

CHAPTER: 6

IRRIGATION

6.0 Irrigation System in Kuchchaveli Division

Water Conservation Structures Commonly referred to as irrigation tanks are distinctive feature of the dry and semi-dry zones of Srilanka. These irrigation tanks have been formed by the construction of earthen dams across valleys of various and size to collect rain and runoff water.

The Distribution of tanks especially there in spacing (density) in a valley does not always appear to be related to the hydrologic condition of the region. It is suggested that the selection of a site for a tank and its size depended more on social factors and site features rather than the hydrologic relationship of the catchment.

Irrigation tanks based on irrigable agricultural land area is divided to three. Such as Major irrigation tank, medium irrigation tanks, minor irrigation tanks

1. Major irrigation tank – Irrigable area more than 1000 Acers
2. Medium irrigation tank - Irrigable area 190 to 1000 Acers
3. Minor irrigation tank - Irrigable area less than 190 - 1000 Acers

6.1 Major irrigation tanks in Kuchchaveli DS Division

S/N	G.N	Name of tank	Capacity (Ac.ft)	Irrigable area		Catchment area	
				(Acrs)	(Ha)	(Sq.Mile)	(Sq.Km)
1.	Periyakulam		1550	330	125.25	3.25	841

Source: Regional Irrigation Department, Trincomalee

6.2 Medium irrigation tanks in Kuchchaveli DS Division

S/N	G.N	Name of tank	Capacity (Ac.ft)	Irrigable area		Catchment area	
				(Acs)	(Ha)	(Sq.Mile)	(Sq.Km)
1.	Periya Kulam	Periya Kulam	1 ,550.00	310	1 25.50	3 .25	8.41
2.	Kumpurupitty East	Maduva Kulam	675.00	300	1 21.46	3.20	8.28
3.	Kuchchaveli	Ethandamurrippu	5 75.00	204	8 2.59	3 .20	8.25
4.	Nilaveli	Periya elumpurikki	6 13.00	204	8 2.59	2 .62	6.75

Source: Department of Irrigation, Trincomalee

6.3 Minor irrigation tanks in Kuchchaveli DS Division

S/N	G.N Division	Name of Minor Tank	Capacity (Ac.ft)	Irrigable Area		Catchment Area	
				(Acs)	(Ha)	(Sq.Mile)	(Sq.Km)
1	Periyakulam	Kankanikulam	144A		152		
2	Iqbal Nagar						
3	Velloor						
4	Nilaveli	Mariyakulam	5	50			
5		Sinnamadurankulam	2	100			
6		Periyamadurankulam	3	50			
7		Sembikkulam	3				
8		Pallachchenai	1/2	150			
9		Nedunkeny	25	215			
10		Kadkadukulam	08	50			
11		Alankulam	10	700			
12		Ninthnkulam	48	150			
13	Gopalapuram	Nil					
14	Irakkandy	Nil					

Source: Department of Agrarian Development, Trincomalee

6.3 Minor irrigation tanks in Kuchchaveli DS Division

S/N	G.N Division	Name of Minor Tank	Capacity (Ac.ft)	Irrigable Area		Catchment Area	
				(Acs)	(Ha)	(Sq.Mile)	(Sq.Km)
25	Irakkakandy	Periya maruthan kulam	112.00	150.00	60.70	1.00	2.59
26	Irakkakandy	Veera paandiyan kulam	123.20	130.00	52.61	0.90	2.33
27		Sembi kulam	45.60	26.00	10.52	0.50	1.29
28	Kumpurupitty south	Vannathi kulam	112.00	110.00	44.51	0.90	2.33
29	Nilaveli	Muriya kulam	45.60	22.00	8.90	0.60	1.55
30	Kumpurupitty south	Samara kulam	70.00	35.00	14.16	0.60	1.55
31	Kumpurupitty south	puliyankulam	61.60	36.00	14.57	0.70	1.81
32	Kumpurupitty East	paalan kulam	52.80	22.00	8.90	0.70	1.81
33	Kumpurupitty south	poovarasen kulam	45.60	15.00	6.07	0.50	1.29
34	Kumpurupitty south	Katkidankukulam	45.60	10.00	4.05	0.40	1.03
35		Sinna kulam	52.80	18.00	7.28	0.50	1.29
36	Kumpurupitty south	Myilayar kulam	112.00	79.00	31.97	0.90	2.33
37	Pulmoodai	Kuman kulam	N/A	N/A		1.20	3.11
38		Kuman kulam	N/A	N/A		0.80	2.07
39		Kayan kulam	N/A	N/A		0.90	2.33
40		Katta kulam	N/A	N/A		0.60	1.55
41	Pulmoodai 04	Amarivayal kulam	N/A	N/A		0.80	2.07
42	Pulmoodai 03	Kallumoodai kulam	N/A	N/A		0.60	1.55
43	Pulmoodai 03	Kanju kulam	48.00	34.00	13.76	0.30	0.78
44	Pulmoodai 03	Thuvarang kulam	52.80	40.00	16.18	0.40	1.03
45	Pulmoodai 04	Pulmoodai kulam	72.00	42.00	16.99	0.30	0.78
46	Pulmoodai 04	Puthuveli kulam	48.00	40.00	16.18	0.30	0.78
47	Pulmoodai 04	Karaiyaveli kulam	38.40	30.00	12.14	0.40	1.03
48	Pulmoodai 04	Aanaivilunthan kulam	52.80	35.00	14.16	0.40	1.03
49	Pulmoodai 04	Puliyankulam	88.00	52.00	21.04	0.50	1.29

Source: Department of Agrarian Development, Trincomalee

6.3 Minor irrigation tanks in Kuchchaveli DS Division

S/N	G.N Division	Name of Minor Tank	Capacity (Ac.ft)	Irrigable Area		Catchment Area	
				(Acs)	(Ha)	(Sq.Mile)	(Sq.Km)
50	Pulmoodai 04	Sinnadan kulam	70.40	65.00	26.30	0.40	1.03
51	Pulmoodai 03	Ottan kulam	108.00	85.00	34.39	0.40	1.03
52	Pulmoodai 01	Aandan kulam	160.00	175.00	70.81	0.80	2.07
53	Pulmoodai 01	Kulikattu kulam	93.60	50.00	20.23	1.20	3.11
54	Pulmoodai 03	Saththannadu kulam	192.00	125.00	50.58	1.80	4.66
55	Pulmoodai 01	Kallituppai kulam	93.60	43.00	17.40	1.30	3.37
56	Pulmoodai 01	Kaataru kulam	N/A	200.00	80.93	6.00	15.54
57	Pulmoodai 01	Kaatu thennai muripu kulam	78.40	56.00	22.66	0.70	1.81
58	Pulmoodai 01	Iththimuripu kulam	96.00	100.00	40.46	1.70	4.40
59	Pulmoodai 01	Paraiyanveli kulam	96.00	40.00	16.19	0.60	1.55
60	Pulmoodai 03	Kollanveli kulam	100.80	47.00	19.02	0.50	1.29
61	Pulmoodai 04	Vannathurai kulam	N/A	197.00	79.72	3.40	8.80
62	Pulmoodai 03	Pannickan vayal kulam	140.00	63.00	25.49	1.30	3.37
63	Pulmoodai 01	Winnagm kulam	100.80	40.00	16.19	0.40	1.03
64	Pulmoodai 01	Vilang kulam	48.00	35.00	14.16	0.40	1.03
65	Pulmoodai 04	Parasanodai kulam	98.00	60.00	24.28	0.80	2.07
66	Pulmoodai 04	Periya maruthang kulam	102.40	55.00	22.26	0.60	1.55
67	Pulmoodai 04	Sinna maruthan kulam	N/A	40.00	16.19	N/A	
68	Pulmoodai 04	Sumulang kulam	168.00	145.00	58.67	1.30	3.37
69	Pulmoodai 04	Palang kulam	N/A	30.00	20.23	N/A	
70	Pulmoodai 04	Nochimootai kulam	24.00	22.00	8.90	0.30	0.78
71	Pulmoodai 03	Aathayanoor kulam	N/A	32.00	12.94	N/A	
72	Pulmoodai 03	Narang kulam	67.20	60.00	24.28	1.30	3.37
73	Pulmoodai 01	Kalmuripu kulam	42.00	44.00	17.80	0.30	0.78
74	Pulmoodai 01	Puliyam kulam	N/A	32.00	12.94	N/A	

Source: Department of Agrarian Development, Trincomalee

6.3 Minor irrigation tanks in Kuchchaveli DS Division

S/N	G.N Division	Name of Minor Tank	Capacity (Ac.ft)	Irrigable Area		Catchment Area	
				(Acs)	(Ha)	(Sq.Mile)	(Sq.Km)
75	Pulmoodai 04	Velang kulam	48.00	38.00	15.38	0.90	2.33
76	Pulmoodai 04	Naayaditha muripu kulam	N/A	110.00	44.51	N/A	
77	Pulmoodai 03	Illupai kulam	2.40	25.00	10.11	N/A	
78	Pulmoodai 03	Muttan kulam	36.00	25.00	10.11	0.30	0.78
79	Pulmoodai 03	Pota kulam	N/A	29.00	11.73	0.40	1.03
80		Pulukanitan kulam	N/A	29.00	11.73	0.90	2.33
81		Romanathan kulam	N/A	N/A		0.90	2.33
82		Sinnaaveli kulam	N/A	N/A		1.20	3.11
83		Vambatukai kulam	N/A	N/A		0.80	2.07
84		Vedlu kulam	N/A	N/A		1.30	3.37
85		Nuthanweli kulam	N/A	35.00	14.16	0.60	1.55
86	Pulmoodai 04	Wattikaparapu kulam	N/A	N/A		0.80	2.07
87		Periyatadel kulam	N/A	N/A		0.80	2.07
88	Pulmoodai 01	Odavi kulam	N/A	N/A		0.80	2.07
89		Nochchi kulam	N/A	N/A		1.10	2.85
90		Nawa kulam	N/A	N/A		0.90	2.33
91	Pulmoodai 01	Navatkerny kulam	N/A	N/A		1.30	3.37
92	Pulmoodai 01	Malaikatty kulam	N/A	35.00	14.16	0.80	2.07
93	Pulmoodai 04	Maladimuddai kulam	N/A	N/A		0.90	2.33

Source: Department of Agrarian Development, Trincomalee

6.4 River Basins in Kuchchaveli Division

S. No.	Name of River	Catchment Area in (Sq.Mile)	Approximate Length (in km)	Precipitation Volume to Sea Cu.Mx 10 ⁶	Discharge Volume to Sea Cu.Mx 10 ⁶
1	Pankulam Aru	382	N/A	594	168
2	Kunchi komban aru	205	N/A	329	77
3	Palak kudi aru	20	N/A	33	8
4	Yan oya	1520	N/A	2269	300
5	Mee Oya	90	N/A	144	28
6	Ma Oya	1024	N/A	1510	306
7	Salapaiaru	N/A	N/A	N/A	N/A
8	Irakakandy aru	N/A	N/A	N/A	N/A

Source: Department of Agrarian Development, Trincomalee