incurred for de-silting the agricultural land area.

Table 13: District wise cost of de-silting of fishe farms (@Rs. 8100/ha) – (Details in Annexure 3A)

District	Area (ha)	Cost (Rs.)
Thiruvananthapuram	0	0
Kollam	1310	10611000
Pathanamthitta	2504	20282400
Alappuzha	1500	12150000
Kottayam	1038	8407800
Idukki	1000	8100000
Ernakulam	85	688500
Thrissur	130	1053000
Palakkad	227	1838700
Malappuram	84	680400
Kozhikode	145	1174500
Wayanad	129	1044900
Kannur	14	113400
Kasargode	247	2000700
Total	8413	6,81,45,300

2.3. Debris clearance in public areas and households

The events caused extensive debris accumulation in households and public area. Table 14 shows the first estimate of the foot print area to be cleared of debris accumulation from the flood and landslide events.

Table 14: District wise cost of debris clearance from households and public area

District	Area (ha)	Cost (Rs.)
Thiruvananthapuram	925	29,08,50,000
Kollam	0	0
Pathanamthitta	0.05	5,000
Alappuzha	350	74,23,00,000
Kottayam	0	0
Idukki	38.06	4,04,62,000

Ernakulam	46.2	2,45,757
Thrissur	2.8	39,00,000
Palakkad	200	15,800
Malappuram	0	0
Kozhikode	0	0
Wayanad	0	0
Kannur	580	9,05,94,500
Kasargode	0	0
Total	2142.11	116,83,73,057

2.4. Debris clearance, sandbag protection and loss of agricultural land

Debris was accumulated over most of the affected area; earth removers and manual labour was used for the removal of the same. Table 15 shows the area affected and the cost incurred for debris clearance from the affected agricultural land area. It may be noted that the floods hit hard at the beginning of the cropping season and a lot of crop seedling were inundated. In order to prevent inundation temporary reinforcement had to be undertaken using sand bags for about 122 km polder walls details of which is given in Table 16. About 4084 ha of land was lost due to change of course of rivers and landslides details of which is given in Table 17.

Table 15: District wise cost of debris clearance from agricultural lands (Certified in Annexure 3A)

District	Area (ha)	Cost (Rs.)
Thiruvananthapuram	0	0
Kollam	0	0
Pathanamthitta	0	0
Alappuzha	4000	39,98,25,000
Kottayam	500	50,04,000
Idukki	19.03	20,23,1000
Ernakulam	0	0
Thrissur	3.75	97,50,000
Palakkad	0	0
Malappuram	0	0
Kozhikode	12.5	2,50,44,500
Wayanad	0	0
Kannur	0	0
Kasargode	0	0
Total	4535.28	45,98,54,500

Table 16: District wise cost of bund protection of agricultural lands using sand bags (Certified in Annexure 3A)

District	In kms	Cost (Rs.)
Thiruvananthapuram	0	0
Kollam	0	0
Pathanamthitta	92	87324590
Alappuzha	30	28475410
Kottayam	0	0
Idukki	0	0
Ernakulam	0	0
Thrissur	0	0
Palakkad	0	0
Malappuram	0	0
Kozhikode	0	0
Wayanad	0	0
Kannur	0	0
Kasargode	0	0
Total	122	11,58,00,000

Table 17: District wise cost of loss of substantial portion of agricultural lands (Certified in Annexure 3A)

District	Area (ha)	Cost (Rs.)
Thiruvananthapuram	0	0
Kollam	0	0
Pathanamthitta	0	0
Alappuzha	2062	51550000
Kottayam	1000	25000000
Idukki	22	550000
Ernakulam	0	0
Thrissur	1000	25000000
Palakkad	0	0
Malappuram	0	0
Kozhikode	0	0
Wayanad	0	0
Kannur	0	0
Kasargode	0	0
Total	4084	10,21,00,000

2.5. Draining of flood water

Severe flooding conditions prevailed in many parts of the State. Flood water draining using pump sets was required at many locations in Alappuzha and Thrissur districts. Table 18 shows the cost incurred for flood water draining.

Table 18: District wise cost of draining flood water

District	Number of pump sets operated (No. of days)	Cost (Rs.)
Thiruvananthapuram	0	0
Kollam	0	0
Pathanamthitta	0	0
Alappuzha	87 (12 days)	2,20,00,000
Kottayam	5 (5 days)	80,00,000
Idukki	0	0
Ernakulam	0	0
Thrissur	40 (10 days)	1,10,00,000
Palakkad	0	0
Malappuram	0	0
Kozhikode	0	0
Wayanad	0	0
Kannur	0	0
Kasargode	0	0
Total	132 (27 days)	4,10,00,000

2.6. Funeral and burial of the dead bodies

Ninety one individuals perished in the monsoon calamities in the State. Table 19 shows the cost incurred for the funeral and burial of the dead bodies.

Table 19: District wise cost of funeral and burial of dead bodies (Details in Annexure 1)

District	Fatalities	Cost (Rs.)
Thiruvananthapuram	7	70,000
Kollam	1	10,000
Pathanamthitta	10	1,00,000
Alappuzha	19	1,90,000
Kottayam	13	1,30,000
Idukki	8	80,000
Ernakulam	13	1,30,000
Thrissur	19	1,90,000
Palakkad	9	90,000
Malappuram	13	1,30,000
Kozhikode	9	90,000
Wayanad	0	0
Kannur	13	1,30,000
Kasargode	11	1,10,000
Total	145	14,50,000

2.7. Search and rescue

As the State's machinery was not sufficient to cope with the situation, central forces such as NDRF and Coast Guard, and other voluntary forces had to be pressed into service in addition to the Fire and Rescue Services and the Kerala Police. Table 20 shows the cost incurred for search and rescue in the affected area.

Table 20: Cost (in Rs.) incurred for search and rescue measures

District	Cost (Rs.)	Dates of service
Thiruvananthapuram	45,000	NDRF –17 to 19 June 2013
Kollam	24,883	
Pathanamthitta	0	
Alappuzha	5,30,000	SDRF, Fire & Rescue – 27 to 30 June 2013
Kottayam	1,98,383	
Idukki	2,70,000	
Ernakulam	39,528	
Thrissur	0	
Palakkad	0	
Malappuram	13,422	Coast Guard - 27 to 30 June 2013
Kozhikode	0	
Wayanad	4,68,470	SDRF, Fire & Rescue – 27 to 30 June 2013
Kannur	1,00,000	Navy – 26 to 28 June 2013 Coast Guard - 27 to 30 June 2013
Kasargode	0	
Total	16,89,686	

2.8. Repair/restoration of damaged infrastructure

Losses were incurred to roads, irrigation canals, water supply schemes and community owned open wells. Most of the village roads had to be restored to motor-able condition. The breach of canals resulted in flooding of several localities and hence the bunds had to be restored and reinforced. Open wells are the only source of drinking water in many of the rural hilly regions of the state and hence, those wells of which the walls collapsed and got silted had to be restored with immediate effect. Table 21 shows the district wise details of irrigation sector damages and water supply scheme damages (Details are provided as annexure). Table 22 shows the district wise details of power sector claims (details are provided as annexure). Table 23 shows the length of roads, number of damaged water tanks and the number of open wells that had to be repaired in each district.

Table 21: Cost (in Rs.) incurred/committed for repair of irrigation (Details in Annexure 6) and water supply schemes (Details in Annexure 7)

District	Irrigation sector - Cost (Rs.)	Water Supply sector – Cost (Rs.)
Thiruvananthapuram	93,20,000	93,72,65,000
Kollam	10,43,00,000	1,25,85,000
Pathanamthitta	5,68,00,000	0
Alappuzha	5,00,00,000	0
Kottayam	1,25,00,000	0
Idukki	0	1,27,22,000
Ernakulam	2,21,39,000	0
Thrissur	10,71,96,000	0
Palakkad	46,00,000	0
Malappuram	13,03,00,000	0
Kozhikode	25,02,00,000	0
Wayanad	0	5,04,14,000
Kannur	12,11,00,000	0
Kasargode	14,35,00,000	0
Total	1,01,19,55,000	1,01,29,86,000

Table 22: Cost (in Rs.) incurred/committed for repair of power sector (Details in Annexure 8)

District	Cost (Rs)
Thiruvananthapuram	285325
Kollam	139668
Pathanamthitta	489290
Alappuzha	6915600
Kottayam	2198980
Idukki	684328
Ernakulam	756196
Thrissur	562062
Palakkad	105259.5
Malappuram	116785.5
Kozhikode	286568
Wayanad	1800768
Kannur	903322
Kasargode	1173279
Total	1,64,17,431

Table 23: Cost incurred for immediate restoration of infrastructure

District	Number of open wells	Cost (Rs.)	No. of damaged pumps	Cost (Rs)	No. of damaged water supply tanks	Cost (Rs)	Length of damaged village roads (Km)	Cost (Rs)	Total
Tvm	10	1,50,000	2	4,000	5	2,50,000	10	50,00,000	5404000
Klm	8	1,20,000	9	18,000	13	6,50,000	2	10,00,000	1788000
Ptn	10	1,50,000	9	18,000	6	3,00,000	5	25,00,000	2968000
Alp	200	30,00,000	160	3,20,000	25	12,50,000	80	4,00,00,000	44570000
Ktm	80	12,00,000	60	1,20,000	0	0	54	2,70,00,000	28320000
Idu	30	4,50,000	39	78,000	8	4,00,000	130	6,50,00,000	65928000
Ekm	10	1,50,000	3	6,000	0	0	50	2,50,00,000	25156000
Tsr	8	1,20,000	6	12,000	3	1,50,000	70	3,50,00,000	35282000
Pkd	0	0	0	0	0	0	0	0	0
Mal	0	0	0	0	0	0	0	0	0
Koz	15	2,25,000	12	24,000	0	0	40	2,00,00,000	20249000
Way	1	15,000	0	0	0	0	28	1,40,00,000	14015000
Kan	8	1,20,000	6	12,000	10	5,00,000	15	75,00,000	8132000
Ksg	19	2,85,000	15	30,000	0	0	10	50,00,000	5315000
Total	399	59,85,000	321	6,42,000	70	35,00,000	494	24,70,00,000	25,71,27,000

Abstract

MAJOR LOSS AS PER ESTIMATED LOSS & CENTRAL NORMS DUE TO MONSOON CALAMITY FROM 1 JUNE TO 31 JULY 2013			
Code No.	Item	Estimated Loss (lakhs)	Loss as per CRF norms (lakhs)
1	2	3	4
1	Gratuitous Relief		
a	Ex-gratia payment to families of deceased persons (145 people) – Table 3	2,17,50,000	2,17,50,000
b	Ex-gratia payment for loss of a limb or eyes	0	0
c.i	Grievous injury requiring hospitalization for more than a week (101 people) – Table 3	0	31,84,800
c.ii	Grievous injury requiring hospitalization for less than a week	0	0
d	Clothing and Utensils	0	0
e	Gratuitous Relief for families in dire need (Free Ration)	0	0
2	Search and Rescue (Navy, NDRF, Coast Guard, SDRF & Fire and Rescue) – Table 20	16,89,686	16,89,686
3	Relief Measures		
a	Provision for temporary accommodation, food, clothing, medical care etc. for people affected/evacuated and sheltered in relief camps (751 camps) – Table 11	36,80,25,074	36,80,25,074
b	Air dropping	0	0
c	Provision of emergency supply of drinking water in rural areas and urban areas – Table 12	37,56,100	37,56,100
4	Clearance of affected areas		
a	Clearance of debris in households and public area – Table 14	200,80,00,000	116,83,73,057
b	Draining of flood waters in affected areas (132 pumps; 27 days; actual figures) – Table 18	9,00,00,000	4,10,00,000
c	Funeral and burial of dead bodies (145 fatalities) – Table 3	14,50,000	14,50,000
5	Agriculture		
i	Assistance to small and marginal farmers		
A	Assistance for land and other loss		
a	Removal of debris on agricultural land (4535.28 ha) – Table 15	75,00,00,000	45,98,54,500
b	De-silting/restoration/repair of fish farms – Table 13	18,00,00,000	6,81,45,300
c	Loss of substantial portion of land caused by landslide & change of course of rivers (4084 ha) – Table 17	25,00,00,000	10,21,00,000

d	Repair of bunds of agricultural land (122 kms) – Table 16	11,58,00,000	11,58,00,000
B	Input subsidy (where crop loss is 50% and above)		
a	For agricultural crops – rain-fed, irrigated and perennial (37704 ha) – Table 8	180,00,00,000	22,57,52,200
b	Plantation crops	Nil	
c	Sericulture		
ii	Input subsidy to farmers other than small & marginal farmers	Nil	
6	Animal husbandry & dairy		
i	Replacement of milch animals & poultry – Table 10	6,50,00,000	1,24,02,269
ii	Provision of fodder/feed concentrate in cattle camps – Table 10	2,13,06,400	2,13,06,400
iii	Water Supply in cattle camp	Nil	
iv	Additional cost of Medicines and Vaccines (Essentiality certificate included) – Table 10	61,35,423	61,35,423
v	Transport of fodder to cattle outside cattle camps – Table 10	16,98,000	16,98,000
7	Fishery		
i	Assistance to Fishermen for repair/replacement of boats, net – damaged or lost	1,20,82,500	1,93,650
ii	Input subsidy for fish seed farm	Nil	
8	Handicrafts/handloom - Assistance to artisans		
i	For replacement of damaged tools/ equipment	Nil	
ii	For loss of raw material/goods in process/finished goods		
9	Housing		
a	Fully damaged/Destroyed houses – Tables 4, 5, 6 & 7		
i	Pucca Houses (456 houses)	30,46,10,000	3,37,80,000
ii	Kutcha Houses (681 houses)	12,22,07,000	1,02,15,000
b	Severely Damaged Houses		
i	Pucca Houses (11453 houses)	45,15,35,000	5,47,60,800
ii	Kutcha Houses (1383 houses)	2,90,98,000	44,25,200
c	Partially damaged houses		
i	Pucca Houses (6599 houses)	3,30,00,000	1,25,37,600
ii	Kutcha Houses (1721 houses)	1,10,00,000	32,70,100
d	Damaged/Destroyed huts (264 houses)		
e	Cattle shed adjoining house (870) – Table 10		
		45,60,000	10,87,500
10	Infrastructure - Repair/restoration (of immediate nature) of damaged infrastructure		
	i) Road & bridges (494 km) – Table 23	24,70,00,000	24,70,00,000
	ii) Drinking water supply works (Kerala Water Authority) – Table 21	101,29,86,000	101,29,86,000

	iii) Irrigation (Dept. of Irrigation) – Table 21	101,19,55,000	101,19,55,000
	iv) Power (KSEB) – Table 22	1,64,17,431	1,64,17,431
	v) Schools	Nil	
	vi) Primary health centres		
	vii) Community assets owned by panchayaths (pumps – 321; open wells – 399; water supply tanks – 70) – Table 23	5,00,35,000	1,01,27,000
11	Procurement	0	0
Grand Total		899,43,96,614	503,86,53,290
Estimated loss in real terms: 899.4396614 crs			
Estimated loss as per CRF Norms: 503.8653290 crs			

T.J Mathew IAS
State Relief Commissioner

ANNEXURE 1: FATALITIES REPORTED FROM 1st JUNE 2013 to 28th JULY 2013 IN KERALA DUE TO MONSOON CALAMITY			
SI No.	Name & Age	Address	Cause of Death
1	2	3	4
THIRUVANANTHAPURAM			
1	K.G. Gopalakrishnann Nair	K G Gopalakrishnann Nair, Muraleebhavanam, Thuruvikkal, Cheruvikkal village	Uprooting of tree due to heavy rain and wind
2	V.Vijayalekshmi	V Vijayalekshmi, Kattakkal puthen Veedu, Kezharannoor, Karamana	Drowned
3	Kannan	Kannan, Padassey Kattakkal Panayil veedu, Karamana	Heavy rain and wind due to snapping electric line
4	Harikrishnan	Harikrishnan, TC 42/1230, Muttathara	Drowned
5	Soumya	Soumya, Koviyoor Adikkalam Arun Niovas, Vellarada	Uprdooting of tree due to heavy rain and wind
6	Johny	Johny, Kalliyoor village	Collapsing of house due to heavy rain and wind
7	Maniyan	Maniyan, Kanjirampara Colony, Sasthamangalam	Uprooting of tree due to heavy rain and wind
KOLLAM			
1	Kuttan Pillai (72 Years)	Mohanavilasam,Mulavoorkonam,Karipra,Kottarakkara	Drowned
PANTHANAMTHITTA			
1	Aswin santhosh	S/o Santhosh Kumar, Pattukulathil (H), Edasserimala, Aranmula	Heavy rainfall
2	Philip(86 Years)	Kocheril (H), Kadapra, Thiruvalla	Drowned
3	Raj Mohan(15 Years)	S/o Mohanan, Vadakkethazhchayil, Kuttoor, Thiruvalla	Drowned
4	Kunjipennu(94 Years)	Muppikattil, Vengal Alamthuruthy, Kavumbhaom	Drowned
5	Samuel(82 Years)	Kozhilmannil Mepral, Peringara	Deceased due to house damage
6	Linus Maria	D/o Pious Davasya, Moovanam Parampil, Thiruvalla, Kuttapuzha	Uprooting of tree due to heavy rain and wind
7	Silvia(4 Years)	Kalavallil, Kadakkad, Kurampala	Drowned
8	Lekshmi(64 Years)	Kaduvamoola (H) Padam, Kalanjoor	Drowned
9	Kamalan(48 Years)	Remya Bhavan, Mudiyoorkonam, Pandalam	Drowned
10	Sreenand(2 Years)	S/o Rajesh Purushothaman, Variyathu, Methramal, Kavumbhagom	Drowned
ALAPUZHA			

1	Suraj Krishna	Sruthy Bhavan, Kalavancode	Drowned
2	Chellappan	Kandakkarikkalam, Ezhupunna south Po, Kodamthuruth	Drowned
3	Ani	Peedikapparambil, Kadakkarappalli	Drowned
4	Devayani	Kuzhichira, Kaithavana, Pazhaveedu Po	Drowned
5	Joseph Antony	Vallikkunnam veedu, Muttar Village	Drowned
6	Pradeep	Panachiparambu, Kuttamangalam PO, Kainakary	Drowned
7	Raghavan	Malu Nivas, Kunnumma West, Kavalam PO	Drowned
8	Kunjumon	Thottukadavil veedu, pallathuruthy Muri, Kainakary	Drowned
9	Krishnan	Erumathara, anaparambal North, Thalavady	Drowned
10	Umman	Kottappurathu, Thriperumathura	Drowned
11	ShyamKumar	Kottasseriveettil, chunakkara	Drowned
12	Sasi	Alappuzhakal, Engiayani PO	Drowned
13	Kochu Kunju	Payyanpalliveedu, vettiyar	Drowned
14	Soman Pillai	Soumya Bhavanam, Thekkekara	Drowned
15	Mohanan	Vairamputhuval, triperumathura	Drowned
16	Sanjay	Ennambil, Karuvatta	Drowned
17	Anil Kumar	Thikkagattatu, Arattupuzha	Drowned
18	John (Baby Antony)	Valiyaparambil, Veeyapuram	Drowned
19	Thankappan	Puthupurackal, Cheruthana	Drowned
KOTTAYAM			
1	Vijayan(58 Years)	Vanaja Bhavan,Nerekadavu	Drowned
2	Biju(38 Years)	Kannoyhu,Kattachira,Kidangoor,	Drowned
3	Babu(49 Years)	Vattakattu(H),KarippaBhagom,Arppookkara	Drowned
4	Sunny,(54 Years)	KonthambathilThiruvarpvu Village	Drowned
5	Drona(2 Years)	^{S/o} Nijo, Madappallykadu (H) Chengalam(s) Kottayam	Drowned
6	Joyes Jonson (17 Years)	S/o JohnsonKokkavayalil (H) Nedumkunnam,Kottaayam	Drowned
7	Shon Jose	Thanath (H)Manganam,Puthuppally(14 Years)(Died at Vakathanam)	Drowned
8	Sathyardhan(Thampi)(42 Years)	Ettuparayil,Nerekadavu	Drowned
9	Philip Mathew (Roy) (47 Years)	Murikkal Edamattom, Poovarany	Drowned

10	Thomas V.K	Thekkanadiyil ,Kunnappally,Peruva,Mulakulam,Vaikom Taluk	Drowned
11	Bilma(Unnimaya-16 Years)	D/o Reghunad(Babu),Mulavanthotty	Drowned
12	Anathu(14 Years)	S/o Sunil Puthuparambil,Parampuzha	Drowned
13	Bilma(Unnimaya-16 Years)	D/o Reghunad(Babu),Mulavanthotty	Drowned
IDUKKI			
1	Vasanthu	W/o Kannan,Parameedu,Parathodu	Deceased due to house collapse – heavy rainfall
2	Georgekutty	Thannikkal House,Vellaramkunnu P O,Kumily	Heavy rainfall - Wall Collapsed
3	Beena	D/o Thankappan, Puthuparambil,Pachadi koonthal	Drowned
4	Sanju	S/o Sabu,Pulinthanathu,Kallupalam,Chaduranganpara	Drowned
5	Annalakshmi	W/o Raja, Munnar Colony,Munnar New Colony P O	Drowned
6	Akash	S/o Rajan,Babu Nagar,Marayoor P O	Windfall - Electric post collapsed
7	Scariyakutty	S/o Iype,Aaranil House,Meenadam P O	Drowned
8	Ratheesh	S/o Kumaran,Thenganal,Memittom,Arakkulam	Drowned
ERANAKULAM			
1	Kamalsha(44 Years)	S/o Jumartsha Merjanubipur,Dakashim Kattamuri-2,Raina Nagar,Moorshidabad, West Bengal	Drowned
2	Kunjouseph(69 Years)	S/o Lonappan, madassery (H),Kalarkkuzhy,Mookkannoor P.O	Heavy rain and wind – snapping of electric line & electrocution
3	Yohannan (67 Years)	Arikkal,Manangathukara,Angamaly	Uprooting of tree due to heavy rain and wind
4	Nivideya (5 Years)	D/o Vijesh,Parakkaparambil,Karingalikkod,Manjapra	Drowned
5	Harikrishnan	S/O Shaji, Vellimattom (H),Okkal	Drowned
6	Anil	Madappuram (H0),Okkal	Drowned
7	Saju Devassy	Challiyil,Malayidomthuruthu	Drowned
8	Karthyayini	W/o Velayudan,Parappuzha (H),Enanalloor P.O.,Muvattupuzha,Ernakulam	Drowned
9	K.K. Krishnan	Anithazhathu (H),Anchalpetti,Muvattupuzha,Ernakulam	Drowned
10	saji (36 Years)	S/o Ramankutty, Vallimarayil, Vellimattom,Kuttamangalam	Windfall - Electric post collapsed

11	Binu	S/o Antony,Kotekudiyil,Ramallurkkara,Kothamangalam	Drowned
12	George(38 Years)	S/o Jacob,Tharayilmaliyakara,Amballor,Kanayannoor	Drowned
13	Suresh(44 Years)	s/o Purushan,Pulliparambil (H),amballoor, Mulamthuruthy	Drowned
TRISSUR			
1	Karthik (12 years))	Karthik, S/o. Sajeevan, Nottath House, Cherpu Post, West Perumbilissery, Chevoor	Drowned
2	Rajesh (30 years))	Karappully House, Koodapuzha, Kizhakke Chalakudy Village 680 307	Windfall - Electric post collapsed
3	Sabu (38 years)	Sabu, S/o. Jose, Arakkal House, Kunnathupeedika, Kuttoor Village	Drowned
4	Adhi John (08 years)	Adhi John, S/o. John, Eluvathingal House, Madappuram, Thottippal Village Thrissur 680 310	Drowned
5	Vijish(23 years)	Vijish, S/o. Madhavan, Machingal House, Padiyam Village	Drowned
6	Sanju(17 years)	Sanju, S/o. Subramanian, Edathara House, Pazhampuzha, Chittilappilly	Drowned
7	Sulaiman(50 years)	S/o. Hassainar, Thanneerkottayil, Chemmannur Post, Punnayurkulam 679 561	Drowned
8	Deepak(21 years)	S/o. Gopi, Kannanchery House,Venganellur,	Uprooting of tree due to heavy rain and wind
9	Vishnu(22 years)	S/o. Prakasan, Kuniyath House,Manalur	Drowned
10	Joseph(21 years)	S/o. Varghese, Chungath House, Koorkenchery	Drowned
11	Sreejith(17 years)	S/o. Raju, Velakkapady House,Chevoor	Drowned
12	Cletus(42 years)	S/o. Thomas, Kaitharath House,Puthenchira	Drowned
13	Pushkaran(48 years)	S/o. Narayanan, Cherkkara House, Parappookkara	Drowned
14	Abhilash(33 years)	Pallivalappil House, Njellur, Kallur	Drowned
15	Gopi(60 years)	Kanady House, Amballur, Mukundapuram Taluk	Windfall - Electric post collapsed
16	Noble(02 years)	S/o. Joji Markose, Kariyilathode Puthenpurakkal House, Manalithara, Talappilly Taluk	Drowned
17	Rajalakshmy(42 years)	W/o. Murali, Mangodu House, Pazhayannur, Talappilly Taluk	Drowned
18	Rakesh(18 years)	S/o. Murali, Mangodu House, Pazhayannur, Talappilly Taluk	Drowned
19	Aneesha(46 years)	D/o. Ayyappankutty, Valavara House, Puthenchira, Mukundapuram Taluk	Drowned

20	Sunil Kumar(38 Years)	Mariyamankovil Parambu, Thripalamunda, Parassery Post, Kongad II Village, Palakkad Taluk , Palakkad District	
PALAKKAD			
1	Sreejith	S/o Bhaskaran,Arumbil (H),Anikkode,Mathur-2,Alathur	Uprooting of tree due to heavy rain and wind
2	Adith	S/o Radhakrishnan,Paravani (H),kallukad,Kuthannur,Alathur	Drowned
3	Damodaran	S/o Balan,Santhinagar,Pulikkode,Kavassery,Alathur	Drowned
4	Biju Jose	S/o V.L.Jose,Vadasseril (H),Gomathy Estate,Chittilanchery,Palakkad	Drowned
5	Anoop James	S/o James,Vadakumpadam(H)	Drowned
6	Salmanual Haris(20 Years)	S/o Muhammed Ali,Palliyail(H),Kunnakatt,Mailapadam,Mannarkkad	Drowned
7	Krishnankutty(41 Years)	S/o Narayanan,Ezhuthachan,Kumbalakkodu,Elavancherry	Drowned
8	Arya(12 Years)	D/o of Radhakrishnan,Kollengottuparambil ,Kannannur,Kannadi	Drowned
9	Saseendran(54 Years)	S/o Sankaranarayanan,Plankkatt,Palayamkode,Olassery,Kodumbu	Drowned
MALAPPURAM			
1	V.T.Thomas (69 years)	Vellatteth House, Pallikkuth P O , Chungathara village, Nilambur Taluk	Drowned
2	Satheendran (24 years)	Madhurakkodan House, Chamapparamba, Moothedam P O, Edakkara village, Nilambur Taluk	Drowned
3	Shamil (3 ½ years)	S/o Subair, Chappangal House, Vengapparatha, Kavalamukkatta P O, Amarambalam village, Nilambur Taluk	Drowned
4	Hemalatha (60 years)	D/o Krishnan Nair, Thaliyangottu Kalarikkal House, Puthiyakalam, Amarambalam village, Nilambur Taluk	Drowned
5	Salahudheen (21 years)	S/o Alavudheen, NPM Residency Quarters, Koottilangadi P O, Koottilangadi village, Perinthalmanna Taluk	Uprooting of tree due to heavy rain and wind
6	Muhammed Jabir (5 years)	S/o Najeeb, Thavalengal House, Puzhakkattiri P O, Puzhakkattiri village, Perinthalmanna Taluk	Deceased due to house damage
7	Anas(5 years)	S/o Abdul Salam, Palamuttath house, Velimukku P O, Moonniyur village, Tirurangadi Taluk	Drowned
8	Ubaid (9 years)	S/o Mohammed Rafeeq, Thadathil House, Thazhechina, Tirurangadi P O, Tirurangadi village, Tirurangadi Taluk	Drowned
9	Mohammed Riyan (1	S/o Abdu Razak , Panikkolli House, Moochikkal , Anchachavidi P O,	Drowned

	½ years)	Vellayur Village, Nilambur Taluk	
10	Fathima Sadvana (3 ½ years)	D/o Shiyas, Parammal House, Kavummal Para, Mampuram P O, AR Nagar Village, Tirurangadi Taluk	Drowned
11	Subramanyan (50Years)	S/o Kunhipperavan ,Neduvancheri Parammal, Ponnundam village, Tirur Taluk	Drowned
12	Shibu (30 Years)	S/o Ammini , Kozhikkunnil House, Karuvalathumadu Kolony, Peruvallur Village, Tirurangadi Taluk	Drowned
13	Azad P Narayanan (15 Years)	S/o Vidyadharan , Sarovaram Avane, Kottakkal , Kottakkal village, Tirur Taluk	Drowned
KOZHIKODE			
1	Omchand	S/o Mintoop Chandran,Kottangal (H),Mampatta,Mukkam P O.	Drowned
2	Raghavan Nair	Kannattu (H),Edakkara P O.	Drowned
3	Muhammed Shafeeque	Abdul azeez,Madathil Meethan (H),Perumanna	Drowned
4	Jithesh	Puthiyaveettil (H),malaparamba P O.	Drowned
5	Aseeb Rahman	S/o Abdurahiman,Mayangottuchalil,REC P O	Drowned
6	Akhilesh	S/o Ashokan,Koomullumal (H),chekkonnummal,Narippatta	Drowned
7	Mani	W/o Pokkan,Puthiyottil,Thazhakuni,Vallyad P O.	Drowned
8	Prem kumar	Naduvilakandy (H),Kollam P O.,Koyilandy	Drowned
9	sajil	Chengottu (H),Kakkur,Kozhikode	Drowned
KANNUR			
1	Arpith	Nuchiyad Village, Taliparamba Taluk	Drowned
2	Narayanan K	Madayi Village, Kannur	Drowned
3	Gangadharan	Valiyannur Village, Kannur	Windfall - Bus shelter Collapsed
4	Rohith	Mokeri Village, Thalassery	Heavy rainfall - wall collapsed
5	Pious	Eruvessy, Taliparamba	Drowned
6	Rajan T	Malappattam, Taliparamba	Drowned
7	Shabeer Ali	Mattool, kannur	Drowned
8	Preman	Mavilayi, Kannur	Drowned
9	Parvathy	Koovery, Taliparamba	Drowned
10	Aneesh kumar	Vellad, Taliparamba	Uprooting of tree due to heavy rain and wind

11	Sreenand	Thillankeri, Thalassery	Drowned
12	Ramadasan P K	Kadambur, Thalassery	Drowned
13	Shijith	Muzhappilangad, Kannur	Drowned
KAZARGODU			
1	Sunilkumar K(27 Years)	S/o Kumaran, Adkathbail, Kelugudde, Kasaragod Village & Taluk-671121	Drowned
2	Sandra (13 Years)	D/o Narayanan, Poodamkallu colony, Bandadka Village-671541	Drowned
3	Asma (40 Years)	W/o Abdulkhader, Pallancode, Adoor post, Adoor village, Kasaragod Taluk	Drowned
4	Mubeen (13 Years)	S/o Ibrahim, Pallancode, Adoor village, Kasaragod Taluk-671543	Drowned
5	Berikka Abdulla(77 Years)	S/o Kunhippalli, Ujampadi Hidayathnagar, Delampadi village, Kasaragod Taluk-671543	Drowned
6	Narayana Rai (48 Years)	S/o Kinhana Rai, Naniyarpallam, Bela village, Kasaragod Taluk-671321	Drowned
7	Rajendran(59 Years)	s/o Marimuthu, kakkayakunnu, Balla Village, Hosdurg	Drowned
8	Akhil sharavanan, (2 Years)	S/o Latha(w/o late sharavanan , kalichamaram, Panayal village, Hosdurg	Drowned
9	Pushpa (37 Years)	W/o Kumaran Nair, Mottathadi, Panayal Village, Hosdurg	Drowned
10	Geetha (28 Years)	D/o Lakshmana Shettigar, kavoodal, Thalakkala, Meenja Village, Kasaragod Taluk	Drowned
11	Kiran Joseph (14 Years)	S/o George Joseph, vazhaplakkal House, Balal P.O, Hosdurg	Drowned

State Relief Commissioner
Govt. of Kerala

ANNEXURE 2 - Assistance to fisherman for repair/replacement of boats, nets – Department of Fisheries, Govt. of Kerala							
No.	District	Number of fully damaged boats (@ Rs. 7000/boat)	Cost (in Rs.)	No.	District	Number of partially damaged boats (@ Rs. 3000/boat)	Cost (in Rs.)
1	Thiruvananthapuram	Nil	Nil	1	Thiruvananthapuram	2	6,000
2	Kollam	5	35,000	2	Kollam	3	9,000
3	Pathanamthitta	Nil	Nil	3	Pathanamthitta	Nil	Nil
4	Alappuzha	1	7,000	4	Alappuzha	Nil	Nil
5	Kottayam	Nil	Nil	5	Kottayam	Nil	Nil
6	Idukki	Nil	Nil	6	Idukki	Nil	Nil
7	Ernakulam	Nil	Nil	7	Ernakulam	Nil	Nil
8	Thrissur	Nil	Nil	8	Thrissur	3	9,000
9	Palakkad	Nil	Nil	9	Palakkad	Nil	Nil
10	Malappuram	2	14,000	10	Malappuram	3	9,000
11	Kozhikode	2	14,000	11	Kozhikode	5	15,000
12	Wayanad	Nil	Nil	12	Wayanad	Nil	Nil
13	Kannur	2	14,000	13	Kannur	1	3,000
14	Kasargod	Nil	Nil	14	Kasargod	2	6,000
Total		12	84,000	Total		19	57,000

No.	District	Number of fully damaged nets (@ Rs. 1850/net)	Cost (in Rs.)
1	Thiruvananthapuram	Nil	Nil
2	Kollam	Nil	Nil
3	Pathanamthitta	Nil	Nil
4	Alappuzha	6	11,100
5	Kottayam	Nil	Nil
6	Idukki	Nil	Nil
7	Ernakulam	Nil	Nil
8	Thrissur	1	1850

No.	District	Number of partially damaged nets (@ Rs. 1500/net)	Cost (in Rs.)
1	Thiruvananthapuram	Nil	Nil
2	Kollam	3	4,500
3	Pathanamthitta	Nil	Nil
4	Alappuzha	13	19,500
5	Kottayam	Nil	Nil
6	Idukki	Nil	Nil
7	Ernakulam	1	1,500
8	Thrissur	1	1,500

9	Palakkad	Nil	Nil
10	Malappuram	Nil	Nil
11	Kozhikode	Nil	Nil
12	Wayanad	Nil	Nil
13	Kannur	2	3,700
14	Kasargod	Nil	Nil
Total		9	16,650

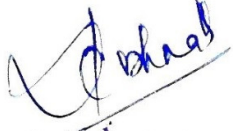
9	Palakkad	Nil	Nil
10	Malappuram	Nil	Nil
11	Kozhikode	Nil	Nil
12	Wayanad	Nil	Nil
13	Kannur	4	6,000
14	Kasargod	2	3,000
Total		24	36,000

State Relief Commissioner
Govt. of Kerala

Annexure 3

ABSTRACT OF DAMAGE DUE TO SOUTH WEST MONSOON-2013

1.Crop loss compensation as per NDRF norms	:	22,57,52,100.00
2.Desilting of fish farms 8413 ha	:	6,81,45,300.00
3.Cost of debris clearance from agricultural land in 4535.28 ha	:	45,98,54,500.00
4.Cost of Sandbags for temporary protection	:	11,58,00,000.00
5.Loss of substantial portion of land caused by land slide ,avalanche ,change of course of river in 4084 ha	:	10,21,00,000.00
Total	:	97,16,51,900.00


JOINT DIRECTOR OF AGRICULTURE (W.M)
DIRECTORATE OF AGRICULTURE
TRIVANDRUM

Appendix-III

Calculation of assistance for agricultural input subsidy - SMF-South West Monsoon 2013										
Sl. No.	Name of affected district	Total agricultural area affected (in ha.)	Total agricultural area where crop loss is >50%	Out of (4) area belonging			Assistance sought for different			Total assistance sought (Rs. In lakh)
				Rainfed	Irrigated	Perennial	Rsinfed (Rs.3000x Col.5A)	Irrigated (Rs.6000x Col.5B)	Perennial (Rs.8000x Col.5C)	
	1	3	4	5A	5B	5C	6A	6B	6C	7 (6A+6B+6C)
1	Thiruvananthapuram	1371.49	1371.49	48.1	1039.57	283.825	1.443	62.374	22.706	86.523
2	Kollam	621.27	621.27	49	546.46	25.810	1.47	32.787	2.065	36.322
3	Alappuzha	9368.74	9368.74	980.4	8114.82	273.520	29.412	486.889	21.882	538.183
4	Pathanamthitta	1499.24	1499.24	125.4	724.57	649.261	3.762	43.474	51.941	99.177
5	Kttayam	4892.95	4892.95	311.22	4084.84	496.892	9.3366	245.091	39.751	294.179
6	Idukki	864.83	864.83	102.9	298.52	463.404	3.087	17.911	37.072	58.071
7	Ernakulam	2706.18	2706.18	395.4	2150.82	159.956	11.862	129.049	12.797	153.708
8	Thrissur	2745.24	2745.24	112	2421.83	211.412	3.36	145.310	16.913	165.583
9	Palakkad	4323.34	4323.34	22.9	4191.01	109.428	0.687	251.461	8.754	260.902
10	Malappuram	1365.69	1365.69	42.4	1083.98	239.311	1.272	65.039	19.145	85.456
11	Kozhikode	1963.34	1963.34	33.1	1355.61	574.623	0.993	81.337	45.970	128.300
12	Wayanad	3432.94	3432.94	654.3	2597.72	180.920	19.629	155.863	14.474	189.966
13	Kannur	1567.22	1567.22	30.52	1411.13	125.575	0.9156	84.668	10.046	95.629
14	Kasargode	981.50	981.50	11	622.35	348.150	0.33	37.341	27.852	65.523
		37704	37704	2918.64	30643	4142.088	87.5592	1838.594	331.367	2257.521

Annexure 3(A)

DAMAGE CAUSED BY FLOOD/LAND SLIDES DURING SOUTH WEST MONSOON TO SMALL AND MARGINAL FARMERS LAND REQUIRED FOR DESILTING,REMOVAL OF DEBRIS AND LOSS OF SUBSTANTIAL PORTION OF LAND IN KERALA-2013

Sl.No	Name of the district	Sandbag reinforcement	Removal of debris on Agricultural land in hilly areas (Ha)	Desilting/restoration/repair of fish farms (Ha)	Loss of substantial portion of land caused by landslide,avalanche, change of course of rivers (Ha)
1	Kollam			1310	
2	Alappuzha	30 km	4000	2504	2062
3	Pathanamthitta	92 km (Bunds)		1500	
4	Kottayam		500	1038	1000
5	Idukki		19.03	1000	22
6	Ernakulam			85	
7	Thrissur		3.75	130	1000
8	Palakkad			227	
9	Malappuram			84	
10	Kozhikode		12.5	145	
11	Wayanad			129	
12	Kannur			14	
13	Kasargode			247	
	Total	122 km	4535.28	8413	4084

CERTIFICATE

It is certified that the thickness of sand/silt deposit is more than 3". There is no other assistance/subsidy has been availed of by/is eligible to the beneficiary under any other Government Scheme. The assistance will be given to only these small and marginal farmers whose ownership of the land lost is legitimate as per the revenue records

Director of Agriculture

Note

The bunds raised to check the water inflow from canals and rivers to the cultivation fields in 122Kms are broken and washed out incapacitating the fields to hold the water becoming unsuitable for raising the next crop

ANNEXURE 3 (B)

DISRICT WISE AGRICULTURE CROPS DAMAGE CAUSED BY SOUTH WEST MONSOON IN KERALA DURING 2013																			
Sl. No.	Name of District	SWM -2013		Total area affected by SWM during 2013(Ha)	Totalarea affected by swm 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) subject to ceiling if 1 Ha/farmer (Ha)			Area affected by SF/MF under sericulture (Ha)		
		Target (ha)	Coverage up to (ha)		Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Mulberry.	Tussar	Muga
		3	4		6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1	Thiruvananthapuram	1943	1850	45.53	0	45.53	0	0	45.5	0									
2	Kollam	960	946	4	0	4	0	0	4.0	0									
3	Alappuzha	10445	10320	6402.5	0	6403	0	0	6402.5	0									
4	Pathanamthitta	113	112	66	0	66	0	0	66.0	0									
5	Kottayam	5464	5410	3410	0	3410	0	0	3410.0	0									
6	Idukki	418	418	0	0	0	0	0	0.0	0									
7	Ernakulam	3354	3250	1350	0	1350	0	0	1350.0	0									
8	Thrissur	3033	3020	1388.8	0	1389	0	0	1388.8	0									
9	Palakkad	45200	38200	3375.5	0	3376	0	0	3375.5	0									
10	Malappuram	1088	1088	330.8	20	310.8	0	20	310.8	0									
11	Kozhikode	420	400	238	18	220	0	18	220.0	0									
12	Wayanad	8600	6000	1123	0	1123	0	0	1123.0	0									
13	Kannur	3054	3050	1162	0	1162	0	0	1162.0	0									
14	Kasargode	2284	2225	400	0	400	0	0	400.0	0									
	Total	86376	76289	19296	38	19258	0	38	19258.1	0									

Director of Agriculture

ANNEXURE 3(C)

CROPWISE AGRICULTURE DAMAGE BY SOUTH WEST MONSOON IN KERALA DURING - 2013

Sl. No.	Name of District	Crop	SWM 2013		Total area affected by SWM during 2013 (ha)	Total area affected by SWM 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 calamities irrespective of the size of his holdings being		
			Target (ha)	Coverage up to (ha)		Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial
			3	4		6	7	8	9	10	11	12	13	14	15	16	17
1	Thiruvananthapuram	Paddy	1943	1850	45.53		45.53			45.53							
2	Kollam	Paddy	960	946	4		4			4							
3	Alappuzha	Paddy	10445	10320	6402.5		6402.5			6403							
4	Pathanamthitta	Paddy	113	112	66		66			66							
5	Kottayam	Paddy	5464	5410	3410		3410			3410							
6	Idukki	Paddy	418	418	0		0			0							
7	Ernakulam	Paddy	3354	3250	1350		1350			1350							
8	Thrissur	Paddy	3033	3020	1388.8		1388.8			1389							
9	Palakkad	Paddy	45200	38200	3375.5		3375.5			3376							
10	Malappuram	Paddy	1088	1088	330.8	20	310.8		20	310.8							
11	Kozhikode	Paddy	420	400	238	18	220		18	220							
12	Wayanad	Paddy	8600	6000	1123		1123			1123							
13	Kannur	Paddy	3054	3050	1162		1162			1162							
14	Kasargode	Paddy	2284	2225	400		400			400							
			86376	76289	19296	38	19258		38	19258							

Director of Agriculture

ANNEXURE 3 (E)

DISTRICTWISE HORTICULTURECROP DAMAGE CAUSED BY HEAVY RAIN IN KERALA DURING SWM - 2013 (Area I Ha)

Districts	SWM 2013		Total area affected by SWM during 2013 (ha)	Total area affected by SWM 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 calamities irrespective of the size of his holdings being large limited to 2 ha/farmer (ha)			Area affected by SF/MF under sericulture (ha)	
	Targetted (ha)	Coverage up to (ha)		Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Tussar	Muga
				6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Thiruvananthapura	123984	122354	1326	48.1	994.04	283.8	48.1	994	283.8								
Kollam	122294	119195	617.27	49	542.46	25.81	49	542.5	25.81								
Alappuzha	55780	54746	2966.2	980.4	1712.3	273.5	980.4	1712	273.5								
Pathanamthitta	81674	79491	1433	125	659	649	125.4	658.6	649.3								
Kottayam	165071	162173	1557	311.2	674.84	570.9	311.2	674.8	570.9								
Idukki	223002	218179	864.83	102.9	298.52	463.4	102.9	298.5	463.4								
Ernakulam	141226	137573	1356.2	395.4	800.82	160	395.4	800.8	160								
Thrissur	119371	114280	1356.4	112	1033	211.4	112	1033	211.4								
Palakkad	157361	154051	947.84	22.9	815.51	109.4	22.9	815.5	109.4								
Malappuram	191965	178012	1034.9	42.4	753.18	239.3	42.4	753.2	239.3								
Kozhikode	172710	170601	1725.3	33.1	1117.6	574.6	33.1	1118	574.6								
Wayanad	137046	131828	2309.9	654.3	1474.7	180.9	654.3	1475	180.9								
Kannur	170484	164654	405.22	30.52	249.13	125.6	30.52	249.1	125.6								
Kasargode	123866	120662	581.5	11	222.35	348.2	11	222.4	348.2								
Total	2E+06	1927799	18482	2919	11347	4216	2919	11347	4216								

Director of Agriculture

ANNEXURE 3 (F)

CROP WISE DAMAGE ON HORTICULTURE CROPS CAUSED BY SOUTH WEST MONSOON IN KERALA DURING - 2013(Area in ha)																
Distri ct	Name of Crop	SWM 2013		Total area affected by SWM during 2013 (ha)	Total area affected by SWM 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			Area affected by other than SF & MF with > 50 % crop damage (out of the >50% crop damage		
		Target (ha)	Coverage up to (ha)		Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial	Rainfed	Irrigated	Perennial
		3	4		6	7	8	9	10	11	12	13	14	15	16	17
TRIVANDRUM	Coconut	69668	68571	187.229			187.229			187.23						
	Banana	8532	8524	795.936		795.94			795.94							
	Vegetables	2709	2650	197.56		197.56			197.56							
	Arecanut	922	910	6.88182			6.88182			6.8818						
	Pepper	4761	4698	5.34091			5.34091			5.3409						
	Coffee	0	0	0			0			0						
	Rubber	30970	30895	84.288			84.288			84.288						
	Cashew	1068	1015	0.08571			0.08571			0.0857						
	Tubers	1134	962	31	31			31								
	Betelvine	19	19	0.54		0.54			0.54							
	Tapioca	3711	3652	15	15			15								
	Ginger	70	70	0.6	0.6			0.6								
	Nutmeg	70	70	0			0			0						
	Clove	31	28	0			0			0						
	Cardomom	0	0	0			0			0						
	Cocoa	66	55	0			0			0						
	Turmeric	51	48	1.5	1.5			1.5								
	Groundnut	1	0	0	0											
	Sesamum	0	0	0	0				0							
Sugarcane	0	0	0			0										
Pineapple	201	187	0			0										
Total	123984	122354	1325.96	48.1	994.036	283.825	48.1	994.04	283.83							
KOLLAM	Coconut	56060	54098	13.92			13.92			13.92						
	Banana	6391	6258	86.4576		86.46			86.46							
	Vegetables	2870	2798	455		455			455							
	Arecanut	2007	1985	1.25455			1.25455			1.2545						
	Pepper	7932	7832	0.45455			0.45455			0.4545						
	Coffee	0	0	0			0			0						
	Rubber	36530	35892	8.912			8.912			8.912						
	Cashew	2775	2765	1.26857			1.26857			1.2686						
	Tubers	3966	3893	8.5	8.5			8.5								
	Betelvine	35	30	1		1			1							
	Tapioca	2813	2785	40	40			40								
Ginger	387	368	0	0			0									
Nutmeg	72	72	0			0			0							

	Clove	31	28	0		0		0												
	Cardomom	0	0	0		0		0												
	Cocoa	8	4	0		0		0												
	Turmeric	245	235	0.5	0.5			0.5												
	Groundnut	0	0	0	0			0												
	Sesamum	0	0	0	0			0												
	Sugarcane	1	0	0		0		0												
	Pineapple	171	152	0		0		0												
	Total	122294	119195	617.267	49	542.458	25.8097	49	542.46	25.81										
ALAPPUZHA	Coconut	39344	38956	223.326		223.326				223.33										
	Banana	2599	2458	898.32		898.32			898.32											
	Vegetables	2074	1986	803		803			803											
	Arecanut	1609	1562	13.073			13.0727			13.073										
	Pepper	1506	1452	7.0091			7.00909			7.0091										
	Coffee	0	0	0			0			0										
	Rubber	4380	4265	20.12			20.12			20.12										
	Cashew	2093	2011	1.61143			1.61143			1.6114										
	Tubers	1172	1121	791	791				791											
	Betelvine	25	18	11		11				11										
	Tapioca	410	400	151	151				151											
	Ginger	87	87	20.8	20.8				20.8											
	Nutmeg	231	225	0.88125			0.88125			0.8813										
	Clove	15	12	0			0			0										
	Cardomom	0	0	0			0			0										
	Cocoa	79	74	1.5			1.5			1.5										
	Turmeric	22	22	17.6	17.6				17.6											
	Groundnut	0	0	0	0				0											
	Sesamum	0	0	0	0				0											
	Sugarcane	54	41	6			6			6										
Pineapple	80	56	0			0			0											
Total	55780	54746	2966.24	980.4	1712.32	273.52	980.4	1712.3	273.52											
HANAMTHITTA	Coconut	15627	15211	255.029		255.029			255.03											
	Banana	3511	3498	502.854		502.85			502.85											
	Vegetables	1376	1365	145		145			145											
	Arecanut	1118	1112	27.3636			27.3636			27.364										
	Pepper	3421	3215	82.0091			82.0091			82.009										
	Coffee	0	0	0			0			0										
	Rubber	50260	48952	277.53			277.53			277.53										
	Cashew	597	542	4.08571			4.08571			4.0857										
	Tubers	2850	2798	66.8	66.8				66.8											
	Betelvine	35	35	10.72		10.72				10.72										
	Tapioca	741	725	51.6	51.6				51.6											
	Ginger	324	320	4	4				4											
Nutmeg	453	412	3.24375			3.24375			3.2438											

PAT	Clove	17	17	0			0			0									
	Cardomom	664	650	0			0			0									
	Cocoa	399	388	0			0			0									
	Turmeric	92	90	3	3				3										
	Groundnut	0	0	0	0					0									
	Sesamum	0	0	0	0					0									
	Sugarcane	24	10	0						0									
	Pineapple	165	151	0						0									
Total	81674	79491	1433.24	125.4	658.574	649.261	125.4	658.57	649.26										
KOTTAYAM	Coconut	28410	27956	295.874					295.874										295.87
	Banana	5633	5552	419.342			419.34				419.34								
	Vegetables	2208	1987	255.1			255.1				255.1								
	Arecanut	1681	1569	5.52455					5.52455										5.5245
	Pepper	6771	6258	3.98727					3.98727										3.9873
	Coffee	1	1	0.01					0.01										0.01
	Rubber	113730	112552	175.952					175.952										175.95
	Cashew	416	408	0.11429					0.11429										0.1143
	Tubers	1124	1101	115.02	115.02						115.02								
	Betelvine	7	7	0.4			0.4					0.4							
	Tapioca	566	566	192	192						192								
	Ginger	107	107	0	0						0								
	Nutmeg	1606	1468	14.425					14.425										14.425
	Clove	159	150	0					0										0
	Cardomom	200	200	0					0										0
	Cocoa	975	954	0.985					0.985										0.985
	Turmeric	84	84	4.2	4.2						4.2								
	Groundnut	0	0	0	0						0								
Oilpalm	88	85	74	0					74	0								74	
Sugarcane	19	10	0						0									0	
Pineapple	1286	1158	0.02						0.02									0.02	
Total	165071	162172.63	1556.95	311.22	674.842	570.892	311.22	674.84	570.89										
IDUKKI	Coconut	17012	16985	247.509					247.509										247.51
	Banana	6199	6054	212.525			212.52				212.52								
	Vegetables	5541	5021	86			86				86								
	Arecanut	2521	2459	11.7873					11.7873										11.787
	Pepper	87274	86989	45.6636					45.6636										45.664
	Coffee	12915	12561	16.868					16.868										16.868
	Rubber	40000	38950	85.294					85.294										85.294
	Cashew	1201	1154	0.17143					0.17143										0.0857
	Tubers	1914	1876	43	43						43								
	Betelvine	0	0	0			0					0							
Tapioca	968	968	56.8	56.8						56.8									
Ginger	697	697	1	1						1									
Nutmeg	2324	2250	8.2375					8.2375										8.2375	

	Clove	701	659	0.9375			0.9375		0.9375										
	Cardomom	32723	30986	43.1			43.1		43.1										
	Cocoa	7719	7698	3.836			3.836		3.836										
	Turmeric	226	215	2.1	2.1			2.1											
	Groundnut	1	0	0	0			0											
	Sesamum	0	0	0	0			0											
	Sugarcane	2174	1871	0			0		0										
	Pineapple	892	786	0			0		0										
	Total	223002	218179	864.829	102.9	298.525	463.404	102.9	298.52	463.32									
ERNAKULAM	Coconut	42894	40985	16.4229			16.4229		16.423										
	Banana	10346	9987	491.123		491.12		491.12											
	Vegetables	2795	2659	299.7		299.7		299.7											
	Arecanut	4550	4432	5.93182			5.93182		5.9318										
	Pepper	5025	5001	0.88364			0.88364		0.8836										
	Coffee	0	0	0			0		0										
	Rubber	59030	58620	113.12			113.12		113.12										
	Cashew	574	541	0.34286			0.34286		0.3429										
	Tubers	721	701	31.6	31.6			31.6											
	Betelvine	15	15	10		10			10										
	Tapioca	999	999	357.5	357.5			357.5											
	Ginger	196	196	2.5	2.5			2.5											
	Nutmeg	5938	5798	23.0563			23.0563		23.056										
	Clove	14	12	0			0		0										
	Cardomom	0	0	0			0		0										
	Cocoa	1256	1198	0.199			0.199		0.199										
	Turmeric	265	215	3.8	3.8			3.8											
	Groundnut	0	0	0	0			0											
	Sesamum	0	0	0	0			0											
	Sugarcane	1	0	0			0		0										
Pineapple	6607	6214	0			0		0											
Total	141226	137573	1356.18	395.4	800.823	159.956	395.4	800.82	159.96										
TRISSUR	Coconut	75364	73256	127.874			127.874		127.87										
	Banana	6979	6854	924.748		924.75		924.75											
	Vegetables	2442	2215	107.28		107.28		107.28											
	Arecanut	6311	6025	15.69			15.69		15.69										
	Pepper	4094	3989	2.40545			2.40545		2.4055										
	Coffee	0	0	0			0		0										
	Rubber	15410	13420	42.86			42.86		42.86										
	Cashew	1953	1896	0.88			0.88		0.88										
	Tubers	736	726	25	25			25											
	Betelvine	10	10	1		1			1										
Tapioca	265	258	76.5	76.5			76.5												
Ginger	53	53	8.5	8.5			8.5												
Nutmeg	5564	5412	21.7			21.7		21.7											

	Clove	17	15	0			0			0									
	Cardomom	0	0	0			0			0									
	Cocoa	58	54	0.002			0.002			0.002									
	Turmeric	66	66	2	2				2										
	Groundnut	0	0	0	0				0										
	Sesamum	0	0	0	0				0										
	Sugarcane	0	0	0			0			0									
	Pineapple	49	31	0			0			0									
	Total	119371	114280	1356.44	112	1033.03	211.412		112	1033	211.41								
PALAKKAD	Coconut	57094	56840	19.5314			19.5314				19.531								
	Banana	22887	21985	676.912		676.91				676.91									
	Vegetables	8263	8089	138.6		138.6				138.6									
	Arecanut	9683	9085	23.9991			23.9991				23.999								
	Pepper	5465	5399	10.9091			10.9091				10.909								
	Coffee	4650	4596	0			0				0								
	Rubber	36430	36012	48.436			48.436				48.436								
	Cashew	2914	2756	0.30286			0.30286				0.3029								
	Tubers	2356	2258	5.5	5.5				5.5										
	Betelvine	3	3	0		0				0									
	Tapioca	415	415	4.5	4.5				4.5										
	Ginger	1256	1256	10	10				10										
	Nutmeg	231	201	6.25			6.25				6.25								
	Clove	7	7	0			0				0								
	Cardomom	2754	2658	0			0				0								
	Cocoa	195	185	0			0				0								
	Turmeric	515	489	2.9	2.9				2.9										
	Groundnut	1501	1235	0	0				0										
	Sesamum	0	0	0	0				0										
	Sugarcane	568	425	0			0				0								
Pineapple	174	157	0			0				0									
Total	157361	154051	947.84	22.9	815.512	109.428		22.9	815.51	109.43									
ALAPPURAM	Coconut	104178	94087	64.8571			64.8571				64.857								
	Banana	10404	9201	626.486		626.49				626.49									
	Vegetables	4467	4315	122.4		122.4				122.4									
	Arecanut	19620	18530	44.5091			44.5091				44.509								
	Pepper	5732	5621	0.63636			0.63636				0.6364								
	Coffee	0	0	0			0				0								
	Rubber	39520	38415	125.804			125.804				125.8								
	Cashew	3572	3469	0.54857			0.54857				0.5486								
	Tubers	1620	1598	8.5	8.5				8.5										
	Betelvine	289	289	4.296		4.296				4.296									
	Tapioca	1492	1485	26.4	26.4				26.4										
Ginger	61	61	4.5	4.5				4.5											
Nutmeg	304	301	2.95625			2.95625				2.9563									

Ml	Clove	8	8	0			0		0										
	Cardomom	70	59	0			0		0										
	Cocoa	171	158	0			0		0										
	Turmeric	266	241	3	3			3											
	Groundnut	0	0	0	0			0											
	Sesamum	0	0	0	0			0											
	Sugarcane	0	0	0			0		0										
	Pineapple	191	174	0			0		0										
Total	191965	178012	1034.89	42.4	753.182	239.311	42.4	753.18	239.31										
KOZHIKODE	Coconut	121688	121241	363.446			363.446		363.45										
	Banana	4806	4508	705.412		705.41		705.41											
	Vegetables	2416	2345	412.2		412.2		412.2											
	Arecanut	9662	9562	65.6991			65.6991		65.699										
	Pepper	7613	7514	16.0136			16.0136		16.014										
	Coffee	2	1	0.065			0.065		0.065										
	Rubber	21380	20658	120.52			120.52		120.52										
	Cashew	1964	1845	0.94857			0.94857		0.9486										
	Tubers	903	874	5.5	5.5			5.5											
	Betelvine	9	9	0		0		0											
	Tapioca	360	360	18.6	18.6			18.6											
	Ginger	78	78	6.5	6.5			6.5											
	Nutmeg	390	325	3.75			3.75		3.75										
	Clove	52	50	3.75			3.75		3.75										
	Cardomom	220	204	0			0		0										
	Cocoa	707	658	0.431			0.431		0.431										
	Turmeric	283	215	2.5	2.5			2.5											
	Groundnut	0	0	0	0			0											
	Sesamum	0	0	0	0			0											
	Sugarcane	0	0	0			0		0										
Pineapple	177	154	0			0		0											
Total	172710	170601	1725.34	33.1	1117.61	574.623	33.1	1117.6	574.62										
WAYANAD	Coconut	10043	9845	136.554			136.554		136.55										
	Banana	11647	10254	1250.72		1250.72		1250.72											
	Vegetables	1304	1201	224		224		224											
	Arecanut	10445	9458	12.4364			12.4364		12.436										
	Pepper	16189	15245	1.61364			1.61364		1.6136										
	Coffee	67366	66215	0.64			0.64		0.64										
	Rubber	10070	9910	25.59			25.59		25.59										
	Cashew	623	589	0.08571			0.08571		0.0857										
	Tubers	1850	1799	219	219			219											
	Betelvine	1	1	0		0		0											
Tapioca	209	209	78	78			78												
Ginger	2673	2565	355.8	355.8			355.8												
Nutmeg	64	64	0			0		0											

	Clove	29	24	0			0			0									
	Cardomom	4115	4056	4			4			4									
	Cocoa	223	215	0			0			0									
	Turmeric	161	150	1.5	1.5			1.5											
	Groundnut	0	0	0	0			0											
	Sesamum	0	0	0	0			0											
	Sugarcane	2	0	0			0			0									
	Pineapple	32	28	0			0			0									
	Total	137046	131828	2309.94	654.3	1474.72	180.92	654.3	1474.7	180.92									
KANNUR	Coconut	76917	74895	45.4114			45.4114			45.4114									45.411
	Banana	5583	5412	240.726		240.73			240.73										
	Vegetables	2628	2369	8.4		8.4			8.4										
	Arecanut	11666	10985	11.2045			11.2045			11.205									11.205
	Pepper	9569	9412	2.00182			2.00182			2.0018									2.0018
	Coffee	0	0	0			0			0									0
	Rubber	44780	43985	63.1			63.1			63.1									63.1
	Cashew	17295	15698	3.85714			3.85714			3.8571									3.8571
	Tubers	590	540	6.5	6.5			6.5											
	Betelvine	7	7	0		0				0									
	Tapioca	332	321	16	16			16											
	Ginger	77	77	5.52	5.52			5.52											
	Nutmeg	236	214	0			0			0									0
	Clove	16	15	0			0			0									0
	Cardomom	128	124	0			0			0									0
	Cocoa	432	395	0			0			0									0
	Turmeric	95	91	2.5	2.5			2.5											
	Groundnut	0	0	0	0			0			0								
	Sesamum	0	0	0	0			0			0								
	Sugarcane	1	0	0			0			0									0
Pineapple	132	114	0			0			0									0	
Total	170484	164654	405.221	30.52	249.126	125.575	30.52	249.13	125.57										
ASARGODE	Coconut	56174	55895	212.686			212.686			212.69									
	Banana	2283	2148	156.913		156.91			156.91										
	Vegetables	1024	985	65.44		65.44			65.44										
	Arecanut	18039	17014	54.7255			54.7255			54.725									
	Pepper	6830	6751	3.93273			3.93273			3.9327									
	Coffee	0	0	0			0			0									0
	Rubber	31740	30240	76.498			76.498			76.498									
	Cashew	6803	6715	0.30857			0.30857			0.3086									
	Tubers	186	178	3.5	3.5			3.5											
	Betelvine	13	13	0		0				0									
	Tapioca	16	16	3.5	3.5			3.5											
	Ginger	22	22	2.5	2.5			2.5											
Nutmeg	62	60	0			0			0									0	

K	Clove	26	21	0		0		0										
	Cardomom	368	351	0		0		0										
	Cocoa	200	187	0		0		0										
	Turmeric	20	20	1.5	1.5			1.5										
	Groundnut	0	0	0	0			0										
	Sesamum	0	0	0	0			0										
	Sugarcane	1	0	0		0		0										
	Pineapple	59	46	0		0		0										
	Total	123866	120662	581.504	11	222.353	348.15	11	222.35	348.15								
TOTAL	Coconut	770473	748821	2209.67		2209.67	0	0	2209.7									
	Banana	107800	102693	7988.47	7988.47	0.00	0.00	7988.47	0.00									
	Vegetables	42117	39985	3319.68	3319.68	0	0	3319.7	0									
	Arecanut	99834	94688	300.08		300.08			300.08									
	Pepper	172182	169376	182.861		182.861			182.86									
	Coffee	84934	83374	17.583		17.583			17.583									
	Rubber	534230	522766	1268.02		1268.02			1268									
	Cashew	43848	41404	14.6114		14.6114			14.526									
	Tubers	21122	20425	1360.42	1360.4			1360.4										
	Betelvine	468	456	38.956		38.956			38.956									
	Tapioca	13297	13159	1087.4	1087.4			1087.4										
	Ginger	6088	5957	422.22	422.22			422.22										
	Nutmeg	17545	16872	84.5		84.5			84.5									
	Clove	1123	1046	4.6875		4.6875			4.6875									
	Cardomom	41242	39288	47.1		47.1			47.1									
	Cocoa	12488	12223	6.953		6.953			6.953									
	Turmeric	2391	2181	48.6	48.6			48.6										
	Groundnut	1503	1235	0	0			0										
	Sesamum	88	84.63	0	0			0										
	Sugarcane	2845	2357	6		6			6									
	Pineapple	10216	9408	0.02		0.02			0.02									
Total	1985834	1927799	18408	2919	11347	4142	2919	11347	4142									

Director of Agriculture

ANNEXURE 4 - Animal fatalities & loss to cattle sheds - Dept. of Animal Husbandry & Dept. of Dairy Development							
District		Milch animal/Poultry				Cattle Shed	Total assistance (in Rs.)
		Buffalo/cow	Goat	Calf	Poultry		
Trivandrum	No	16	9	7	60	32	389470
	Cost (Rs.)	262400	14850	70000	2220	40000	
Kollam	No	34	13	5	43	17	651891
	Cost (Rs.)	557600	21450	50000	1591	21250	
Pathanamthitta	No	24	17	9	57	43	567509
	Cost (Rs.)	393600	28050	90000	2109	53750	
Idukki	No	18	34	13	78	4	372186
	Cost (Rs.)	295200	56100	13000	2886	5000	
Kottayam	No	25	29	7	47	8	476589
	Cost (Rs.)	410000	47850	7000	1739	10000	
Alappuzha	No	229	401	90	52085	520	7084395
	Cost (Rs.)	3755600	661650	90000	1927145	650000	
Ernakulam	No	11	7	4	57	10	246559
	Cost (Rs.)	180400	11550	40000	2109	12500	
Thrissur	No	66	11	6	71	165	1369427
	Cost (Rs.)	1082400	18150	60000	2627	206250	
Palakkad	No	23	29	21	141	5	646517
	Cost (Rs.)	377200	47850	210000	5217	6250	
Malapuram	No	8	13	3	21	1	184677
	Cost (Rs.)	131200	21450	30000	777	1250	
Kozhikode	No	11	26	6	42	30	322354
	Cost (Rs.)	180400	42900	60000	1554	37500	
Wayanad	No	21	31	7	39	6	474493
	Cost (Rs.)	344400	51150	70000	1443	7500	
Kannur	No	20	27	5	27	29	459799
	Cost (Rs.)	328000	44,550	50,000	999	36250	
Kasargod	No	12	16	2	19	0	243903
	Cost (Rs.)	196800	26400	20000	703	0	

GRAND TOTAL	No	518	663	185	52787	870	1,34,89,769
	Cost (Rs.)	8495200	1093950	860000	1953119	1087500	

ANNEXURE 4A - Provision of feed and concentrate (22 days till date) - Dept. of Animal Husbandry & Dept. of Dairy Development				
Sl.No	Name of Taluk	Total number of animals fed		Cost in Rs.
		Cattle/Buffalo	Goat	
1	Nedumangad	132	0	63360
2	Neyyatinkara	214	0	102720
3	Thiruvananthapuram	114	0	54720
4	Varkala	102	0	48960
5	Kollam	87	0	41760
6	Kottarakara	91	0	43680
7	Pathanapuram	113	0	54240
8	Kunnathur	126	0	60480
9	Sasthamkota	67	0	32160
10	Thiruvalla	211	0	101280
11	Mallapally	143	0	68640
12	Adoor	129	0	61920
13	Kozhencherry	115	0	55200
14	Ranni	46	0	22080
15	Kuttanad	7328	0	4297440
16	Cherethala	1467	0	704160
17	Ambalapuzha	2143	0	1028640
18	Kottayam	1846	0	1298080
19	Vaikom	1467	0	704160
20	Chengacherry	766	0	367680
21	Thodupuzha	26	0	12480
22	Peerumedu	45	0	21600
23	Devikulam	34	0	16320

24	Udambanchola	67	0	32160
25	Aluva	21	0	10080
26	Kanayanoor	13	0	6240
27	Kochi	17	0	8160
28	Kothamangalam	45	0	21600
29	Muvattupuzha	32	0	15360
30	Paravoor	24	0	11520
31	Thalappilly	598	327	667440
32	Chavakkad	205	128	311760
33	Kodungallor	218	115	239760
34	Munkundapuram	600	474	773280
35	Thrissur	475	264	532080
36	Palakkad	132	0	63360
37	Alathur	206	0	98880
38	Chittur	156	0	74880
39	Shoranur	321	0	154080
40	Manarrkadu	421	0	202080
41	Eranadu	35	0	16800
42	Nilambur	65	0	31200
43	Tirur	78	0	37440
44	Ponnani	34	0	16320
45	Thirurangadi	23	0	11040
46	Vythiri	2341	0	1123680
47	Manathavadi	1567	0	752160
48	sulatnbattery	5632	0	2703360
49	Kannur	1231	0	590880
50	Thalassery	246	0	118080
51	Thaliparambu	567	0	272160
52	Kasargode	123	0	59040

53	Hosdurg	57	0	27360
54	Kozhikode	2341	0	1123680
55	vadakara	1698	0	815040
56	Koyilandy	2341	0	1123680
	TOTAL	38742	1308	2,13,06,400

ANNEXURE 4B - Additional cost of medicines - Dept. of Animal Husbandry & Dept. of Dairy Development				
Sl. No	Name of Taluk	Total number of animals treated		Cost in Rs.
		Cattle/Buffalo	Goat	
1	Nedumangad	132	0	234000
2	Neyyatinkara	214	0	167821
3	Thiruvananthapuram	114	0	219000
4	Varkala	102	0	123450
5	Kollam	87	0	234156
6	Kottarakara	91	0	145670
7	Pathanapuram	113	0	214500
8	Kunnathur	126	0	134500
9	Sasthamkota	67	0	115000
10	Thiruvalla	211	0	98760
11	Mallapally	143	0	88760
12	Adoor	129	0	231450
13	Kozhencherry	115	0	123450
14	Ranni	46	0	123000
15	Kuttanad	7328	0	1372890
16	Cherethala	1467	0	67890
17	Ambalapuzha	2143	0	56320
18	Kottayam	1246	0	52300
19	Vaikkom	1467	0	45690
20	Chengacherry	766	0	167900

21	Thodupuzha	26	0	34250
22	Peerumedu	45	0	43200
23	Devikulam	34	0	14500
24	Udambanchola	67	0	24500
25	Aluva	21	0	34500
26	Kanayanoor	13	0	25600
27	Kochi	17	0	17890
28	Kothamangalam	45	0	13450
29	Muvattupuzha	32	0	23400
30	Paravoor	24	0	19800
31	Thalappilly	598	327	23400
32	Chavakkad	205	128	45600
33	Kodungallor	218	115	54300
34	Munkundapuram	600	474	28900
35	Thrissur	475	264	32000
36	Palakkad	132	0	123456
37	Alathur	206	0	342560
38	Chittur	156	0	167890
39	Shoranur	321	0	45000
40	Manarrkadu	421	0	48970
41	Eranadu	35	0	21400
42	Nilambur	65	0	89000
43	Tirur	78	0	43200
44	Ponnani	34	0	25600
45	Thirurangadi	23	0	12300
46	Vythiri	2341	0	34500
47	Manathavadi	1567	0	67890
48	Sultanbattery	5632	0	34200
49	Kannur	1231	0	50090

50	Thalassery	246	0	23780
51	Thaliparambu	567	0	34200
52	Kasargode	123	0	89700
53	Hosdurg	57	0	23000
54	Kozhikode	2341	0	45600
55	Vadakara	1698	0	125600
56	Koyilandy	2341	0	235690
	TOTAL	38142	1308	61,35,423

Essentiality certificate from the Director, Animal Husbandry is enclosed separately.

ANNEXURE 4C – Transportation of fodder - Dept. of Animal Husbandry & Dept. of Dairy Development		
Sl. No	District	Cost in Rs.
1	Alappuzha	3,00,000
2	Kottayam	3,50,000
3	Pathanamthitta	2,72,000
4	Kannur	2,50,000
5	Kozhikode	50,000
6	Kollam	1,51,000
7	Thrissur	2,20,000
8	Thiruvananthapuram	1,05,000
	TOTAL	16,98,000

State Relief Commissioner
Govt. of Kerala

ANNEXURE 5 - Drinking Water Supply in affected areas (1 June to 30 July 2013)

No.	District	Number of tankers/boats engaged till date	Average cost per trip	No. of trips engaged	Cost incurred (Rs.)
1	Thiruvananthapuram	2	3000	20	60000
2	Kollam	1	2600	10	26000
3	Pathanamthitta	5	3500	60	210000
4	Alappuzha	60 (including boats engaged)	4100	575	2357500
5	Kottayam	20	2500	200	500000
6	Idukki	0	0	0	0
7	Ernakulam	0	0	0	0
8	Thrissur	15	2400	178	427200
9	Palakkad	0	0	0	0
10	Malappuram	0	0	0	0
11	Kozhikode	2	2800	18	50400
12	Wayanad	5	2500	50	125000
13	Kannur	0	0	0	0
14	Kasargod	0	0	0	0
Total		110		1111	37,56,100

State Relief Commissioner
Govt. of Kerala

ANNEXURE 6 - Repair of damaged irrigation structures - Department of Irrigation, Govt. of Kerala								
No.	District Name	Nature of damage	Type of work (embankments, canals, irrigation structures etc) - Mention whether it is a major & medium project or minor irrigation project)	Approximate cost as per the schedule of rates of the district (in lakhs)	Approximate area affected (in ha) due to damage	Actual Expenditure incurred	Committed expenditure as per the norms of NDRF within 30 days (in lakhs)	Total committed expenditure (in lakhs)
1	Thiruvananthapuram	Structural	Repair of minor irrigation structures and repair of streams embankments	80	200	Works have started. No bills have been raised as yet	93.2	93.2
2	Kollam	Masonry	Repair of protection walls	680	700		800	800
		Structural	Repair of minor irrigation structures and repair of streams embankments	208			243	243
3	Pathanamthitta	Structural	Repair of minor irrigation structures and repair of streams embankments	358	430		418.2	418.2
		Masonry	Repair to canal bunds	128			150	150
4	Alappuzha	Masonry	Repair of protection walls	440	380		500	500
5	Kottayam	Masonry	Repair to canal bunds	38	210		44	44
		Structural	Repair of minor irrigation structures and repair of streams embankments	69			81	81
6	Ernakulam	Masonry	Repair of protection walls	146	190		169.39	169.39
		Structural & mechanical	Repair of lift irrigation structures, pump houses and motors	45			52	52
7	Thrissur	Masonry	Repair of protection walls	635	800		736.7	736.7
		Masonry	Repair to canal bunds	6			7	7
		Structural	Repair of minor irrigation structures and repair of streams embankments	287			328.26	328.26

8	Palakkad	Structural	Repair of minor irrigation structures and repair of streams embankments	40	145		46	46
9	Malappuram	Masonry	Repair of protection walls	312	680		361	361
		Masonry	Repair to canal bunds	803			942	942
10	Kozhikode	Masonry	Repair of protection walls	1760	1300		2064	2064
		Masonry	Repair to canal bunds	26			30	30
		Structural	Repair of minor irrigation structures and repair of streams embankments	348			408	408
11	Kannur	Structural & mechanical	Repair of irrigation regulator	52	790		60	60
		Masonry	Repair to canal bunds	980			1151	1151
12	Kasargod	Masonry	Repair of protection walls	1222	800		1435	1435
	Total			8663	6625		10119.75	10119.75

State Relief Commissioner
Govt. of Kerala

ANNEXURE 7 - Water Supply Schemes – Kerala Water Authority

Name of District		Kollam				
Sl. No.	Name of Scheme	Location (Dist/Block)	Whether Repair or Repair	Brief Description of works proposed	Estimated Cost (Rs. Lakhs) as per latest SoR	Time Required for the work (Months)
URBAN						
1	Qulin Water Supply Scheme	Kollam Corporation	Repair	Source Improvement in Sasthamkotta lake	27.00	1
2	Urban water Supply Scheme to Punalur Municipality	Punalur Municipality	Repair	Source Improvement by supply and packing Filter media	8.50	1
TOTAL					35.50	
RURAL						
1	RWSS to Pathanapuram	Pathanapuram Block	Repair	Source, Improvement - Cleaning infiltration gallery , repacking filter media etc	2.50	1
2	RWSS to Piravanthoor	Pathanapuram Block	Repair	Source, Improvement - Cleaning infiltration gallery , repacking filter media etc	2.75	1
3	CWSS to Alappadu, Clappana, Oachira & Karunagappally	Oachira Block	Repair	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	Repair	Repair 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	Repair	Repair of open well , laying pumping main and distribution and providing syntax tank reservoir	14.00	1
6	Mini water Supply scheme to Palatharakulam in	Sasthamkotta Block	Repair	Repair of open well , laying pumping main and distribution and providing syntax tank reservoir	16.00	1

	Poruvazhy Panchayat					
7	Water Supply Scheme to Edakkunnu Poruvazhy Scheme	Sasthamkotta Block	Repair	Repair of Check dam and side protection work at Pallikkal River	1.00	1
8	RWSS to West Kallada	Sasthamkotta Block	Repair	Source improvement - Cleaning of intake well at gallery	3.00	1
9	RWSS to Mynagappaly	Sasthamkotta Block	Repair	Source improvement - Cleaning of intake well at gallery	2.80	1
10	RWSS to Poruvazhy	Sasthamkotta Block	Repair	Source improvement - Cleaning of intake well at gallery	3.50	1
11	RWSS to Bunglawil west	Sasthamkotta Block	Repair	Source improvement - Cleaning of intake well at gallery	2.80	1
12	RWSS to Kunnathoor	Sasthamkotta Block	Repair	Source improvement - Cleaning of intake well at gallery	3.00	1
13	RWSS to Kunnathoor	Sasthamkotta Block	Repair	Interconnection work and laying distribution line from providing Water Supply Scheme to pump set	15.00	1
TOTAL					90.35	
GRAND TOTAL					125.85	

Name of District		Idukki (Rural)				
Sl. No.	Name of Scheme	Location (Dist/ Block)	Whether Repair or Repair	Brief Description of works proposed	Estimated cost (Rs. Lakhs) As per latest SoR	Time required for construction (Months)
1	RWSS to Kudayathoor	Idukki/ Elamdesom	Repair	Replacing damaged and rusted 125mm GI pumping main 1200 m	30	one
2	RWSS to Kudayathoor	Idukki/ Elamdesom	Repair	Reconstruction of collapsed outlet chamber and protection wall and rearranging outlet pipe	5	one
3	WSS to Thodupuzha	Idukki/	Repair	Maintenance and cleaning the ground	1.87	one

		Thodupuzha		level tank and clearing compound at Pattanikkunnu.		
4	WSS to Thodupuzha	Idukki/ Thodupuzha	Repair	Construction of intake chamber protection arrangements at RWPH at Thodupuzha	2.5	one
5	RWSS to Kumaramangalam	Idukki/ Thodupuzha	Repair	Laying Repair 75mm PVC (8kg) pipe line for a length of 1000m and shifting conections to the Repairly laid line along Plantation- Madrassapady colony road.	4.5	one
6	RWSS to Idukki Kanjikuzhi	Idukki/ Idukki	Repair	Leak rectification of 300mm CI gravity line at Njavalchuvadu-Peppara and providing anchor blocks	0.7	one
7	RWSS to Idukki Kanjikuzhi	Idukki/ Idukki	Repair	Laying 150mm GI pipe of about 100m at Manjappara-Ashok junction, Thadianpadu	2	one
8	RWSS to Pasupara	Idukki/ Kattappana	Repair	Providing temberary bund for diverting water to the source	1	one
9	RWSS to Chakkupallam	Idukki/ Kattappana	Repair	Relaying 250 mm AC pumping main for a length of 100 m at Thekkady	1.55	one
10	RWSS to Vandiperiyar	Idukki/ Azhutha	Repair	Laying 63 mm PVC pipe from Nellimala to 62th mile for a length of 2500 m	6	one
11		Idukki/ Azhutha	Repair	Changing filter media- 3 Nos	30	one
12	RWSS to Kumily	Idukki/ Azhutha	Repair	Interconnection works at Rosapookandam by laying 50 mm GI pipe- 100 m	2	one

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

25	RWSS to Puliyanmala	Idukki/ Kattappana	Repair	Providing temberary bund for diverting water to the source	1	one
26	RWSS Pullikkanam	Idukki/ Azhutha	Repair	Urgent rennovation of damaged pump house	4	one
Total					127.22	

Name of district		Wayanad			
Name of Scheme	Location Dist./Block	Whether Repair or Repair	Brief description of works proposed	Estimated cost (Rs.in Lakhs) As per latest SOR	Time required for construction Months
Source Improvement					
ARWSS to Padinharthara and Thariyodu Villages	Wayanad/ Kalpetta	Repair	Interconnecting Baby Well to Intake well at Padinharethara	3.00	One Month
RWSS to Mooppainad	Wayanad/ Kalpetta	Repair	Repair of Infiltration gallery and cleaning well at Vattachola	12.00	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Cleaning of well and weir at Kottoor	2.50	One Month
RWSS to Thavinhal	Wayanad/ Mananthavady	Repair	Cleaning of well and leading channel	1.00	One Month
RWSS to Neervaram	Wayanad/ Panamaram	Repair	Cleaning of well at Neervaram	0.75	One Month
RWSS to Kokkuzhy	Wayanad/ Kalpetta	Repair	Cleaning of well and infiltration gallery	5.00	One Month
RWSS to Pinangode	Wayanad/ Kalpetta	Repair	Cleaning of well and infiltration gallery	5.00	One Month
RWSS to Kottathara	Wayanad/ Kalpetta	Repair	Cleaning of well and infiltration gallery	3.00	One Month

RWSS to Muttill-Zone-II	Wayanad/ Kalpetta	Repair	Cleaning of well and infiltration gallery	3.00	One Month
RWSS to Muttill-Zone-III	Wayanad/ Kalpetta	Repair	Cleaning of well and infiltration gallery	2.50	One Month
RWSS to Muttill-Zone-IV	Wayanad/ Kalpetta	Repair	Cleaning of infiltration gallery	2.00	One Month
RWSS to Kariyampadi	Wayanad/ Kalpetta	Repair	Cleaning of well and infiltration gallery	3.00	One Month
WSS to Gandhi Nagar	Wayanad/ Kalpetta	Repair	Cleaning well	0.30	One Month
RWSS to Vythiri	Wayanad/ Kalpetta	Repair	Construction of baby well and providing submersible pump set	15.00	One Month
RWSS to valiyapara	Wayanad/ Kalpetta	Repair	Cleaning well	1.00	One Month
RWSS to Meenangadi	Wayanad/S.Bathery	Repair	Cleaning well	1.00	One Month
CWSS to S.Bathery and Noolpuzha	Wayanad/ S.Bathery	Repair	Cleaning well filter media	2.50	One Month
CWSS to S.Bathery and Noolpuzha	Wayanad/ S.Bathery	Repair	Cleaning of well and weir	2.50	One Month
WSS to Poothadi	Wayanad/ S.Bathery	Repair	Cleaning of clariflocculator	1.00	One Month
WSS to Poothadi	Wayanad/ S.Bathery	Repair	Cleaing of GL tank at Athirattukunnu, Iru;am and Vattathani and Cheengode	1.00	One Month
CWSS to Pulpally and Mullankolly	Wayanad/ S.Bathery	Repair	Cleaning well	2.00	One Month
WSS to Sasimala	Wayanad/ S.Bathery	Repair	Cleaning well	0.50	One Month
WSS to Seethamunt	Wayanad/ S.Bathery	Repair	Cleaning well	0.50	One Month

WSS to Illiyambam	Wayanad/ S.Bathery	Repair	Cleaning well	0.50	One Month
WSS to Kalluvayal	Wayanad/ S.Bathery	Repair	Desilting of well and Pond	1.00	One Month
WSS to Vilambukandom	Wayanad/ Mananthavady	Repair	Cleaning well	2.00	One Month
ARWSS to Vemo, Nelloornadu and Porunnanore villages	Wayanad/ Mananthavady	Repair	Cleaing of well and leading channel	2.00	One Month
ARWSS to Vemo, Nelloornadu and Porunnanore villages	Wayanad/ Mananthavady	Repair	Cleaning slow sand filter and sedimentation tank and filling fresh sand in fiter chamber	15.00	One Month
RWSS to Manathavady	Wayanad/ Mananthavady	Repair	Cleaning well and infiltration gallery	6.00	One Month
RWSS toThirunelly	Wayanad/ Mananthavady	Repair	Cleaning well and infiltration gallery	3.00	One Month
RWSS to Edavaka	Wayanad/ Mananthavady	Repair	Cleaning well and infiltration gallery	3.00	One Month
RWSS to Thavinhal	Wayanad/ Mananthavady	Repair	Cleaning well and infiltration gallery	3.00	One Month
RWSS to Neervaram	Wayanad/ Mananthavady	Repair	Cleaning well and infiltration gallery	1.00	One Month
RWSS to Panamaram	Wayanad/ Mananthavady	Repair	Cleaning well and infiltration gallery	1.00	One Month
RWSS to Pottenkolly	Wayanad/Mana nthavady	Repair	Cleaning well and infiltration gallery	1.00	One Month
RWSS to Valliyooorkav	Wayanad/ Mananthavady	Repair	Cleaning well and infiltration gallery	1.00	One Month
Construction of temporary check dams to raise water level at source					

ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Construction of temporary bund across Kottoor river	0.60	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Construction of temporary bund across Noolpuzha river	2.00	One Month
WSS to Poothadi	Wayanad/ S.Bathery	Repair	Construction of temporary bund across Panamaram river	7.00	One Month
CWSS to Pulpally & Mullankolly	Wayanad/ S.Bathery	Repair	Construction of temporary bund across Kabani river	4.00	One Month
RWSS to Meenangadi	Wayanad/ S.Bathery	Repair	Construction of temporary bund across Kuttirayan river	0.75	One Month
ARWSS to Padinjarethara and Thariyode	Wayanad/ Kalpetta	Repair	Construction of temporary bund across Karaman thode	2.00	One Month
RWSS to Muttil Zone-II	Wayanad/ Kalpetta	Repair	Construction of temporary bund across Malakkad river	2.00	One Month
RWSS to Thavinhal	Wayanad/ Mananthavady	Repair	Construction of temporary bund across thavinhal river	1.50	One Month
PIPE LINE EXTENSION TO VARIOUS PLACES					
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Urumbil colony to Loorde nagar with 63mm PVC 10Kg for a length of 500M	2.00	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Palathanam to Kuttaipalam with 63mm PVC 10Kg for a length of 500M	2.00	One Month

CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to MS. Kavala to Kammarambail kavala with 63mm PVC 10Kg for a length of 1100M	4.00	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Thurithi kavala to Madal with 75mm PVC 10Kg for a length of 2200M	9.20	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Irrippudu kavala to Madal with 75mm PVC 10Kg for a length of 2200M	9.20	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Mailoth Mathew to Mela Padichira with 75mm PVC 10Kg for a length of 930M	3.90	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/S.Bathery	Repair	Pipe line extension to Kerof kavala to Karimamkunnu with 63mm PVC 10Kg for a length of 1110M	4.05	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Pulari waiting shed to Gramasree kavala with 63mm PVC 10Kg for a length of 1460M	5.30	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Pallithazham to Udaya kavala with 63mm PVC 10Kg for a length of 1600M	5.85	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Pipe line extension to Kolagapara to Mattapara with 63mm PVC 10Kg for a length of 1000M	3.65	One Month
WSS to Poothadi	Wayanad/ S.Bathery	Repair	Pipe line extension to Manalvayal to Ellakolly with 63mm PVC 10Kg for a length of 500M	1.82	One Month
WSS to Poothadi	Wayanad/ S.Bathery	Repair	Pipe line extension to Moonnakuzhi to Valavayal with 63mm PVC 10Kg for a length of 700M	2.55	One Month

CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Padichira PH Centre gto Padinhara kavala with 63mm PVC 10Kg for a length of 1000M	3.65	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Madapally kundu to Kappiset with 63mm PVC 10Kg for a length of 1000M	3.65	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Kappiset Pallithazham road with 63mm PVC 10Kg for a length of 1100M	4.00	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Marakkadavu to Grahannur road with 63mm PVC 10Kg for a length of 1600M	5.85	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Awashrya kavala to Kolavally road with 63mm PVC 10Kg for a length of 1000M	3.65	One Month
CWSS to Pulpally and Mullankolly Pts	Wayanad/ S.Bathery	Repair	Pipe line extension to Surabi to Pachikara mukku road with 75mm PVC 10Kg for a length of 1500M	6.27	One Month
ARWSS to Thirunelly	Wayanad/ Mananthavady	Repair	Pipe line extension to Koolimoola Colony with 63mm PVC 6Kg for a length of 200M	2.50	One Month
ARWSS to Thirunelly	Wayanad/ Mananthavady	Repair	Pipe line extension to Koolimoola UP School with 63mm PVC 10Kg for a length of 1000M	3.75	One Month
ARWSS to Thirunelly	Wayanad/ Mananthavady	Repair	Pipe line extension to Anappara HS with 63mm PVC 10Kg for a length of 1000M	3.75	One Month

REPLACEMENT OF DAMAGED PIPE LINE FOR RESTORING INTERRUPTED WATER SUPPLY

RWSS to Muttill Zine-I	Wayanad/ Kalpetta	Repair	Inter connection with ARWSS to Kaniyambetta and Muttill zone I with 110mm PVC class 6kg/cm2 pipe	1.70	One Month
RWSS to Muttill Zine-I	Wayanad/ Kalpetta	Repair	Laying 40mm PVC pipe class 6kg/cm2 for a length of 300m and 32mm GI 60m at Pariyaram	1.00	One Month
RWSS to Muttill Zine-II	Wayanad/ Kalpetta	Repair	Laying Pumping main instead of damaged AC pipe with 90mm PVC 10kg/cm2	7.20	One Month
RWSS to Muttill Zine-III	Wayanad/ Kalpetta	Repair	Laying distribution pipe of size 90mm PVC 6kg instead of damaged pipe line	2.20	One Month
RWSS to Muttill Zine-IV	Wayanad/ Kalpetta	Repair	Laying distribution pipe of size 50mm PVC 10kg/cm2 instead of damaged pipe line	1.62	One Month
RWSS to Pinangode	Wayanad/ Kalpetta	Repair	Laying Repair Pumping main instead damaged AC pumping main with 160 mm PVC class 10kg/cm2 pipe	14.20	One Month
RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Laying distribution pipe of 160mm 6kg/cm2 instead of damaged pipe line at town	1.10	One Month
RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Laying 300m 90mm PVC 10kg/cm2 pipe pipe instead of damaged during road widening work	2.40	One Month
RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Laying 500m 63mmPVC 6kg/cm2 pipe to Padinjarethara school road	1.70	One Month
RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Laying 200m 110 mm PVC pipe class 12.5kg/cm2 damaged during road widening and filling work	1.90	One Month

RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Laying 500m 63mmPVC 6kg/cm ² pipe to Panthipoyil Edakkadumukku to Varembetta road	2.95	One Month
RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Laying 500m 90mmPVC 8kg/cm ² pipe and 75m 80mm GI pipe in Mullankandy over Repair bridge due to filling and constructing of Repair bridge	4.20	One Month
RWSS to Valiyapara	Wayanad/ Kalpetta	Repair	Laying 65mm GI pipe instead of damaged pumping main to vayanamkunnu	1.00	One Month
RWSS to Valiyapara	Wayanad/ Kalpetta	Repair	laying 75mm PVC pipe class 6kg/cm ² along 6th mile to Achoor road for a length on500m	3.20	One Month
RWSS to Valiyapara	Wayanad/Kalpetta	Repair	laying 75mm PVC pipe class 6kg/cm ² along mylampathy bridge Jn to Pozhuthana for a length on 500m	3.20	One Month
RWSS to Valiyapara	Wayanad/ Kalpetta	Repair	laying 90mm PVC pipe class 8kg/cm ² along Pozhuthana to Perinkode Jn instead of damaged AC pipefor a length on 1000m	10.50	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Relaying dislocated 150mm GI Gravity main and providing anchor blocks	0.50	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying 50mm PVC pipe class 10kg/cm ² for a length of 500m in Gramathvayal -Ambaleri-Mythani area	1.61	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying Repair line with 110mm PVC class 10kg for a length of 400m due to road widening	2.60	One Month

WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying 75mm PVC pipe class 6kg/cm2 for a length of 500m along ware house-Munderi road	2.85	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying 90mm PVC pipe class 6kg/cm2 for a length of 500m along Ambeleri-munderi road	3.40	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying 63mm PVC pipe class 10kg/cm2 for a length of 200m and 50GI 60m along Emily kundu road	1.05	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying 63mm PVC pipe class 6kg/cm2 for a length of 1200m along Gas godown to semitrykunnu Reach-I	2.75	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying 63mm PVC pipe class 6kg/cm2 for a length of 1200m along Gas godown to semitrykunnu Reach-II	1.38	One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Laying 40mm PVC pipe class 6kg/cm2 for a length of 100m along to thuriyambam colony	0.30	One Month
WSS to Kokkuzhi	Wayanad/ Kalpetta	Repair	Laying 90mm PVC class 12.5kg/cm2 instead od damaged AC pipe for a length of 600m	3.00	One Month
WSS to Kottathara	Wayanad/ Kalpetta	Repair	Laying 50mm PVC pipe class 6kg/cm2 for a length of 600m to Kurinjalakomkunnu colony	1.83	One Month
WSS to Kottathara	Wayanad/ Kalpetta	Repair	Laying 50mm PVC pipe class 6kg/cm2 for a length of 300m to myladi	0.95	One Month

WSS to Kaniyambetta	Wayanad/ Kalpetta	Repair	Laying 63mm PVC pipe class 6kg/cm2 for a length of 600m to Petrol bank to Kizhakkayilkunnu	2.05	One Month
WSS to Mooppainad	Wayanad/Kalpetta	Repair	Laying 90mm PVC pipe class 8kg/cm2 for a length of 500m in Manalvayal instead of damaged pipe line	2.26	One Month
WSS to Mooppainad	Wayanad/ Kalpetta	Repair	Laying 50mm PVC pipe class 6kg/cm2 for a length of 500m in Manalvayal chettiyan colony	1.53	One Month
WSS to Mooppainad	Wayanad/ Kalpetta	Repair	Laying 63mm PVC pipe class 6kg/cm2 for a length of 1000m in Manalvayal Kallukeni road	3.39	One Month
CWSS to S.Bathery & Noolpuzha	Wayanad/ S.Bathery	Repair	CWSS to S.Bathery and Noolpuzha- Laying damaged Distribution line to Pazhupathoor in S.Bathery panchayath.	18.00	One Month
CWSS to S.Bathery and Noolpuzha	Wayanad/ S.Bathery	Repair	CWSS to S.Bathery and Noolpuzha- Laying Distribution line to Poothikkadu in S.Bathery panchayath.	9.20	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Laying 63mm PVC pipe class 10kg/cm2 for a length of 500m in Andoor Cheenapulle road	1.82	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Laying 63mm PVC pipe class 10kg/cm2 for a length of 500m in Andoor Cheenapulle road at Chathikolly	2.91	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Laying 63mm PVC pipe class 10kg/cm2 for a length of 500m in Thattiyad road	1.82	One Month

ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Laying 63mm PVC pipe class 10kg/cm2 for a length of 1000m in Thomattuchal - Kalleri road	3.65	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Laying 63mm PVC pipe class 10kg/cm2 for a length of 600m in Andoor Thamazh colony	2.18	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Laying 63mm PVC pipe class 10kg/cm2 for a length of 1000m in Rest house to Chakrutty vayal	3.65	One Month
RWSS to Edavaka	Wayanad/ Mananthavady	Repair	Laying 150mm Gi pipe for a length of 150m at Edavaka pump house	3.50	One Month
RWSS to Thavinhall	Wayanad/ Mananthavady	Repair	Laying 150mm Gi pipe for a length of 300m near Thavinhall	7.00	One Month
ARWSS to Anjukunnu & Kuppathodu villages-	Wayanad/ Mananthavady	Repair	Laying 250mm MS Pumping main near Vilambukandam pump house	0.85	One Month
ARWSS to Anjukunnu & Kuppathodu villages-	Wayanad/ Mananthavady	Repair	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	One Month
ARWSS to Padinjharethara and Thariyode villages-	Wayanad/Mananthavady	Repair	ARWSS to Padinjharethara and Thariyode villages- Replacing damaged pumping main at Thengumunda	2.00	One Month
ARWSS to Padinjharethara and Thariyode villages-	Wayanad/ Mananthavady	Repair	ARWSS to Padinjharethara and Thariyode villages- Replacing damaged pumping main at Manhura	5.00	One Month

ARWSS to Vemom Nallooradu and Porunnannoor villages	Wayanad/ Mananthavady	Repair	ARWSS to Vemom Nallooradu and Porunnannoor villages- Replacing of Damaged 160 mm PVC distribution line at Payyampally- Kurukkanmoola road for a length of 1000 m.	12.00	One Month
Immediate repair of damaged pump sets					One Month
WSS to Kalpetta	Wayanad/ Kalpetta	Repair	Repair to 25 HP submersible Pump set	0.5	One Month
WSS to Kaniyambetta	Wayanad/ Kalpetta	Repair	Repair to 40 HP submersible Pump set (Two works)	0.30	One Month
WSS to Kokkuzhi	Wayanad/ Kalpetta	Repair	Repair to 25 HP submersible Pump set (Two works)	0.30	One Month
WSS to Kokkuzhi	Wayanad/ Kalpetta	Repair	Repair to 20 HP submersible Pump set	0.15	One Month
WSS to Vythiri	Wayanad/ Kalpetta	Repair	Repair to 20HP Submersible motor and pump set(5five works)	0.80	One Month
RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Repair to 60 HP VT Pump set at Padinjarethara	2.20	One Month
RWSS to Padinjarethara and thariyode Villages	Wayanad/ Kalpetta	Repair	Repair to 60 HP VT Pump set at Padinjarethara	2.00	One Month
RWSS to Valiyapara	Wayanad/ Kalpetta	Repair	Repair and Overhauling of Motor Pump set at Valiyapara	1.00	One Month
WSS to Kottathara	Wayanad/ Kalpetta	Repair	Repair and over hauling of 35HP VT Pump set at Kottathara Pump house	1.20	One Month
RWSS to Mananathavady	Wayanad/ Mananthavady	Repair	Repair and over hauling of 35HP VT Pump set at Mananthavadi Pump house	1.90	One Month

RWSS to Mananathavady	Wayanad/ Mananthavady	Repair	Repair and over hauling of 50HP Submersible Pump set at Mananthavadi Pump house	1.00	One Month
RWSS to Mananathavady	Wayanad/ Mananthavady	Repair	Repair and over hauling of 60HP Submersible Pump set at Mananthavadi Pump house	2.00	One Month
RWSS top Thavinhal	Wayanad/ Mananthavady	Repair	Repair and over hauling of 75HP Submersible Pump set at Mananthavadi Pump house	2.50	One Month
RWSS to Thirunelly	Wayanad/Mananthavady	Repair	Repair and over hauling of 75HP V.T. Pump set at Palvelichami Pump house	2.50	One Month
ARWSS to Vemom Nallooradu and Porunnanoore Villages	Wayanad/ Mananthavady	Repair	Repair and over hauling of 75HP Submersible Pump set at Koodalakadavu Pump house	2.50	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Overhauling of 75 HP VT pump set at Kottoor	2.50	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Repair and Overhauling of 10 HP Centrifugal pump set at Thomattuchal	0.40	One Month
RWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 20 HP submersible pump set at Kuttikaitha	1.00	One Month
RWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 30 HP submersible pump set at Kuttikaitha	1.80	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 100 HP VT pump set at Muthanga	5.00	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 80 HP VT pump set at Muthanga	3.00	One Month

CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 50 HP centrifugal pump set No.1 at TP Nirappath	1.80	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 50 HP centrifugal pump set No.2at TP Nirappath	2.00	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 5 HP centrifugal pump set (1no)&2.5 HP (4NOS.) at TP Nirappath	1.00	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Repair andOverhauling of35 HP centrifugal pump set no.1 in Booster pump house at Vadachira	2.25	One Month
CWSS to S.Bathery Noolpuzha	Wayanad/ S.Bathery	Repair	Repair andOverhauling of35 HP centrifugal pump set no.2 in Booster pump house at Vadachira	2.25	One Month
WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 60HP VT pump set no.1 at Mathurvayal	2.00	One Month
WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 60HP VT pump set no.2 at Mathurvayal	2.00	One Month
WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 60HP VT pump set no.3 at Mathurvayal	2.00	One Month
WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 60HP Centrifugal pump set no 1.at booster pump house Cheengode	1.00	One Month
WSS to Poothady	Wayanad/S.Bathery	Repair	Repair andOverhauling of 60HP Centrifugal pump set no 2.at booster pump house Cheengode	1.00	One Month
WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 60HP Centrifugal pump set no 3.at booster pump house Cheengode	1.00	One Month

WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 40HP Centrifugal pump set no 1 .at TP Athirattukunnu	0.80	One Month
WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 40HP Centrifugal pump set no 2 .at TP Athirattukunnu	0.80	One Month
WSS to Poothady	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 40HP Centrifugal pump set no 3 .at TP Athirattukunnu	0.80	One Month
CWSS to Pulpally&Mullankolly	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 60HP VT pump set no.1 at Marakadave	3.50	One Month
CWSS to Pulpally&Mullankolly	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 60HP VT pump set no.2 at Marakadave	2.25	One Month
CWSS to Pulpally&Mullankolly	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 75HP Centrifugal pump set no.1 at TP Kabanigiri	1.80	One Month
CWSS to Pulpally&Mullankolly	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 75HP Centrifugal pump set no.2 at TP Kabanigiri	1.80	One Month
RWSS to Saisimala	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 20HP Submersible pump set no.1 & II at Sasimala	1.50	One Month
RWSS to Seethamount	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 20HP Submersible pump set no.1 at Seethamount	0.80	One Month
RWSS to Seethamount	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 10HP Submersible pump set no.11 at Seethamount	0.40	One Month
RWSS to Meenangadi	Wayanad/ S.Bathery	Repair	Repair andOverhauling of 15HP Submersible pump set no.11 at Meenangadi	0.80	One Month
RWSS to Meenangadi	Wayanad/ S.Bathery	Repair	Overhauling of 25HP Submersible pump set no.1 at Meenangadi	1.50	One Month

RWSS to Kottathara	Wayanad/ Kalpetta	Repair	Repair to 35 HP VT Pump set	1.75	One Month
RWSS to Kalpetta	Wayanad/ Kalpetta	Repair	Repair to 25 HP submersible motor and pum set	1.50	One Month
RWSS to Pinangode	Wayanad/ Kalpetta	Repair	Repair to 25 HP submersible motor and pum set	1.50	One Month
RWSS to Kottathara	Wayanad/ Kalpetta	Repair	Overhauling of 20 HP 2 nos. submersible pump set at Kottathara	1.00	One Month
RWSS to Kokkuzhi	Wayanad/ Kalpetta	Repair	Overhauling of 20 and 25 HP submersible pump set at Kokkuzhi	1.25	One Month
RWSS to Muttil Zone II	Wayanad/Kalpetta	Repair	Overhauling of 25 HP 2 nos. submersible pump set at Kottathara	1.50	One Month
RWSS to Muttil Zone III	Wayanad/ Kalpetta	Repair	Overhauling of 20 HP 2 nos.and 25 HP submersible pump set at Kottathara	2.00	One Month
RWSS to Kariyampady	Wayanad/ Kalpetta	Repair	Overhauling 20HP stage pump - 3nos.	1.50	One Month
RWSS to Valiyapara	Wayanad/ Kalpetta	Repair	Overhauling of 15 and 20HP submersible pump set	0.75	One Month
RWSS to Valiyapara	Wayanad/ Kalpetta	Repair	Overhauling of 20 HP stage pump set	0.40	One Month
RWSS to Vythiri	Wayanad/ Kalpetta	Repair	Overhauling 20HP submersible pump set 2 nos.	1.00	One Month
RWSS to Chundale	Wayanad/ Kalpetta	Repair	Overhauling 20HP submersible pump set and 15HP Stage pump	0.80	One Month
RWSS to Moopainad	Wayanad/ Kalpetta	Repair	Overhauling 35HP VT Pump set - 2nos	1.50	One Month
Procurement of pipes and specials for urgent repair of pipe lines					

For all schemes under this Division	Wayanad	Repair	Supply of various size of pipes, valves and specials	30.00	One Month
Increasing pumping hours in small schemes					
CWSS to Pulpally&Mullankolly	Wayanad/ S.Bathery	Repair	Supply of operators for Additional shift for one month	0.2	One Month
ARWSS to Ambalavayal	Wayanad/ S.Bathery	Repair	Supply of operators for Additional shift for one month	0.2	One Month
WSS to Poothadi	Wayanad/ S.Bathery	Repair	Supply of operators for Additional shift for one month	0.3	One Month
CWSS to S.Bathery Noolpuzha at Kalluvayal	Wayanad/ S.Bathery	Repair	Supply of operators for Additional shift for one month	0.2	One Month
RWSS to Muttill-Zone-III	Wayanad/ Kalpetta	Repair	Supply of operators for half shift for one month	0.10	One Month
			Total	504.14	

District Name: Thiruvananthapuram (Urban)						
Water Works Sub Division, Kuriathy.						
1	Maintenance of KTM	Thiruvananthapuram	Repair	Repair of flood damaged alum & lime mixing agitator unit at the WTP	0.88	30 days
2	Maintenance of KTM	Thiruvananthapuram	Repair	Urgent replacement of alum & lime mixing agitator unit at WTP, Vandithadam	1.15	30 days
3	RWSS to Pachalloor	Thiruvananthapuram	Repair	Fixing Repair panel board at Pachalloor pump house	0.47	30 days

4	Maintenance of TWSS	Thiruvananthapuram	Repair	Rewinding and reconditioning of 90 HP open well submersible pump set at Thiruvallam pump house	2.18	30 days
5	Maintenance of KTM	Thiruvananthapuram	Repair	Rewinding & reconditioning 20 HP submersible pump set at Kakkamoola	0.99	30 days
6	Maintenance of KTM	Thiruvananthapuram	Repair	Rewinding & reconditioning 60 HP submersible pump set at Kayal pump house	1.43	30 days
7	Maintenance of TWSS	Thiruvananthapuram	Repair	Repairing, rewinding & overhauling of 100 HP slipring motor at Thiruvallam pump house	1.44	30 days
8	RWSS to Pachalloor	Thiruvananthapuram	Repair	Interconnection works at Thiruvallam for connecting JNNURM line to Pachalloor area	1.00	30 days
9	Maintenance of KTM	Thiruvananthapuram	Repair	Relaying 800m, 200mm CI pumping main from Kayal pump house	1.00	45 days
10	Maintenance of KTM	Thiruvananthapuram	Repair	Repair of Kuzhy pump house	10.00	45 days
11	Maintenance of TWSS	Thiruvananthapuram	Repair	Procuring 100 HP Centrifugal pump at Thiruvallam pump house	10.00	45 days
12	1) Maintenance of KTM	Thiruvananthapuram	Repair	Providing standby pump sets at Vandithadam plant 25 HP & 40 HP	8.00	45 days
13	2) RWSS to Pachalloor	Thiruvananthapuram	Repair	Providing standby pump sets at Kuzhy pump house and Pachalloor pump house 22.5 HP	9.00	45 days
14	Maintenance of KTM	Thiruvananthapuram	Repair	Repacking filter media in the water treatment plant at Vandithadam	7.00	45 days
15	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying 200mm PVC pipe line from Iramuttom (JICA tank) to Puthenkotta	10.55	45 days

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

28	Maintenance of TWSS	Thiruvananthapuram	Repair	Providing interconnection between 1118 MS JICA pipeline and 600mm existing CI pipeline at Poojapura for improving W.S to Poojapura/Karamana areas	10.00	30 days
29	Maintenance of TWSS	Thiruvananthapuram	Repair	Purchasing 5000 liter water tanker 2 nos to ensure water supply during drought season	16.00	45 days
30	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacement of undersized main from Thoppumukku to Vellaikadavu road - 2000m	25.00	45 days
31	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing choked CI pipeline at Karamana - Thaliyal road	15.00	45 days
32	Maintenance of TWSS	Thiruvananthapuram	Repair	Altering damaged and undersized pipe main along Kattachal in Nedumcaud ward - 400m	2.80	30 days
33	RWSS to Nemom	Thiruvananthapuram	Repair	Supplying 60 HP pumpset to Thrikannapuram pump house for Santhivila Scheme	12.00	45 days
34	RWSS to Nemom	Thiruvananthapuram	Repair	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	Repair	Providing additional vending point at PTP	15.00	45 days
Water Works North Sub Division Kowdiar						

36	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacement of 7.5 HP centrifugal pump set at Cliff house pump house	2.50	45 days
37	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying 90mm PVC along Kunnath Temple lane 1000m	6.00	45 days
38	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying 75mm PVC at Kaithavilakam - Peroorkada - 200m	1.50	30 days
39	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying 75mm PVC at Devi Nagar - Mannamoola 200m Kaithavilakam - Peroorkada - 200m	1.50	30 days
40	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	Laying 63mm PVC at Indira Nagar - NV Nagar 300m	2.00	30 days
42	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing damaged 150mm AC from Arasumoodu Jn - Thampuram mukku - 150m (Tar restoration -20 L)	25.00	30 days
43	Karikkakom WSS	Thiruvananthapuram	Repair	Replaced damaged AC line along Karikkakam - Karikkakam Temple - 1200m	6.00	45 days
44	RWSS to Powdikonam	Thiruvananthapuram	Repair	Interconnecting Keraladithyapuram line with distribution of Powdikonam scheme	0.60	30 days

45	Karikkakom WSS	Thiruvananthapuram	Repair	Digging of tube well and providing pump set at Karikkakom pump house	6.00	30 days
46	Maintenance of TWSS	Thiruvananthapuram	Repair	Supply and erection of 15 HP pump set at Prasanth Nagar	5.00	45 days
47	Maintenance of TWSS	Thiruvananthapuram	Repair	Improving water supply at Gandhi Nagar Manivila by providing Repair pipe line from Manvila tank	5.00	30 days
48	Maintenance of TWSS	Thiruvananthapuram	Repair	Providing interconnection to Pangappara Sangeetha Nagar from Ambedkar puram 500m 110 PVC pipe	2.00	30 days
49	Maintenance of TWSS	Thiruvananthapuram	Repair	Providing Repair connection to W.S. line to Savarkar Colony Ambedkarpuram	1.20	30 days
50	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	Interconnection of JBIC line with Repairly distribution	10.00	45 days
52	Maintenance of TWSS	Thiruvananthapuram	Repair	Valve Chambers	18.90	45 days
53	Maintenance of TWSS	Thiruvananthapuram	Repair	Marikkar lane 63mm PVC line 125m	0.50	30 days
54	Maintenance of TWSS	Thiruvananthapuram	Repair	Pipeline extension to Chshire home E lane	0.60	30 days
Water Works Central Sub Division, Palayam						

55	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	Interconnectin existing 315 HDPE line to the 250mm HDPE line at Medical College sump	1.50	30 days
57	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	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	Repair	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	Repair	Construction of Repair valve chambers and raising the existing valve chambers	8.00	45 days
61	Maintenance of TWSS	Thiruvananthapuram	Repair	Changing the existing and damaged electric cables in the pump house (Filter House)	0.50	30 days

62	Maintenance of TWSS	Thiruvananthapuram	Repair	Interconnection from 700mm CI line at Vellayambalam to 400mm CI line at Manaveeyam Road	50.00	45 days
63	Maintenance of TWSS	Thiruvananthapuram	Repair	Tanker lorry supply to the following places a. Burma Road, Avittom Road, Chennilodu	2.20	30 days
64	Maintenance of TWSS	Thiruvananthapuram	Repair	Tanker lorry supply to the following places b. Hiltop Colony near KIMS Hospital	2.20	30 days
65	Maintenance of TWSS	Thiruvananthapuram	Repair	Interconnection existing 215 HDPE line to the 150mm HDPE line at Pothujanam Road Jn.	1.50	30 days
66	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying Repair 110mm PVC line from Museum Junction to RKV lane (550m)	4.00	30 days
67	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying rider main at the back side of Titanium Factory using 110mm PVC pipe (400m)	8.00	30 days
68	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying pipe line extension at Tutors lane using 160mm PVC pipe (1200) statue area	12.00	45 days
69	Maintenance of TWSS	Thiruvananthapuram	Repair	Construction of valve chambers and fixing Repair valves at different locations (Total 22 sites X 63,000/each)	13.86	45 days

70	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing the damaged AC pipeline using 110mm/90mm PVC pipe along Chakka, Karikkakam area 2000m	9.00	45 days
71	Maintenance of TWSS	Thiruvananthapuram	Repair	Rider main seacillakam - Vettukadu are using 110mm PVC pipe - 500m	8.00	30 days
72	Maintenance of TWSS	Thiruvananthapuram	Repair	Laying existing at Chakka - Enchakal road 2500m using 200mm PVC pipe	40.00	30 days
				<u>TOTAL</u>	<u>754.16</u>	
	<u>Replacing and damaged pipes</u>					
73	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	Replacing 150mm AC line along Oonnampara to Poomalliyoorkonam with 160 PVC - 300m	7.00	15 days
75	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 50mm/40mm/25mm GI pipe with 110mm PVC pipe, 2000m at Thoppumukku - Vellaikadavu road	28.00	45 days
76	Maintenance of TWSS	Thiruvananthapuram	Repair	Rehabilitation of WS line along Karamana - Thaliyal road - replacement of 100mm CI chocked line for 1500 m	15.00	30 days
77	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing chocked 200 mm CI line in Bangladesh Colony to Valiyathura with 200 PVC - 400m	3.40	15 days
78	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 100 mm AC line along Mosque lane, Thampanoor with 110 PVC - 900m	3.25	15 days

79	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 125mm AC line along Bakery - KBSC jn (Paris road) with 160 PVC - 600m	6.50	15 days
80	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 50mm GI line along Lenin Nagar with 75 PVC - 100m	1.00	10 days
81	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 100/125mm AC line along Rajiv Nagar with 110/140 PVC - 600m	5.70	15 days
82	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing existing 500/400 Premo by laying 500 DI+ 160 PVC - 800	68.80	45 days
83	Maintenance of TWSS	Thiruvananthapuram	Repair	WSS to Nemom- replacing 200mm AC pumping main with 200 mm PVC for 1000m	13.00	15 days
84	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	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	Repair	Replacing 100 mm AC line along Muttakkadu road, Thampanoor with 110 PVC - 800m	3.50	15 days
87	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 50mm GI line along Aavaduthura with 90 PVC - 500m	2.60	15 days
88	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing damaged 75mm PVC line along Neelakanta colony with Repair 75 PVC - 500m	1.75	15 days
89	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 150mm AC line along Arasumoodu - Vazhappana-Kuzhivila with 160 PVC - 3000m	45.00	45 days
90	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 100mm AC line along Golfinks- Pipinmoodu with 160 PVC - 1000m	15.00	30 days

91	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing substandard 400mm HDPE Theerapadham line along Muttada - Medical College reach (2.00km)	150.00	45 days
92	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	Replaing 50mm GI pipe with 110mm PVC at Mukkola-Kachani road - 1000 m	12.25	30 days
94	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 50mm GI line along poonthura - Maduvam fishermen colony with 63mm PVC - 200m	0.60	10 days
95	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 50mm GI line in Branch from Muttakkadu road, Thampanoor with 75mm PVC - 1000m	3.00	10 days
96	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 50mm GI line along Chala to Kothuval Street with 90/75mm PVC - 2000m	7.00	30 days
97	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 100mm AC line along Chala pipeline road with 110 PVC - 700m	2.60	10 days
98	Maintenance of TWSS	Thiruvananthapuram	Repair	RWSS to Mulavanakunnu-	1.41	10 days
99	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing existing 100mm AC line by laying 160mm PVC along CSM Nagar & Palottukonam - 2000 m	16.00	30 days
100	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	Replacing 100mm AC with 110mm PVC pipe at Moonnamoodu -	28.25	30 days

				Manalayam road -2000m		
102	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing GI/AC pipe with PVC pipe at Maruthankuzhi zone - 550m	7.00	30 days
103	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 32mm PVC line along Karinkadamukal 1st Branch with 63 PVC - 300m	1.30	10 days
104	Maintenance of TWSS	Thiruvananthapuram	Repair	Replacing 32mm PVC line along Karinkadamukal 2nd Branch with 63 PVC - 200m	0.90	10 days
105	Maintenance of TWSS	Thiruvananthapuram	Repair	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	Repair	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	Repair	Replacing existing 40mm GI line by laying 63mm PVC along Kavuvila lane, Thampanoor - 200 m	0.5	10 days
				TOTAL	866.31	
	Replacing damaged pump sets					
108	RWSS to Kalliyoor-Supply and erection of pumpset at Kayal PH	Thiruvananthapuram	Repair	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	Repair	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	Repair	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	Repair	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	Repair	Centrifugal pump set 10 lps 60m at Killipalam Pump house	1.75	45 days
				<u>TOTAL</u>	<u>17.45</u>	
113	Procurement of specials	Thiruvananthapuram	Repair	Electrical and mechanical spares and pipe specials for various schemes in Thiruvananthapuram Taluk	18.00	40 days
				<u>GRAND TOTAL</u>	<u>1655.92</u>	

District Name: Thiruvananthapuram (Rural 1)						
Sl.No.	Name of Scheme	Location (District/Block)	Whether Repair or Repair	Brief description of works proposed	Estimated cost (Rs. Lakhs) As per latest SoR	Time required for construction (Months)
1	2	3	4	5	6	7
1	RWSS to Uchakkada	Trivandrum/Athiyanno or	Repair	Replacing damaged 200 AC pumping /distribution lines at various places	20.00	45 days

2	RWSS to Kunnathuklal-	Trivandrum/Perumkada vila	Repair	Supply,erction of suitable capacity C/F pump set at Manavari pump house	6.00	45 days
3	RWSS to Kunnathuklal-	Trivandrum/Perumkada vila	Repair	Supply,erction of suitable capacity VT pump set at Pazhamala pump house	12.00	45 days
4	UWSS to Neyyattinkara	Trivandrum/NTAMunicipality	Repair	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/NTAMunicipality	Repair	Supply,erction of suitable capacity VT pump set	8.00	45 days
6	RWSS to Mookkunnimala -	Trivandrum/Nemom	Repair	Supply,erction of suitable capacity C/F pump set	4.50	45 days
7	RWSS to Adimalathura -	Trivandrum/Athiyannoor	Repair	Supply,erction of suitable capacity Submersible pump set	6.50	45 days
8	RWSS to Parachakulam -	Trivandrum/Athiyannoor	Repair	Supply,erction of suitable capacity VT pump set	3.00	45 days
9	UWSS to Neyyattinkara	Trivandrum/NTAMunicipality	Repair	Cleaning of raw water wel at Neyyattinkara raw water pump house	4.00	30 days

10	RWSS to Marukil Maranalloor	Trivandrum/Nemom	Repair	Cleaning of well at Maranalloor pump house	5.00	30 days
11	RWSS to Valiyakulam-	Trivandrum/Parassala	Repair	Replacing the pumping main of 110 mm pvc and 90 mm pvc pipe at Kanjiramoottukadavu	17.00	45 days
12	RWSS to Kumily -	Trivandrum/Athiyannor	Repair	Laying 90 mm PVC parallel line from Korukala to Vandikkadamukku	3.00	30 days
13	RWSS to Uchakkada -	Trivandrum/Athiyannor	Repair	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	Repair	Cleaning the well by removing silt inside the intake well at Mangattukadavu pumphouse	4.00	15 days
15	UWSS to Neyyattinkara	Trivandrum/NTAMunicipality	Repair	Ooroottukala zone-Replacement of damaged pipe line	7.00	30 days
16	RWSS to Kumily -	Trivandrum/Athiyannor	Repair	Cleaning of raw water and clear water wells	2.50	15 days
17	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	Cleaning of well	1.50	15 days
18	WSS to Vizhinjam -	Trivandrum/Athiyannor	Repair	Providing Micro filter unit of 3 mld	134.25	45 days

19	WSS to Poovar - Karichal -	Trivandrum/Athiyanno or	Repair	Providing Micro filter unit of 3 mld	159.80	45 days
20	WSS to Dhanuvachapuram -	Trivandrum/Parassala	Repair	Providing valves at various places	1.00	30 days
21	RWSS to Aryancode -	Trivandrum/Perumkada vila	Repair	Cleaning the well and repairs to infiltration gallery	5.00	15 days
22	RWSS to Aryancode -	Trivandrum/Perumkada vila	Repair	Supply, erection of 15 HP submersible pump set -	3.00	30 days
23	WSS Chemboor - Chilambara -	Trivandrum/Perumkada vila	Repair	Providing 15 HP submersible pump set and well cleaning	6.00	30 days
24	WSS to Valiyakulam -	Trivandrum/Parassala	Repair	Replacing 110 PVC pipe lying under the road at 3m depth	4.00	15 days
25	RWSS to Poozhikunnu -	Trivandrum/Parassala	Repair	Supply, erection of 20 HP submersible pump set	4.50	30 days
26	RWSS to Virali - Uchakkada -	Trivandrum/Parassala	Repair	Supply, erection of 7.5 HP submersible pump set	1.50	30 days
27	RWSS to Iyira	Trivandrum/Parassala	Repair	Supply, erection of 7.5 HP submersible pump set	1.50	30 days
28	RWSS to Kuzhinjanvila	Trivandrum/Parassala	Repair	Well cleaning	0.50	30 days

29	RWSS to Kulathummal -	Trivandrum/Vellanadu	Repair	Providing valves in the pump set	1.00	10 days
30	RWSS to Kattakkada -	Trivandrum/Vellanadu	Repair	Replacing damaged 75mm PVC pipes - 500m	2.00	15 days
31	RWSS to Kallikkadu -	Trivandrum/Perumkada vila	Repair	Supply and erection of 20 HP submersible pump set	4.00	30 days
32	RWSS to Aralummodu -	Trivandrum/Nemom	Repair	Supply and erection of 20 HP submersible pump set	4.00	30 days
33	WSS to Mookkunnimala -	Trivandrum/Nemom	Repair	Supply and erection of 20 HP submersible pump set	4.00	30 days
34	TWSS to Nemom portion	Trivandrum/Nemom	Repair	Electrical re-wiring at Nedinjil pump house	3.00	10 days
35	RWSS to Kumily -	Trivandrum/Athiyannor	Repair	Supply and erection of 25 HP submersible pump set	5.00	30 days
36	RWSS to Kumily -	Trivandrum/Athiyannor	Repair	Replacing damaged valves	1.00	15 days
37	RWSS to Parachakulam -	Trivandrum/Athiyannor	Repair	Supply, erection and commissioning of 10 HP submersible pump set	2.00	30 days
38	RWSS to Parachakulam -	Trivandrum/Athiyannor	Repair	Cleaning the well and repairs to the infiltration gallery	2.00	15 days

39	RWSS to Kollakonam -	Trivandrum/Athiyannor	Repair	Supply, erection and commissioning of 25 HP submersible pump set	5.00	30 days
40	RWSS to Kollakonam -	Trivandrum/Athiyannor	Repair	Repaires to the infiltratin gallery	1.00	10 days
41	RWSS to Kottukal -	Trivandrum/Athiyannor	Repair	Cleaning well and repaires to the infiltration gallery	3.00	15 days
42	RWSS to Puthalom -	Trivandrum/Athiyannor	Repair	Supply and erection of 10 HP submersible pump set at Edathodu	2.00	30 days
43	RWSS to Puthalam -	Trivandrum/Athiyannor	Repair	Cleaning the intake well	1.00	10 days
44	RWSS to Uchakkada -	Trivandrum/Athiyannor	Repair	Cleaning well	1.00	10 days
45	RWSS to Venganoor -	Trivandrum/Athiyannor	Repair	Cleaning the well and infiltration gallery	1.50	15 days
46	RWSS to Attaramoola -	Trivandrum/Athiyannor	Repair	Supply and erection of 10 HP submersible pump set	2.00	30 days
47	RWSS to Pulinkudy -	Trivandrum/Athiyannor	Repair	Ceaning well and gallery	1.50	15 days
48	RWSS to Poovar - Karichal -	Trivandrum/Athiyannor	Repair	Cleaning the well and infiltration gallery	1.50	15 days

49	UWSS to Neyyattinkara -	Trivandrum/NTA municipality	Repair	Repaires 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/Perumkada vila	Repair	Cleaning the intake well	3.00	10 days
51	RWSS to Aruvippuram -	Trivandrum/Perumkada vila	Repair	Cleaning well	3.00	10 days
		TOTAL			489.55	
<u>Replacement of damaged pipes</u>						
52	RWSS to Uchakkada -	Trivandrum/Athiyan noor	Repair	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/Athiyan noor	Repair	Replacing damaged 50 pvc with 75 pvc pipe line in Valavunada	8.00	15 days
54	RWSS to Chowara -		Repair	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/Athiyan noor	Repair	Replacing damaged 150 AC with 160 pvc pipe from Pulimkudi Junction to tank site	8.00	15 days

56	RWSS to Pulinkudi	Trivandrum/Athiyan noor	Repair	Replacing damaged 100 AC with 110 pvc pipe from Pulinkudi Junction to Payarumoodu	21.00	30 days
57	RWSS to Pulinkudi	Trivandrum/Athiyan noor	Repair	Replacing damaged 100 AC with 110 pvc pipe from Karichal to Mulloor temple road	150.00	45 days
58	RWSS to Chowara -		Repair	Replacing damaged 63 mm pvc with 75 pvc pipe from Pulluvila Hospital Junction to Alakettiya colony	2.00	10 days
59	RWSS to Chowara		Repair	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/Athiyan noor	Repair	Replacing damaged 100 mm AC pipe with 110 pvc from Uchakkada junction to Sundar junction	40.00	30 days
61	RWSS to Uchakkada -	Trivandrum/Athiyan noor	Repair	Replacing damaged pipe 80 AC with 90 pvc from Uchakkada Payattuvila to Edappalli	6.00	15 days
62	RWSS to Uchakkada -	Trivandrum/Athiyan noor	Repair	Replacing damaged 80 AC with 90 pvc pipe at Vattavila Maruthoorkonam	10.00	15 days
63	RWSS to Uchakkada -	Trivandrum/Athiyan noor	Repair	Replacing damaged 100 mm AC pipe with 110 pvc from Uchakkada junction to Kidarakuzhi	5.00	15 days

64	RWSS to Uchakkada -	Trivandrum/Athiyan noor	Repair	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/Athiyan noor	Repair	Replacing damaged 80 mm AC pipe with 90 pvc from Korukala to Pomguvila	14.00	30 days
66	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 100 mm AC pipe from 110 pvc Nellikkakuzhi to Ettukutty	18.00	30 days
67	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	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/Athiyan noor	Repair	Replacing damaged 50 mm GI pipe line with 63 pvc at Malinamkulam Chundayappettu	4.50	15 days
69	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 75mm HDPE pipe with 90 pvc from Nellikkakuzhi to YMCA road	7.00	15 days
70	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 80 mm AC pipe with 90 pvc at Manaveli Mulluvila road	7.00	15 days
71	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 80 mm AC pipe with 110 pvc at Nellikkakuzhi Manaveli Puruthivila	21.00	30 days

72	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 100 mm GI pipe with 110 pvc at Pananinna college road	7.00	15 days
73	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 80 mm AC pipe with 90 pvc from Kaivanvila to Kannumamoodu	12.00	30 days
74	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 75mm HDPE pipe with 90 pvc from Gurukulam college road Anamaramvalicha	12.00	30 days
75	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	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/Athiyan noor	Repair	Replacing damaged 32 mm GI pipe with 63 pvc at PKSHSS road to Muzhakolkunnu	23.00	45 days
77	RWSS to Kumily	Trivandrum/Athiyan noor	Repair	Replacing damaged 80 mm AC pipe with 90 pvc from Kanjiramkulam to Chani	16.00	30 days
78	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	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/Parassala	Repair	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/Parassala	Repair	Replacing damaged 150 mm AC pipe with 160 pvc from Mannakkallu to Mavilakadavu	14.00	30 days
81	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	Replacing damaged 100 mm AC pipe with 110 pvc from Ptyakala to Plamthottam	35.00	45 days
82	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	Replacing damaged 100 AC pipe with 110 pvc pipe at Kakkadu lane	21.00	45 days
83	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	Replacing damaged 80 mm AC pipe with 90 pvc from Plamthottam Veterinary Hospital	14.00	30 days
84	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	Replacing damaged 100mm AC pipe with 110 pvc from Puthenkada Sehiyon line	23.00	45 days
85	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	Replacing damaged 80 mm AC pipe with 110 pvc from Kalumukom line	29.00	45 days
86	RWSS to Thirupuram -	Trivandrum/Parassala	Repair	Replacing damaged 80 mm AC pipe with 90pvc in Nellivila line	7.00	15 days

87	RWSS to Athiyannoor -	Trivandrum/Athiyan noor	Repair	Relaying under sized 80 GI pipe with 110 pvc from Nellimoodu Grandasala to Mulayanthanni	35.00	45 days
				<u>TOTAL</u>	<u>813.50</u>	
	<u>Replacement of pump sets</u>					
88	RWSS to Thirupuram- supply and erection of pump set.	Trivandrum/Parassa la	Repair	2nos Vertical Turbine pump set 1700 lpm 80m	18.17	45 days
89	RWSS to Kumily- supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	2 Nos Centrifugal pump set 2100 lpm 130 m	18.75	45 days
90	RWSS to Karichal- supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	Centrifugal pump 2200 lpm , 80 m	6.10	45 days
91	RWSS to Karichal- supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	Submerssible pump set 2000 lpm 30 m	5.78	45 days
92	RWSS to Athiyannoor-supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	Centrifugal pump 1500 lpm , 100m	5.26	45 days
93	RWSS to Pulinkudi- supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	Centrifugal pump set 1100 lpm 120m	5.26	45 days

94	RWSS to Kottukal-supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	Vertical Turbine pump set 1350 lpm 90 m	8.19	45 days
95	RWSS to Uchakada-supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	(Pumping to Uchakkada Tank) – Centrifugal pump set 2100 lpm 85m	5.26	45 days
96	RWSS to Uchakada-supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	(Pumping to Panayarakkundu tank) – a Centrifugal pump set 1650 lpm , 110 m	6.04	45 days
97	RWSS to Venganoor-supply and erection of pump set.	Trivandrum/Athiyan noor	Repair	a Centrifugal pump 1650 lpm 110 m	6.02	45 days
98	RWSS to Balarama puram-supply and erection of pump set.	Trivandrum/Nemom	Repair	Vertical Turbine pump set 1500lpm100m	4.94	45 days
99	RWSS to Kunnathukal-supply and erection of pump set.	Trivandrum/Perumk adavila	Repair	a Centrifugal pump 1200 lpm , 95 m	4.15	45 days
100	RWSS to Parassala-supply and erection of pump set.	Trivandrum/Parassala	Repair	–a Centrifugal pump set 420lpm 80m	1.75	45 days
101	RWSS to Parassala-supply and erection of pump set.	Trivandrum/Parassala	Repair	(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	Repair	a Vertical Turbine pump set 766 lpm 140m	7.25	45 days

103	RWSS to Chempoor - Chilampara-supply and erection of pump set.	Trivandrum/Perumk adavila	Repair	Vertical Turbine pump set 500 lpm 70 m	2.72	45 days
104	RWSS to Poozhikunnu-supply and erection of pump set.	Trivandrum/Parassala	Repair	Vertical Turbine pump set 600 lpm 95 m	4.28	45 days
105	RWSS to Valiyakulam-supply and erection of pump set.	Trivandrum/Parassala	Repair	Slow Speed VT pump set 300 lpm 110 m	2.74	45 days
106	NWSS Central Zone-supply and erection of pump set.	Trivandrum/NTAM unicity	Repair	Centrifugal pump 3000 lpm 25 m	2.67	45 days
107	NWSS Central Zone-supply and erection of pump set.	Trivandrum/NTAM unicity	Repair	Centrifugal pump 2500 lpm 25 m	2.51	45 days
108	NWSS Central Zone-supply and erection of pump set.	Trivandrum/NTAM unicity	Repair	Centrifugal pump 3000 lpm 25 m	2.51	45 days
109	NWSS Amaravila Zone -supply and erection of pump set.	Trivandrum/NTAM unicity	Repair	a Centrifugal pump set 2400 lpm 85 m	7.34	45 days
110	NWSS Amaravila Zone -supply and erection of pump set.	Trivandrum/NTAM unicity	Repair	Centrifugal pump set 1100 lpm 85 m	3.13	45 days
111	NWSS Olathanni Zone -supply and erection of pump set.	Trivandrum/NTAM unicity	Repair	Centrifugal pump set 1500 lpm 100 m	4.94	45 days

112	NWSS Olathanni Zone -supply and erection of pump set.	Trivandrum/NTAM unicipality	Repair	a Centrifugal pump set 1000 lpm 100 m	3.62	45 days
113	NWSS Olathanni Zone -supply and erection of pump set.	Trivandrum/NTAM unicipality	Repair	a Centrifugal pump set 625 lpm 100 m	2.47	45 days
114	NWSS Thozhukkal Zone -supply and erection of pump set.	Trivandrum/NTAM unicipality	Repair	Centrifugal pump 1300 lpm 85 m	4.15	45 days
115	NWSS Balaramapuam Zone -supply and erection of pump set.	Trivandrum/NTAM unicipality	Repair	Centrifugal pump set 2nos 1500 lpm 100 m	9.79	45 days
				<u>TOTAL</u>	<u>158.05</u>	
116	Procurement of specials	Neyyattinkara Municipality	Repair	Electrical and mechanical spares and pipe specials for various schemes in Neyyattinkara Taluk	12.00	40 days
				<u>GRAND TOTAL</u>	<u>1473.10</u>	

District Name: Thiruvananthapuram (Rural 2)						
Sl. No	Name of Scheme	Location (Dist/Block)	Whether Repair or Repair	Brief Description of works proposed	Estimated cost (Rs. Lakhs) As per latest SoR	Time required for construction (Months)
	<u>WS Division, Attingal</u>					
1	RWSS to Pulimath	Kilimanoor Block	Repair - line extension	Pipe line extension in Plavode, Pachakkadu line in Pulimath Panchayat	3.75	40 days

2	RWSS to Pulimath	Kilimanoor Block	Repair - line extension	Pipe line extension in Cherukkaram Pullayil line in Pulimath Panchayat	2.192	40 days
3	RWSS to Pulimath	Kilimanoor Block	Repair - line extension	Pipe line extension in Erattachira - Randupara colony in Pulimath Panchayat	0.685	40 days
4	RWSS to Pulimath	Kilimanoor Block	Repair - line extension	Pipe line extension in Panthuvila Thottavaram in Pulimath Panchayat	1.233	40 days
5	RWSS to Koduvazhannoor	Kilimanoor Block	Repair	Well desilting in RWSS to Koduvazhannoor in Pulimath Panchayat	0.35	40 days
6	RWSS to Pulimath	Kilimanoor Block	Repair	Construction of 160mm dia bore well and water supply facilities in Payattingakkuzhy SC colony in Pulimath Grama Panchayat	3.00	40 days
7	RWSS to Pothencode	Pothencode Block	Repair	Well desilting and pond cleaning of RWSS to Pothencode on Pothencode Panchayat	1.735	40 days
8	RWSS to Andoorkonam	Pothencode Block	Repair	Providing Repair CI control valve and valve chamber near Koithoorkonam Pump house in Andoorkonam Panchayat	0.35	40 days
9	RWSS to Andoorkonam	Pothencode Block	Repair	Providing Repair CI control valve and valve chamber near Andoorkonam Pump house in Andoorkonam Panchayat	0.33	40 days
10	RWSS to Mudakkal	Chirayinkeezh Block	Repair	Providing Repair control valves in Mudakkal Panchayat	0.85	40 days

11	RWSS to Mudakkal	Chirayinkeezh Block	Repair	Replacing of damaged pipe line in Madathuvathukkal Ayilam line in Mudakkal Panchayat	0.80	40 days
12	RWSS to Mudakkal	Chirayinkeezh Block	Repair	Replacing of damaged pipe line in Parayadi Ayilam line in Mudakkal Panchayat	2.00	40 days
13	RWSS to Mudakkal	Chirayinkeezh Block	Repair	Providing Repair CI control valve and valve chamber near RWSS to Mudakkal in Mudakkal Panchayat	1.25	40 days
14	RWSS to Mangalapuram	Pothencode Block	Repair - line extension	Pipe line extension to Muttukkonam - Murigamon ward in Mangalapuram Panchayat	1.10	40 days
15	RWSS to Mangalapuram	Pothencode Block	Repair - line extension	Pipe line extension to Edavilakam in Mangalapuram Panchayat	0.80	40 days
16	RWSS to Nagaroor	Kilimanoor Block	Repair - line extension	Pipe line extension to Mamathinkavu to Kanjiramvila Temple in Nagaroor Panchayat	1.00	40 days
17	RWSS to Nagaroor	Kilimanoor Block	Repair	Laying 90mm PVC line along Nagaroor Althara Road	4.65	40 days
18	RWSS to Nagaroor	Kilimanoor Block	Repair	Laying 90mm PVC line along Nagaroor Nedumparambu Road	9.30	40 days
19	RWSS to Nagaroor	Kilimanoor Block	Repair	Laying 110mm PVC line along Nagaroor Thekkinkadu - Sivankovil Road	7.60	40 days
20	RWSS to Nagaroor	Kilimanoor Block	Repair	Construction of 160mm dia bore well and water supply facilities in Payattingakkuzhy SC colony in Nagaroor Grama Panchayat	3.00	40 days

21	UWSS to Attingal	Attingal Municipality	Repair	Laying 90mm PVC line along Kuzhimukku - Kulayarakadavu in ward 28	2.00	40 days
22	UWSS to Attingal	Attingal Municipality	Repair	Laying 50mm GI & 63mm PVC line along Veterinary Hospital in ward 24	0.75	40 days
23	UWSS to Attingal	Attingal Municipality	Repair	Laying 90mm PVC line along Thottavaram in ward 28	3.25	40 days
24	UWSS to Attingal	Attingal Municipality	Repair	Laying 63mm PVC line along Kodumon - Kollampuzha Road in ward 23	1.50	40 days
25	UWSS to Attingal	Attingal Municipality	Repair	Laying 50mm PVC line along Akkaravila - Kulayarakadavu Road in ward 28	1.00	40 days
26	UWSS to Attingal	Attingal Municipality	Repair	Laying 63mm PVC line along Mulliyilkadavu - Kattaykkal Road - Thekkekkara Road in ward 7	1.00	40 days
27	UWSS to Attingal	Attingal Municipality	Repair	Laying 63mm PVC line along Nakramcode - Puthenveedu in ward 9	0.80	40 days
28	UWSS to Attingal	Attingal Municipality	Repair	Laying 90mm PVC line along Mamathikavu - Kanjiramvila Kshethram vare	7.00	40 days
29	RWSS to Sarkarakadakam	Chirayinkeezh Block	Repair	Laying 110mm PVC line along Chirayinkil - Manchadimoodu gate - Sarkara Kshethram - Saradavilasom School Road	10.00	40 days
30	RWSS to Chirayinkeezhu	Chirayinkeezh Block	Repair	Laying 90mm PVC line along Pulunthuruthi- Thekkevila kshethram kadavu (laksham	2.00	40 days

				veedu)		
31	RWSS to Chirayinkeezhu	Chirayinkeezh Block	Repair	Laying 90mm PVC line along Chirayinkil - Padanilam Road	1.55	40 days
32	RWSS to Chirayinkeezhu	Chirayinkeezh Block	Repair	Line extension 63mm PVC line to Angavila to Anayilkaavu	4.20	40 days
33	RWSS to Elakamon	Varkala Block	Repair	Desilting, deepening the well, cleaning gallery, providing side wall to gallery	8.00	40 days
34	RWSS to Edava ()	Varkala Block	Repair	Desilting, deepening the well, rectifying the leakage in OH tank	6.00	40 days
35	RWSS to Aluvila	Varkala Block	Repair	Desilting, deepening the well	4.50	40 days
36	RWSS to Edava (Repair)	Varkala Block	Repair	Desilting, deepening the well	3.00	40 days
37	RWSS to Thottumugham	Varkala Block	Repair	Desilting, deepening the well, providing Repair gallery and allied works	20.00	40 days
38	UWSS to Varkala	Varkala Municipality	Repair	Renovating the idling WSS to Varkala - site cleaning, replacing filter bed, Repair of pump house, desilting well and protection of source	90.00	40 days
39	RWSS to Varkala	Varkala Municipality	Repair	Pump set to booster pump house Varkala - 25HP centrifugal	4.00	40 days
40	RWSS to Varkala	Varkala Municipality	Repair	Pump set to booster pump house Varkala - 40HP centrifugal	6.00	40 days
41	RWSS to Varkala	Varkala Municipality	Repair	Pump set to booster pump house Varkala - 60HP centrifugal	7.80	40 days

42	RWSS to Varkala	Varkala Municipality	Repair	Pump set to booster pump house Varkala - 50HP centrifugal	6.00	40 days
43	RWSS to Varkala	Varkala Municipality	Repair	Electrical system re-wamping	8.00	40 days
44	RWSS to Varkala	Varkala Municipality	Repair	Laying 110mm PVC pipe along Edaparambu road in Varkala Municipality	7.50	40 days
45	RWSS to Varkala	Varkala Municipality	Repair	Replacement of 80mm AC pipe in Varkala by 75mm PVC	6.00	40 days
46	RWSS to Varkala	Varkala Municipality	Repair	Replacement of 700mm AC pipe to 700mm DI - suspecting leakage	18.00	40 days
47	RWSS to Varkala	Varkala Municipality	Repair	Valve fitting in Varkala Municipality	1.00	40 days
48	RWSS to Varkala	Varkala Block	Repair	Replacement of 50mm GI pipe by 63mm PVC pipe in Ottoor Panchayat, Vadasserikonam	2.50	40 days
49	RWSS to Varkala	Varkala Block	Repair	Replacement of 50mm GI pipe by 63mm PVC pipe in Chennamcode, Nellyode	4.00	40 days
50	RWSS to Varkala	Varkala Block	Repair	Replacement of 32mm PVC pipe by 63mm PVC pipe in Cherunniyoor area	2.50	40 days
51	RWSS to Kilimanoor	Kilimanoor Block	Repair - line extension	Extension of pipe line	5.50	40 days
52	RWSS to Karavaram	Kilimanoor Block	Repair - line extension	Extension of pipe line	9.00	40 days
53	RWSS to Kunnathukal		Repair - line extension	Extension of pipe line at Alathur area	6.00	40 days

				<u>TOTAL</u>	<u>306.33</u>	
54	WSS to Navaikulam		Repair	Supply and erection of 1No. 25HP centrifugal pump set	6.00	40 days
55	WSS to Kakkode	Kilimanoor Block	Repair	Valiyakunnu SC habitat in Madavoor Pt. commissioning by laying Repair pipes in place of damaged pipes	3.50	40 days
56	RWSS to Edava	Varkala Block	Repair	Pipe line extension to Edava Pt.	18.00	40 days
57	RWSS to Elakamon	Varkala Block	Repair	Pipe line extension to Elakamon Pt.	18.00	40 days
58	RWSS to Azhoor, Kizhuvillam	Chirayinkeezh Block	Repair	Extension of pipe line in Azhoor Kizhuvillam scheme in coastal wards	95.00	
59	CWSS to Varkala and adjoining villages	Varkala Block	Repair	Pipe line extension in Ottoor Pt.	30.00	40 days
60	CWSS to Varkala and adjoining villages	Varkala Block	Repair	Pipe line extension in Vettoor Pt.	35.00	
		Varkala Block	Repair	Pipe line extension in Cherunniyoor Pt.	30.00	
				<u>TOTAL</u>	<u>235.50</u>	
61	CWSS to Varkala and adjoining villages	Varkala Block	Repair	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	Repair	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	Repair	Supply and erection of 1 no 40HP VT pump set for WSS to Pallikkal	8.00	
64	RWSS to Karavaram Alamcode	Kilimanoor Block	Repair	Supply and erection of 1 no 40HP VT pump set for WSS to Karavaram	8.00	
				<u>TOTAL</u>	<u>57.00</u>	
65	CWSS to Vakkom - Anjengo	Chirayinkeezh Block	Repair	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	Repair	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	Repair	Cleaning the intake pump house and repairing the infiltration gallery	9.00	40 days
68	UWSS to Attingal	Attingal Municipality	Repair	Repairs to Pump sets	20.00	40 days
69	RWSS to Nagaroor	Kilimanoor Block	Repair	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	Repair	Cleaning the well and repairing the infiltration gallery	10.00	40 days
72	RWSS to Mangalapuram	Pothencode Block	Repair	Cleaning the intake well	2.50	40 days

73	WSS to Elakamon	Varkala Block	Repair	Kayalpuram protecting the source by lining to a length of 400m	15.00	40 days
74	WSS to Azhoor, Kizhuvillam	Chirayinkeezh Block	Repair	Extension of pipe line to variuos places	40.00	40 days
75	WSS to Navaikulam	Kilimanoor Block	Repair	Supply, erection and commissioning of 40HP Centrifugal Pump set	5.00	40 days
76		Chirayinkeezh Block	Repair	Thottumugham - Ambedkar colony - Providing Micro Filter 0.50mld	45.00	40 days
				<u>TOTAL</u>	<u>253.50</u>	
	<u>Replacing damaged pipe lines</u>					
77	CWSS to Vakkom-Anjengo	Chirayinkeezh Block	Repair	Replacing 150 mm, 100mm, 80mmAC pipe with 200mm PVC pipe	90.00	40 days
78	CWSS to Varkala -	Varkala Municipality	Repair	Replacing 600mmAC pipe with 600mm MS pipe	945.00	40 days
79	CWSS to Varkala -	Varkala Municipality	Repair	Replacing 500mmAC pipe with 500mm MS pipe	400.00	40 days
80	AWSS to Attingal Municipality	Attingal Municipality	Repair	Replacing 80mmAC pipe with 90mm PVC pipe	12.00	40 days
81	CWSS to Vakkom-Anjengo	Chirayinkeezh Block	Repair	Replacing 200mm HDPE pipe with 200mm MS pipe	7.00	40 days
82	CWSS to Vakkom-Anjengo	Chirayinkeezh Block	Repair	Replacing 150mm, 100mm and 80mm AC pipe with 200mm MS pipe	25.00	40 days
83	AWSS to Attingal Municipality-	Attingal Municipality	Repair	Replacing 80mm AC pipe with 75mm PVC pipe	10.00	40 days

84	AWSS to Attingal Municipality	Attingal Municipality	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	3.50	40 days
85	AWSS to Attingal Municipality-	Attingal Municipality	Repair	Replacing 150mm AC pipe with 160mm PVC pipe	13.00	40 days
86	AWSS to Attingal Municipality-	Attingal Municipality	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	5.00	40 days
87	AWSS to Attingal Municipality-	Attingal Municipality	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	7.50	40 days
88	AWSS to Attingal Municipality-	Attingal Municipality	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	5.00	40 days
89	AWSS to Attingal Municipality-	Attingal Municipality	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	3.00	40 days
90	AWSS to Attingal Municipality-	Attingal Municipality	Repair	Replacing 90mm and 75mm PVC pipe with 110mm PVC pipe	8.35	40 days
91	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	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	Repair	Replacing 80mm AC pipe with 90mm PVC pipe	3.00	40 days
93	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	Replacing 80mm AC pipe with 90mm PVC pipe	2.91	40 days
94	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	Replacing 150mm AC pipe with 160mm PVC pipe	9.90	40 days
95	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	Replacing 63mm PVC 4kg pipe with 63mm PVC 6kg pipe	1.41	40 days
96	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	Replacing 75mm PVC 4kg pipe with 75mm PVC 6kg pipe	1.50	40 days
97	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	Replacing 75mm HDPE pipe with 110mm HDPE pipe	5.00	40 days

98	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	Replacing 75mm HDPE pipe with 75mm PVC pipe	1.00	40 days
99	RWSS to Vellalloor-	Kilimanoor Block	Repair	Replacing 150mm AC pipe with 160mm PVC pipe	1.00	40 days
100	RWSS to Vanchiyoor-	Kilimanoor Block	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	2.24	40 days
101	CWSS to Vakkom-Anjengo-	Chirayinkeezh Block	Repair	Replacing 63mm PVC and 80mm AC pipe with 63mm and 90mm PVC pipe	20.00	40 days
102	RWSS to Mulavanakunnu-	Kilimanoor Block	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	1.41	40 days
103	RWSS to Nellanadu-	Vamanapuram Block	Repair	Replacing 100mm AC pipe with 110mm PVC pipe	5.50	40 days
104	RWSS to Koithoorkonam-	Pothencode Block	Repair	Replacing 80mm and 100mm AC pipe with 110mm PVC pipe	14.00	40 days
105	RWSS to Mangalapuram-	Pothencode Block	Repair	Replacing 80mm and 100mm AC pipe with 110mm and 50mm PVC pipe	5.00	40 days
106	RWSS to Mudakkal-Elamba	Kilimanoor Block	Repair	Replacing 80mm and 100mm AC pipe with 100mm GI, 90mm and 75mm PVC pipe	16.00	40 days
107	RWSS to Mudakkal- Repair	Kilimanoor Block	Repair	Replacing 80mm and 100mm AC pipe with 110mm, 90mm and 63mm PVC pipe	10.00	40 days
108	RWSS to Kadinamkulam-	Pothencode Block	Repair	Replacing 80mm 100mm and 150mm AC pipe with 160mm, 140mm and 110mm PVC pipe	8.00	40 days
109	RWSS to Manjappara-	Kilimanoor Block	Repair	Replacing 80mm AC pipe with 63mm PVC pipe	6.00	40 days

110	RWSS to Andoorkonam-	Pothencode Block	Repair	Replacing 80mm and 100mm AC pipe with 140mm PVC pipe	12.00	40 days
111	CWSS to Varkala-	Varkala Municipality	Repair	Replacing 200mm PVC pipe with 200mm PVC pipe	51.90	40 days
112	CWSS to Varkala-	Varkala Municipality	Repair	Replacing 80mm and 100mm PVC pipe with 110mm PVC pipe	42.45	40 days
113	CWSS to Varkala-	Varkala Municipality	Repair	Replacing 80mm and 100mm PVC pipe with 110mm PVC pipe	23.58	40 days
				<u>TOTAL</u>	<u>1803.15</u>	
	<u>Replacing damaged pump sets</u>					
114	CWSS to Vakkom-Anjengo -supply and erection of pump set.	Chirayinkeezh Block	Repair	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	Repair	a Vertical Turbine pump set 100 lps 112m	37.77	40 days
116	AWSS to Attingal - supply and erection of pump set.	Attingal Municipality	Repair	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	Repair	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	Repair	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.	Vamanapuram Block	Repair	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	Repair	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	Repair	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	Repair	2 Nos Submerssible pump set 8 lps 106 m at Chembumoola pump house	7.25	40 days
123	RWSS to Kadinamkulam -supply and erection of pump set.	Pothencode Block	Repair	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	Repair	a Submerssible pump set 15 lps 54 m at Mangalapuram pump house	3.17	40 days
125	RWSS to Anathazh chira -supply and erection of pump set.	Pothencode Block	Repair	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	Repair	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	Repair	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	Repair	a Submerssible 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	Repair	a Submerssible pump set 10 lps 90 m at Kayalpuram pump house	3.62	40 days
130	RWSS to Edava Repair-supply and erection of pump set.	Varkala Block	Repair	a Vertical Turbine pump set 7 lps 66m at Edava Repair Pump House	2.49	40 days
131	RWSS to Edava -supply and erection of pump set	Varkala Block	Repair	a Submerssible pump set 7.5 lps 74 m at Edava (Pump House) pump house	2.27	40 days
132	RWSS to Sreenivasa puram-supply and erection of pump set.	Varkala Block	Repair	a Submerssible 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	Repair	a Vertical Turbine pump set 6.7 lps 73m at Anakuzhy Pump House	2.49	40 days
134	RWSS to Vadasseri konam -supply and erection of pump set.	Varkala Block	Repair	a Submerssible 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	Repair	a Submerssible 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	Repair	a Submerssible 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	Repair	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	Repair	a Submersible pump set 9 lps 102 m at Madavoor pump house	3.62	40 days
139	RWSS to Vettiman konam -supply and erection of pump set.	Varkala Block	Repair	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.		Repair		0.00	40 days
141	RWSS to Valayente kuzhy -supply and erection of pump set.	Varkala Block	Repair	Submersible pump set 7.5 lps 120 m at Valayantekuzhy pump house	3.62	40 days
142	RWSS to Palachira - supply and erection of pump set.	Varkala Block	Repair	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	Repair	a Submersible pump set 7.5 lps 120 m at Kattuvila pump house	3.62	40 days
				<u>TOTAL</u>	<u>190.51</u>	
144	Procurement of specials	Chirayinkeezh Block	Repair	Electrical and mechanical spares and pipe specials for various schemes in Chirayinkeezh Taluk	<u>10.00</u>	40 days
				<u>GRAND TOTAL</u>	<u>2855.99</u>	

District Name: Thiruvananthapuram (Rural 3)

Sl. No.	Name of Scheme	Location (Dist/Block)	Whether Repair or Repair	Brief Description of works proposed	Estimated Cost (Rs. Lakhs)	Time required for Construction (Months)
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					as per latest SOR.	
1	RWSS to Kuttichal .	TVPM / VELLANAD	Repair	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 / NEDUMANGAD	Repair	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	Repair	RWSS to Tholicode - Relaying 1200M 75mm 6Kg/cm2 PVC distribution pipes from chettachal to Maruthummoode	4.50	30 days
4	RWSS to Panavoor	TVPM / NEDUMANGAD	Repair	RWSS to Panavoor - Desilting the existing well at Attinpuram using mud pump.	1.50	30 days
5	RWSS to Anad	TVPM / NEDUMANGAD	Repair	RWSS to Anad - Desilting the existing well at Arampally using mud pump.	2.00	30 days
6	RWSS to Poovachal.	TVPM / VELLANAD	Repair	RWSS to Poovachal - replacing 125mm HDPE pipe from Elaicode to Kallamam for a length 650M by using 110mm dia PVC.	4.50	40 days

7	RWSS to Tholicode	TVPM / VAMANAPURAM	Repair	RWSS to Tholicode - Relaying 750M 90mm 6Kg/cm PVC diistribution pipes from Erappil-Amappetti road, Parappara-Pulichamala road, and Kulamancode Maruthummoode road.	3.50	45 days
8	RWSS to Kanyakulangara	TVPM / VAMANAPURAM	Repair	RWSS to Kanyakulangara - Supply, errection testing and commissioning of 10 HP, 150 lpm submersible pump set, having totyal head 40m	1.50	45 days
9	RWSS to Tholicode	TVPM / VAMANAPURAM	Repair	RWSS to Tholicode - Supply, errection testing and commissioning of 60 HP, 1250 lpm VT pump set, having totyal head 40m	11.00	45 days
10	RWSS to Panavoor	TVPM / NEDUMANGAD	Repair	RWSS to Panavoor - Construction of infiltration gallery at Attinpuram.	5.00	40 dauys
11	RWSS to Poovachal	TVPM / VELLANAD	Repair	RWSS to Poovachal - supply and errection 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 / VAMANAPURAM	Repair	RWSS to Tholicode - Relaying 450M 90mm 6Kg/cm PVC diistribution pipes from Cheruppani line and Thannimoodu-Thottumukku line.	2.00	40 days

13	RWSS to Tholicode	TVPM / VAMANAPURAM	Repair	RWSS to Tholicode - Relaying 400M 90mm 6Kg/cm PVC diistribution pipes from Anappetti-Planthottam road, Anapetti School-Kannottupara.	2.00	40 days
14	RWSS to Peringamala	TVPM / VAMANAPURAM	Repair	RWSS to Peringamala - Maintenance& desilting of well &amce of existing Gallery and repacking filter media at Kundaalamkuzhy.	8.50	30 days
15	RWSS toVithura	TVPM / NEDUMANGAD	Repair	RWSS toVithura - Maintenance of existing Gallery and repacking filter media	10.00	40 days
16	RWSS to KARAKULAM	TVPM / NEDUMANGAD	Repair	RWSS to KARAKULAM - Desilting the well at Kummi using mud pump	2.50	40 days
17	RWSS to Ponmudi	TVPM / VAMANAPURAM	Repair	RWSS to Ponmudi - Source improvement and collection tank protection works	5.00	40 days
18	UWSS to Nedumangad	TVPM / NEDUMANGAD	Repair	UWSS to Nedumangad - Supply & errection of a pumpset in Seemavila pump house and allied works.	15.00	45 days
19	RWSS to Palode	TVPM / VAMANAPURAM	Repair	RWSS to Palode - Relaying the exsting 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 / NEDUMANGAD	Repair	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 / NEDUMANGAD	Repair	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 / NEDUMANGAD	Repair	UWSS to Nedumangad - Interconnecting pipe line to Housing board area with the Main line	4.00	40 Days
23	RWSS to Aruvikkara.	TVPM / NEDUMANGAD	Repair	RWSS to Aruvikkara - Leak rectification works in Kannamkaram Sump cum Pump house	8.00	40 Days
24	RWSS to Vilappil.	TVPM / VELLANAD	Repair	RWSS to Vilappil- relaying 75mm dia PVC from main road through Priyadarsini road for a length of 300ma length of 500m and shifting house connection.	1.50	40 Days
25	RWSS to Tholicode.	TVPM / VAMANAPURAM	Repair	RWSS to Tholicode - Relaying 400M 90mm 6Kg/cm PVC diistribution pipes from Anappetti-Planthottam road, Anapetti School-Kannottupara.	2.00	40 Days

26	RWSS to Vellanad.	TVPM / VELLANAD	Repair	RWSS to Vellanad - replacing 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	Repair	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	Repair	RWSS to Vellanad - replacing 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	Repair	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	Repair	Thiruvananthapuram WSS - Providing additional drinking water vending points for tanker lorry supply & allied works	4.00	15 days
31	RWSS to Karakulam.	TVPM / NEDUMANGAD	Repair	RWSS to Karakulam - Inter connection works with Nedumangad Scheme	5.00	30 dyas
32	UWSS to Nedumangad.	TVPM / NEDUMANGAD	Repair	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	Repair	WSS to Vellanad - Providing 5mld Micro filter	180.00	45 days

34	WSS to Nedumangad.	TVPM / NEDUMANGAD	Repair	WSS to Nedumangad - Cleaning the intake well and collecting well and leading pipe.	12.00	40 days
35	WSS to Palode.	TVPM / VAMANAPURAM	Repair	WSS to Palode - Cleaning the intake well and repacking the infiltration gallery	13.00	45 days
36	UWSS to Nedumangd municipality .	TVPM / NEDUMANGAD	Repair	UWSS to Nedumangd municipality - replacement of & undersized pipes and extn of pipe lines to various places of Nedumangad Municipality.	8.50	40 days
37	RWSS to Peringamala.	TVPM / VAMANAPURAM	Repair	RWSS to Peringamala - Replacing damaged GI & AC pipes with PVC pipes.	18.00	45 days
38	WSS to Aryanad.	TVPM / VELLANAD	Repair	WSS to Aryanad - Repairs to the infiltration gallery and cleaning the intake well	8.00	40 Days
39	WSS to Uzhamalakka.	TVPM / VELLANAD	Repair	WSS to Uzhamalakkal - Cleaning the well and repairs to gallery & pump House	10.00	45 Days
40	RWSS to Kuttichal.	TVPM / VELLANAD	Repair	RWSS to Kuttichal - Cleaning the well and repairs to the infiltration gallery	10.00	45 days
41	RWSS to Aruvikkara.	TVPM / VELLANAD	Repair	RWSS to Aruvikkara - Replacing the rusted & undersized pipes with PVC pipes for a length of 2.00 KM	15.00	45 days
42	RWSS to Idinjar.	TVPM / VAMANAPURAM	Repair	RWSS to idinjar - Replacing the damaged GI pipes to a length of 400m	5.00	30 days

43	WSS to Vamanapuram.	TVPM / VAMANAPURAM	Repair	WSS to Vamanapuram - Cleaning the well and repairs to the infiltration gallery.	10.00	45 days
44	WSS to Vellanad.	TVPM / VELLANAD	Repair	WSS to Vellanad - Cleaning the well and repairs to infiltration gallery.	8.00	30 days
45	WSS to Kallara - Pangode	TVPM / VAMANAPURAM	Repair	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 / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 1.	11.00	30 days
47	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 2.	9.75	30 days
48	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 3.	10.50	30 days
49	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 4.	10.50	30 days
50	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 5.	11.00	30 days

51	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 6.	12.00	30 days
52	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 7.	10.50	30 days
53	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 8.	12.00	30 days
54	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 9.	11.00	30 days
55	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara - replacement of filtermedia in Bed No. 10.	10.50	30 days
56	Thiruvananthapuram WSS.	TVPM / THIRUVANANTHA PURAM	Repair	Thiruvananthapuram WSS - 72MLD plant at Aruvikkara -supply & installation of Soft starters for Pump Sets - 6 nos.	60.00	45 days
				<u>TOTAL</u>	<u>666.25</u>	
	<u>Replacement of damaged pipes</u>					
57	RWSS to Tholicode	TVPM / VAMANAPURAM	Repair	- 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	Repair	Replacing 500mm Premo by 500mm DI K9 pipe	1563.00	45 days

59	RWSS to Anad	TVPM / NEDUMANGAD	Repair	- Replacing and damaged 150mm AC pipe near CSI, Anad to Anad junction-1000m	11.00	30 days
60	UWSS to Nedumangadu	TVPM / NEDUMANGAD	Repair	Replacing 150mm AC by 350mm DI K9 pipe	293	45 days
61	RWSS to Aruvikkara -	TVPM / VELLANAD	Repair	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	Repair	Replacing 150mm AC Class 10 by 160mm PVC 10kg/cm ² pipe 6000m	150	45 days
63	RWSS to Poovachal	TVPM / VELLANAD	Repair	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 / NEDUMANGAD	Repair	Replacing 100mm AC Class 10 pipe by 110mm PVC 10kg/cm ² pipe 11300m	239	45 days
65	RWSS to Vellanadu	TVPM / VELLANAD	Repair	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	Repair	- 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 / NEDUMANGAD	Repair	- Replacing and damaged 80mm AC pipe in Sakthipuram line for a length of 1200m	5.75	15 days
68	RWSS to Vellanad	TVPM / VELLANAD	Repair	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 / NEDUMANGAD	Repair	Replacing the 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	Repair	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 / NEDUMANGAD	Repair	Replacing and damaged 80mm GI pumping main of Khabaradi line - 1000m	10.00	30 days
72	RWSS to Anad-	TVPM / NEDUMANGAD	Repair	Replacing and damaged 160mm PVC pipe under KSTP tar in Puthanpalam-Moozhy line -2000m	15.00	30 days
73	RWSS to Palode -	TVPM / VAMANAPURAM	Repair	Replacing the existing 30 years 200mm dia AC Cl.10 distribution pipe to 160mm dia 10 Kg/cm2 PVC pipe from Nanniyode to Palode - 2 Km	24.00	30 days

74	RWSS to Tholicode -	TVPM / VAMANAPURA M	Repair	Relaying 1200M 75mm 6Kg/cm ² PVC distribution pipes from chettachal to Maruthummoode	4.50	15 days
75	RWSS to Pannikuzhy -		Repair	Replacing damaged GI distribution pipes and restoration of public taps.	15.00	30 days
76	RWSS to Vellanad	TVPM / VELLANAD	Repair	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 / VAMANAPURA M	Repair	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	Repair	Replacing 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	Repair	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	Repair	Replacing 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 / NEDUMANGAD	Repair	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 / VAMANAPURAM	Repair	Relaying 450M 90mm 6Kg/cm PVC distribution pipes from Cheruppani line and Thannimoodu-Thottumukku line.	2.00	15 days
83	UWSS to Nedumangad-	TVPM / NEDUMANGAD	Repair	Replacing and damaged 110mm PVC under tar in Pulippara - 2 KM	11.00	30 days
84	RWSS to Tholicode -	TVPM / VAMANAPURAM	Repair	Relaying 400M 90mm 6Kg/cm PVC distribution pipes from Anappetti-Planthottam road, Anapetti School-Kannottupara.	2.00	15 days
85	RWSS to Karakulam -	TVPM / NEDUMANGAD	Repair	Relaying 75mm dia PVC distribution line between Karakulam Panchayath office and Amman Nagar - 300M	1.00	10 days
86	UWSS to Nedumangad -	TVPM / NEDUMANGAD	Repair	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	Repair	Relaying 90mm PVC pipe line in Cherutheri Asramam road and Vittiyam 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	Repair	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 -		Repair	Replacing 65mm GI pumping main for a length of 650m & relaying distribution line of 110mm PVC pipe for 650m.	15.00	30 days
				<u>TOTAL</u>	<u>2519.75</u>	
<u>Replacement of damaged pump sets</u>						
90	UWSS to Nedumangad-	TVPM / NEDUMANGAD	Repair	Vertical Turbine pump, discharge of 4774 lpm head of 125 m	33.54	45 days
91	UWSS to Nedumangad-	TVPM / NEDUMANGAD	Repair	Vertical Turbine pump, discharge of 4774 lpm head of 125 m	33.54	45 days
92	RWSS to Aruvikkara-	TVPM / VELLANAD	Repair	2 Nos Submerssible pump set 450 lpm 90 m at Kannamkara pump house.	5.41	45 days
93	RWSS to Anad-	TVPM / NEDUMANGAD	Repair	2 Nos Submerssible pump set 1000 lpm , 90 at Arampally Pump house	10.8	45 days
94	RWSS to Panavoor-	TVPM / VAMANAPURA M	Repair	2 Nos Submerssible pump set 300 lpm 191 m at Attinpuram Pump house	7.2	45 days

95	RWSS to Puruthipara-		Repair	2 nos centrifugal pump 400 lpm75 m	2.81	45 days
96	RWSS to Enchapuri-		Repair	2nos Vertical Turbine pump set discharge 400 lpm head of 118 m	7.16	45 days
97	RWSS to Aryanadu-	TVPM / VELLANAD	Repair	2nos Vertical Turbine pump set , discharge of 1200 lpm head of 80m	12.6	45 days
98	RWSS to Kuttichal-	TVPM / VELLANAD	Repair	Vertical Turbine pump set discharge of1300 lpm head of 125 m	9.45	45 days
99	RWSS to Uzhamala kkal-	TVPM / VELLANAD	Repair	a Vertical Turbine pump set discharge of 1200 lpm head of 120m	9.03	45 days
100	RWSS to Parambinmel konam-		Repair	2 nos centrifugal pump set 300 lpm 60m	2.16	45 days
101	RWSS to Navetti konam-		Repair	a Submerssible pump set 300 lpm 90 m	1.81	45 days
102	RWSS to Peringam mala-		Repair	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 / VAMANAPURA M	Repair	Submerssible pump set 300 lpm 70 m	1.5	45 days
104	RWSS to Vithura-	TVPM / NEDUMANGAD	Repair	a Submerssible pump set 1250 lpm 75 m	6.3	45 days
105	RWSS to Pannikuzhy-		Repair	2nos Submerssible pump 150 lpm 85 m	2.01	45 days
106	RWSS to Palode-	TVPM /	Repair	2nos Vertical Turbine pump set discharge	8.19	45 days

		VAMANAPURAM		1390 lpm head of 45m		
107	RWSS to Manikkal-		Repair	2 Nos Vertical Turbine pump set discharge of 1500 lpm , head of 75m	15.34	45 days
108	RWSS to Vamana puram-	TVPM / VAMANAPURAM	Repair	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 / VAMANAPURAM	Repair	1 no centrifugal pump set 960 lpm 45m	2.05	45 days
				<u>TOTAL</u>	<u>189.64</u>	
110	Procurement of specials	NEDUMANGAD BLOCK	Repair	Electrical and mechanical spares and pipe specials for various schemes in Nedumangad taluk	12.00	40 days
				<u>GRAND TOTAL</u>	<u>3387.64</u>	

ANNEXURE 8 - Damages to power sector - KSEB							
No.	District Name	Nature of damage	Type of work (Loss of poles, wires, transformers etc) and their numbers	Approximate cost as per the schedule of rates of the district (in lakhs)	Actual Expenditure incurred	Committed expenditure as per the norms of NDRF within 30 days (in lakhs)	Total committed expenditure (in lakhs)
1	Thiruvananthapuram	Poles (LT)	30	180000	Work in progress. Bills have not been raised as yet	203400	203400
		Wire (km)	25	52500		59325	59325
		Transformer	2	20000		22600	22600
2	Kollam	Poles (LT)	15	90000		101700	101700
		Wire (km)	16	33600		37968	37968
3	Pathanamthitta	Poles (LT)	55	330000		372900	372900
		Wire (km)	30	63000		71190	71190
		Transformer	4	40000		45200	45200
4	Alappuzha	Poles (LT)	900	540000		6102000	6102000
		Wire (km)	200	420000		474600	474600
		Transformer	30	300000		339000	339000
5	Kottayam	Poles (LT)	260	1560000		1762800	1762800
		Wire (km)	160	336000		379680	379680
		Transformer	5	50000		56500	56500
6	Idukki	Poles (LT)	68	408000		461040	461040
		Wire (km)	56	117600		132888	132888
		Transformer	8	80000		90400	90400
7	Ernakulam	Poles (LT)	89	534000		603420	603420
		Wire (km)	12	25200		28476	28476
		Transformer	11	110000		124300	124300
8	Thrissur	Poles (LT)	73	438000		494940	494940
		Wire (km)	14	29400		33222	33222

		Transformer	3	30000		33900	33900
9	Palakkad	Poles (LT)	15	90000		101700	101700
		Wire (km)	1.5	3150		3559.5	3559.5
10	Malappuram	Poles (LT)	16	96000		108480	108480
		Wire (km)	3.5	7350		8305.5	8305.5
11	Kozhikode	Poles (LT)	28	168000		189840	189840
		Wire (km)	36	75600		85428	85428
		Transformer	1	10000		11300	11300
12	Wayanad	Poles (LT)	211	1266000		1430580	1430580
		Wire (km)	156	327600		370188	370188
13	Kannur	Poles (LT)	113	678000		766140	766140
		Wire (km)	34	71400		80682	80682
		Transformer	5	50000		56500	56500
14	Kasargod	Poles (LT)	165	990000		1118700	1118700
		Wire (km)	23	48300		54579	54579
Total				1,45,28,700		1,64,17,431	1,64,17,431

State Relief Commissioner
Govt. of Kerala



DR.K.G.SUMA
Director (i/c)

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Mob: 9446542283

Fax: 0471-2301190

Email: directorah.ker@nic.in

ANIMAL HUSBANDRY DEPARTMENT
GOVERNMENT OF KERALA
VIKAS BHAVAN, THIRUVANANTHAPURAM

17/07/2013

To
The Principal Secretary to Government
Revenue Department
Government of Kerala

This is to certify that the drugs like Inj.Dextrose, Inj.Dextrose Normal Saline, Inj.Calcium borogluconate, Inj.Vitamin E, Inj.Vitamin A , antibiotics, mineral mixtures with micro nutrients and probiotics are calamity related drugs and is also necessary in situations of flood.

It is also certified that no other fund has been received to Animal Husbandry Department, Kerala from Government of India for carrying out either vaccination or medication to the animals in flood prone areas by any of the schemes.


Director of Animal Husbandry

Utilization Certificate - SDRF

PROFORMA

(A) Statement of earlier released amounts to the State Disaster Response Fund (SDRF/NDRF (In Lakhs)

1	Opening Balance as on 1.04.2012	14077.16
2	Centre share including advance release credited to SDRF	10838.00
3	Corresponding share of State	3613.00
4	Corresponding share of State credited to SDRF	3613.00
5	Amount received under NDRF	3427(a)
6	Cumulative Expenditure as on 31 st March 2013	16793.60
7	Amount transferred to investment account	Nil
8	Amount received from investment account	Nil
9	Closing Balance (1+2+4+5+8)-(6+7)31 st March 2013	11734.56
B	I. Opening Balance: 1 st April 2013	11734.56

1.1 Total investment made out of SDRF as on 31st March 2013

2 Receipt during the current financial year 2013-14

i.	Centre Share	770.00
ii.	State's Share	257.00
iii.	Assistance under NDRF	3427(a)
iv.	Interest earned (including investment made out of SDRF)	NIL (yet to be credited)
v.	Others	Nil
vi.	Arrears of Centre's/State's share if any to be credited to SDRF	NIL (yet to be credited)
vii.	Total (I)) to (VI)	4454.00
viii.	Of which amounts credited to SDRF	4454.00
3	Total amount available in the SDRF 1+2(VIII)	16188.56

4 Total expenditure incurred in conformity with items & norms of SDRF during the year out of the fund

i. As on 30th June 2013 15457.71

Balance available in the fund(3-4) 730.85

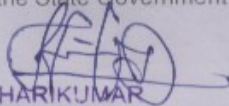
Submission of Annual Report on Natural Calamities:

i. Whether Annual Report on Natural Calamities for the previous year has been sent to Ministry of Home affairs

No(Annual calamity report for 2010-11 and 2011-12 is under preparation and same will be forwarded immediately)

(a) Rs. 34.27 Crores received as Additional Assistance from NCCF for 2012-13 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.

San


D. HARIKUMAR
 Deputy Secretary to Govt.
 Revenue Department
 Govt. Secretariat
 Thiruvananthapuram