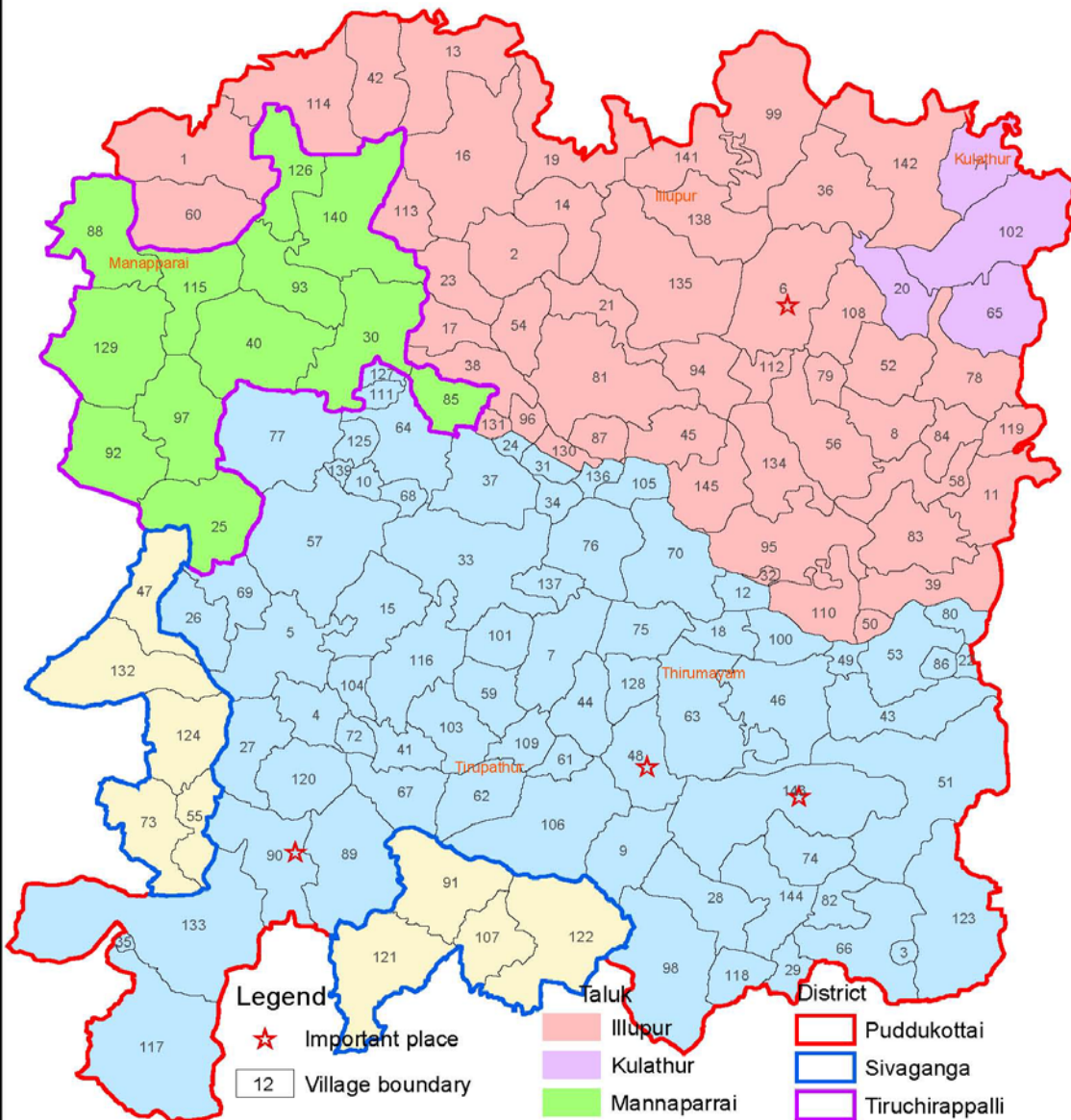


Creation of village boundary based basin analysis – water management



Map Id of Revenue Village Boundary - Thirumayam/Puddukottai (Tamil Nadu) test site



Legend

- ★ Important place
- 12 Village boundary

Taluk

- Illupur
- Kulathur
- Mannapparai
- Tirumayam
- Tirupathur

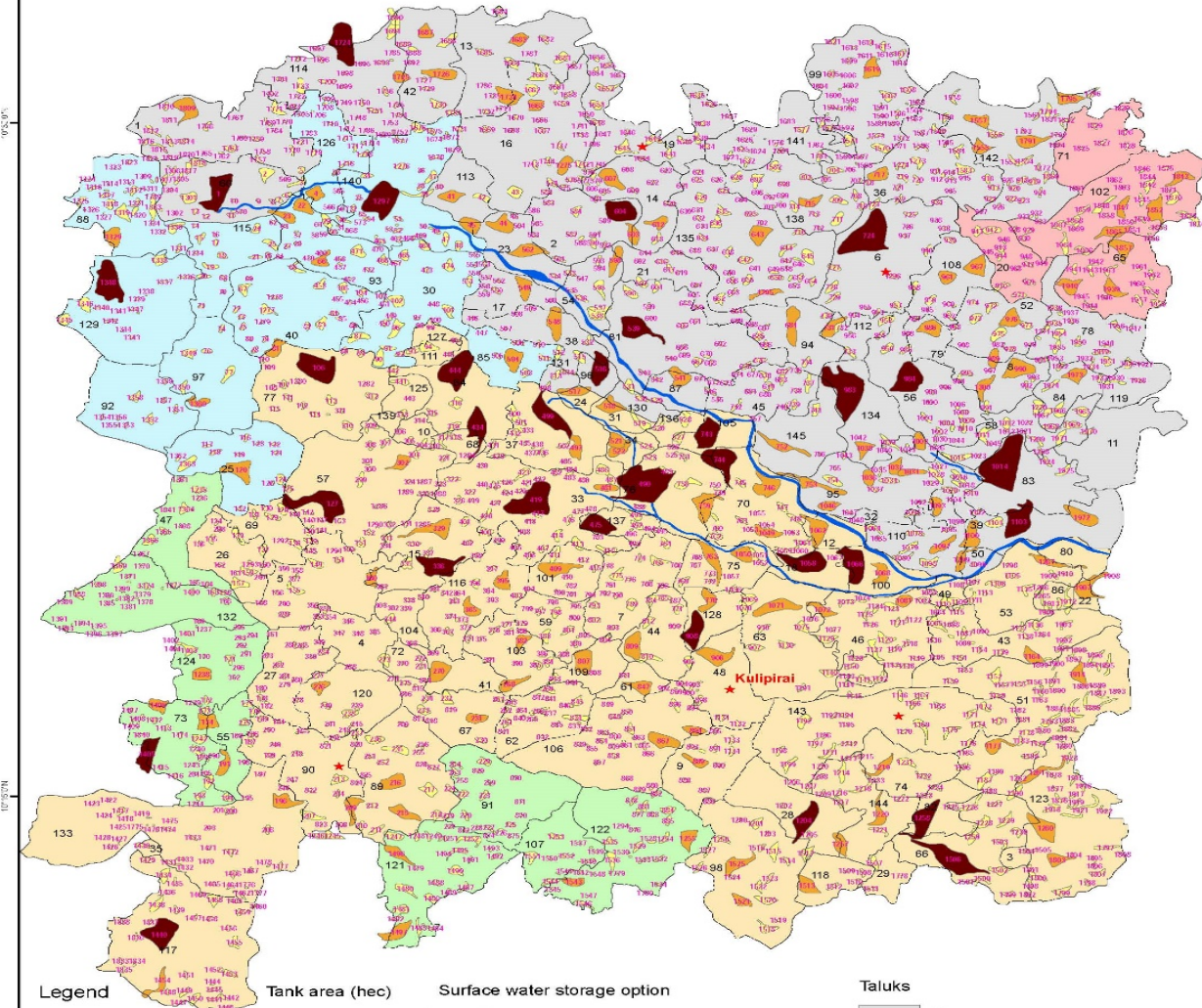
District

- Puddukottai
- Sivaganga
- Tiruchirappalli

Source: - Census of India 2001



Surface water storage strategic option & prioritization for drought management - Tirumayam/Puddukottai (Tamil Nadu) test site



Legend

- ★ Important place
- 12 Village with id
- River

Tank area (hec)

- 59 - 19.79
- 19 - 59
- 0.0017 - 19

Surface water storage option

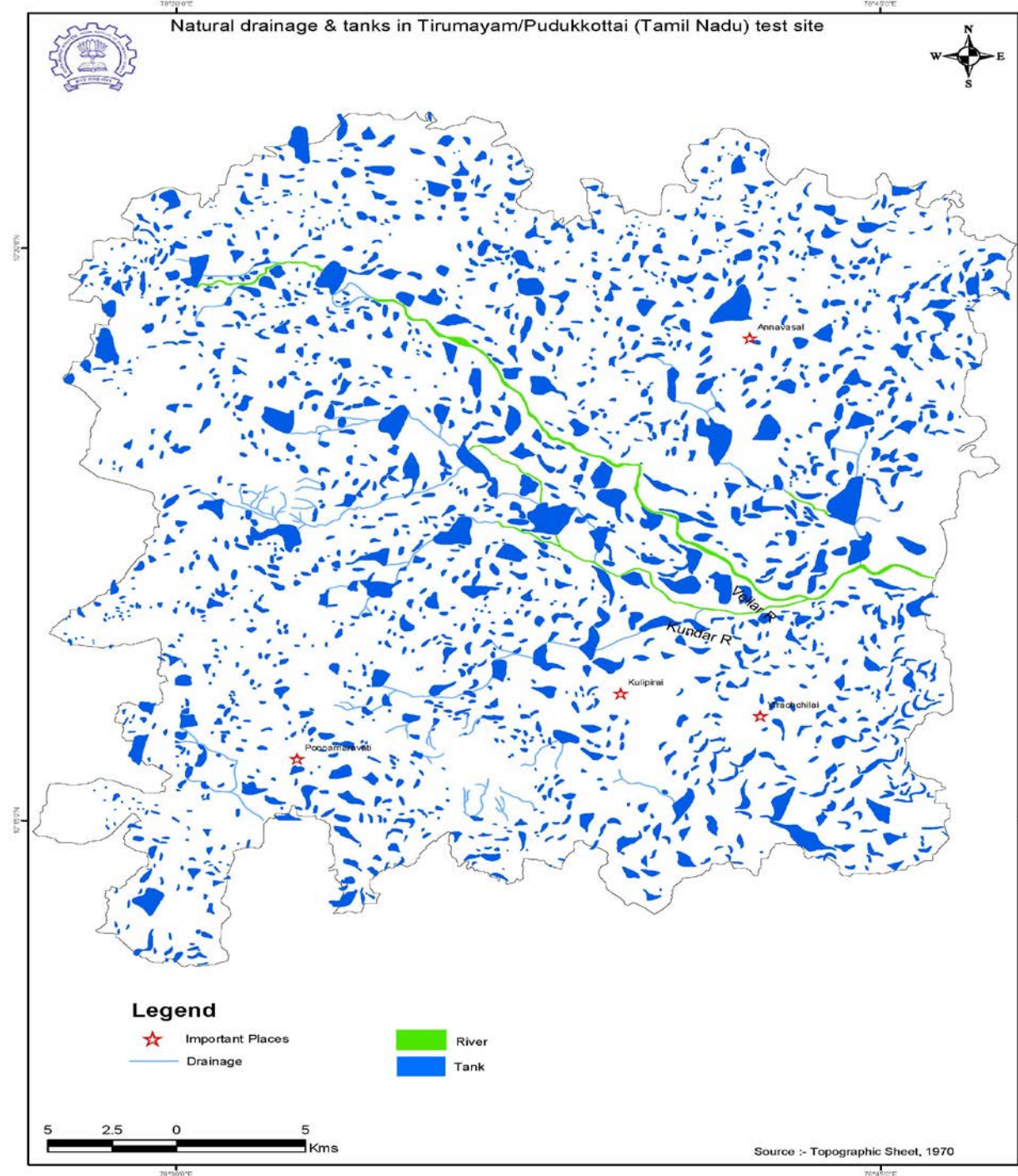
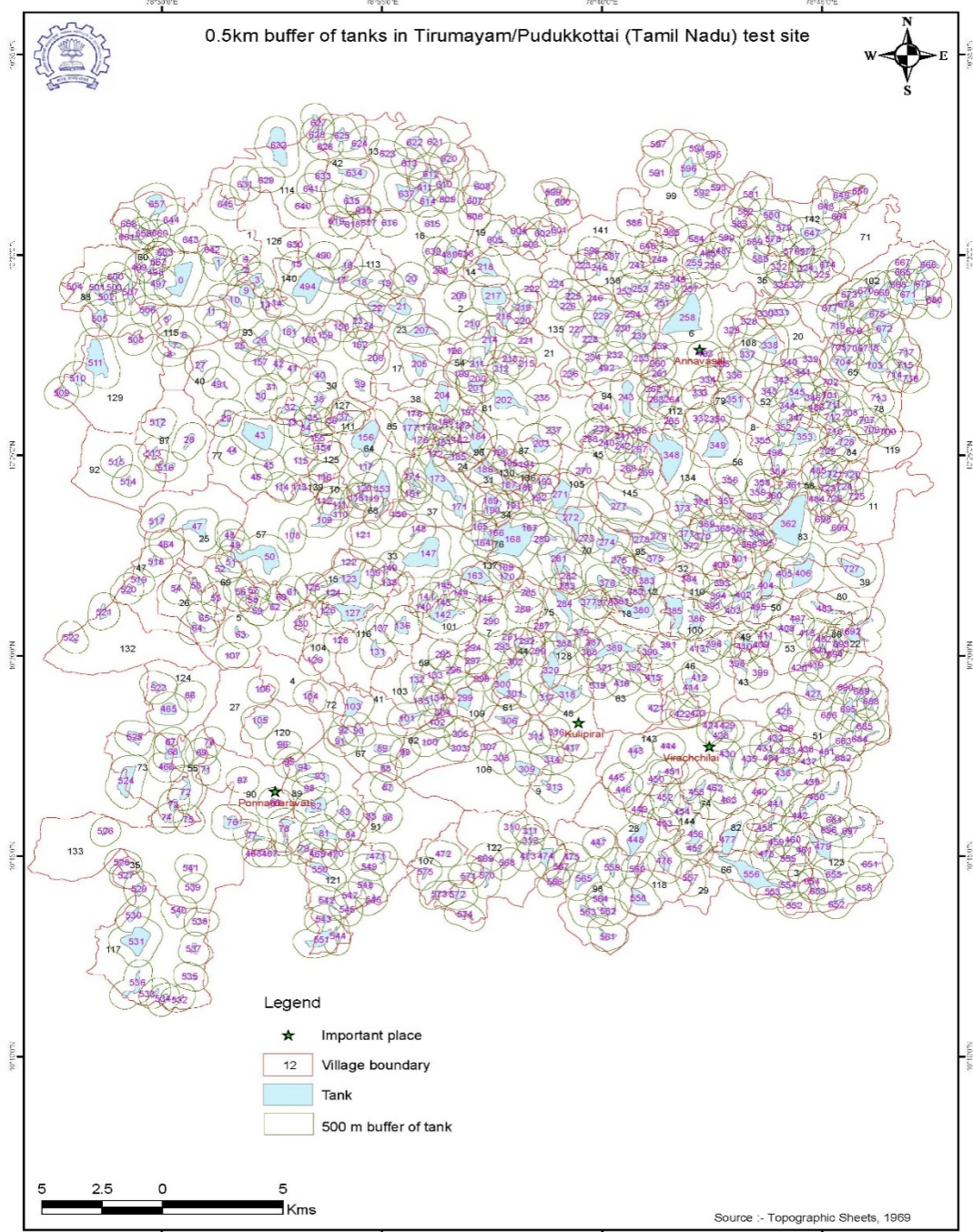
- Initiate capacity enhancement
- Minimal detailing & initiation
- Extensive detailing prior to action

Taluks

- Illupur
- Kulathur
- Mannapparai
- Tirumayam
- Tirupathur

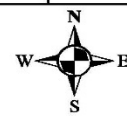
5 2.5 0 5 Kms

Detailing :- Physical assessment / cost effectiveness / beneficiary need of tanks





Cadastral map of Alavayal village (map_id 04)
Tirumayam/Pudukkottai test site Tamil Nadu



Legend

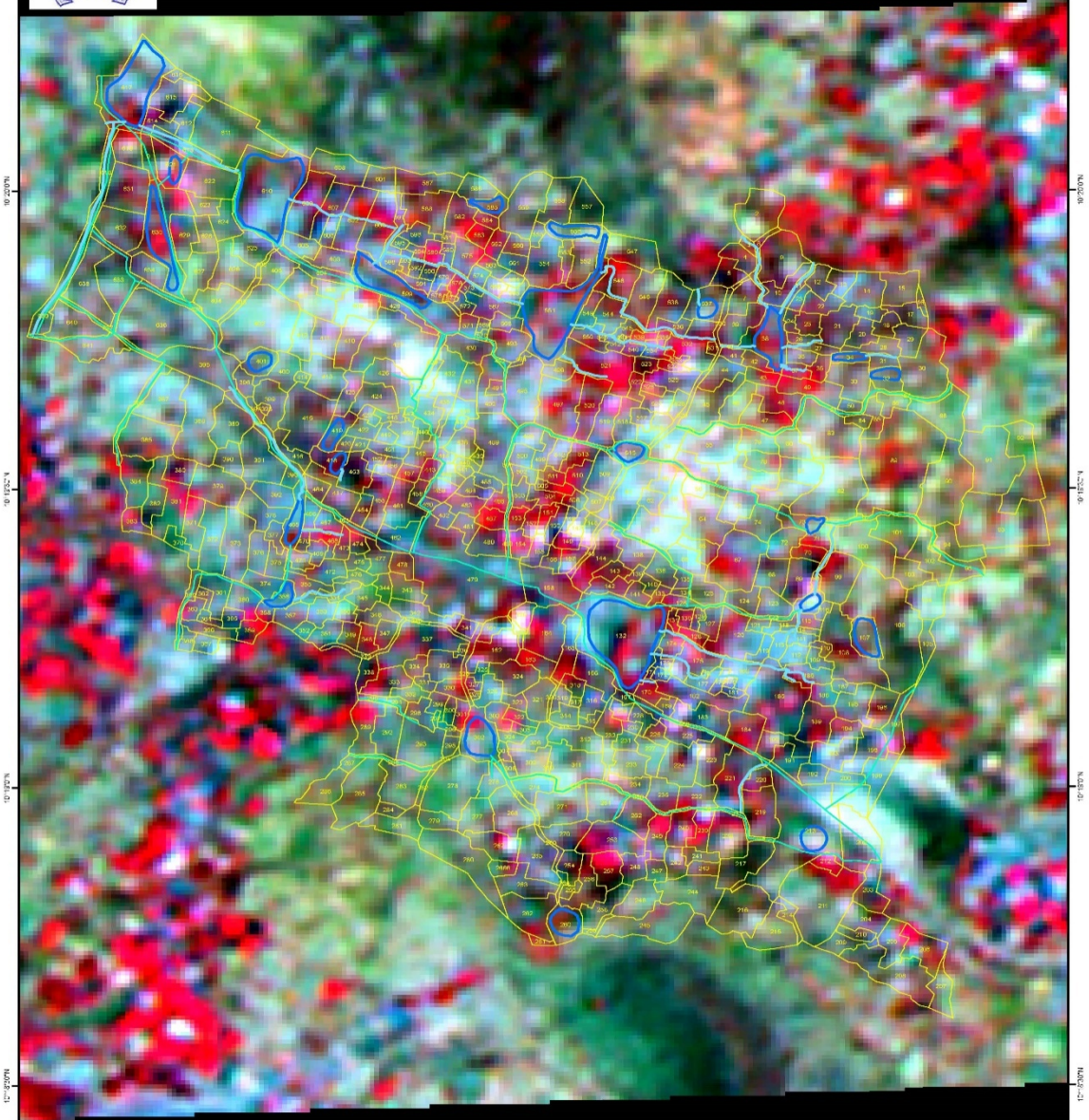
- Nala
- Road
- Tank
- Farm Land

250 125 0 250 500
Meters

Source :- Cadastral map



Cadastral map of Alavayal village (map_id 04) draped over satellite data of
irs1c(20 march 1998) Tirumayam/Pudukkottai test site Tamil Nadu



Legend

- Nala
- Road
- Tank
- Farm Land

250 125 Mts
Meters

Source :- Cadastral map draped over satellite data of irs1c(20 march 1998)

Table 2.0 Land utility & Census information of villages (2001) at Addakkal / Mehaboobnagar test site

Map Id	Vill.id	Village	Area (hec)	House 2001	Population 2001	Irrigated area	Non-irrigation	Cultivable waste	Not for irrigation	Forest
1	00682600	Addakal	1318	879	4384	WE 4.00 TWE 12.00 TK 144.00	666.00	16.00	402.00	0.00
2	00679100	Agaram	210	164	929	WE 6.00 TWE 19.00	169.00	0.00	16.00	0.00
3	00652900	Ajilapur	1105	288	1687	TWE 28.00 TK 80.13 O 61.42	300.00	0.00	47.00	588.01
4	00677900	Allipur	228	220	1086	TWE 53.01	136.78	0.00	5.26	29.00
5	00678800	Almaipalle	433	195	1066	W 12.00 TW 17.00	320.00	40.00	2.00	38.00
6	00639600	Aloor	1509	437	2235	WE 8.00 TWE 108.40	1277.20	27.20	71.20	0.00
7	00655800	Amistapur	1282	1116	5695	TWE 70.01	967.20	0.00	244.43	0.00
8	00656600	Annasagar	397	417	2128	TWE 20.63	310.81	8.09	57.06	0.00
9	00679400	Anpahad (D)	316	0	0	WE 16.00 TWE 19.00	248.00	26.00	0.00	7.00
10	00678500	Anthaipalle	143	81	379	GC 8.00 WE 20.00	94.00	19.00	1.00	0.00
11	00641600	Appaipalle	507	172	838	WE 3.60 TWE 24.40	344.80	12.00	14.00	101.60
12	00679500	Appareddipalle	446	367	1811	WE 13.00 TWE 31.00	387.00	0.00	15.00	0.00
13	00653500	Balsupalle	692	242	1262	GC 167.42 W 12.95 WE 34.41 TWE 91.09	332.31	2.02	22.26	0.00
14	00654200	Baswaipalle	1202	313	1643	TWE 66.28 TK 92.75	840.40	0.00	202.08	0.00
15	00655900	Bhoothpur	1414	902	5110	TWE 129.50	1170.46	1.50	112.54	0.00
16	00640300	Boyapalle (rural)	1352	1544	8036	WE 4.40 TWE 136.00 TK 1.60	1017.60	14.00	12.00	166.40
17	00639700	Burgupalle	1167	572	2542	TWE 162.40	940.80	19.20	30.80	0.00
18	00658400	Chegunta	1013	395	1973	WE 6.87 TWE 115.33	517.99	93.47	279.00	0.00
19	00654000	Chowdarpalle	1216	293	1447	WE 13.76 TWE 82.95 TK 88.29	762.09	35.00	31.08	202.34
20	00680900	Dasaripalle	469	196	1086	TWE 89.00	289.00	0.00	57.00	0.00
21	00653900	Devarkadra	983	1292	7250	WE 8.10 TWE 112.37 TK 202.56	576.89	0.00	82.69	0.00
22	00641900	Dharmapur	1995	762	3732	WE 24.80 TWE 115.60	1018.80	33.20	72.00	704.00

Table 3.0. Land utility & Census information (1991) of villages of Addakkal / Mehaboobnagar test site

Map Id	Village	Area	House 1991	Population 1991	Irrigation	Non-irrigation	Culturable waste	Not available	Forest
1	Addakkal	1318.06	609	3387	W 68.80 TK 209.22	717.58	279.90	42.56	-
2	Agaram	209.63	123	603	W 64.75 TK 84.98	56.90	-	3.00	-
3	Ajilapur	1105.19	269	1421	W 28.00 TK 80.13 O 61.42	300.00	-	47.63	588.01
4	Allipur	227.84	203	1099	W 24.00 TK 32.00	121.00	2.00	19.84	29.00
5	Almaipalle	433.42	146	838	W 19.42 TK 21.04	351.78	-	3.00	38.18
6	Aloor	1509.47	374	2041	WE 20.23 TK 101.17	1317.96	-	70.11	-
7	Amistapur	1281.64	859	4975	TK 149.84	888.92	210.51	32.37	-
8	Annasagar	396.59	368	1978	TK 49.85	292.06	46.59	8.09	-
9	Anpahad	316.46	-	-	W 39.66 TK 75.68	200.84	-	0.28	-
10	Anthaipalle	143.26	131	716	W 21.42 TK 17.81	100.03	-	4.00	-
11	Appaipalle	506.67	155	857	TK 30.35	298.26	65.15	10.12	102.79
12	Appareddipalle	445.56	288	1536	W 24.69 TK 78.10	339.77	-	3.00	-
13	Balsupalle	691.61	167	822	TK 27.52	639.81	2.02	22.26	-
14	Baswaipalle	1201.51	305	1677	TK 159.03	840.40	-	202.08	-
15	Bhoothpur	1414.37	644	4069	TK 94.70	1122.32	83.52	113.83	-
16	Boyapalli	1352.05	1156	6477	W 75.18 TK 186.30 GC 18.39	536.58	-	120.31	415.29
17	Burgupalli	1166.71	386	1981	WE 25.90 TK 77.70	956.35	24.28	82.48	-
18	Chegunta	1013.33	357	1998	N-	638.85	325.39	49.09	-
19	Chowdarpalle	1216.08	229	1102	TK 185.00	762.01	35.65	31.08	202.34
20	Dasaripalle	468.62	147	801	W 48.56 TK 36.46	379.50	-	4.10	-
21	Devarkadra	982.57	1135	6256	GC 222.99	676.89	-	82.69	-
22	Dharmapur	1995.10	662	3299	TK 109.26	844.66	83.77	245.17	712.24
23	Dokur	1358.93	396	2186	GC 51.09	600.50	-	123.43	-
24	Gaddeguda	943.72	389	1892	TK 112.91	266.73	-	14.24	549.84
25	Gariksha	272.35	u-h	u-h	W 49.78 TK 32.78	151.34	-	2.00	36.45
26	Ghanpur	2321.68	1163	6440	W 186.96 TK 641.43	785.16	-	20.44	687.69
27	Goplapur	335.48	117	650	TK 47.08	728.72	45.34	14.34	-
28	Gorita	1376.74	524	2723	-	1018.87	289.35	68.52	-
29	Gouraram	447.58	184	1030	W 80.00 TK 20.00	320.00	2.00	25.58	-
30	Gudibanda	1072.01	346	1837	W 113.31 TK 193.03 TW 63.54	604.16	4.49	93.48	-
31	Hajilapur	768.90	215	1175	TK 163.26	390.00	-	5.61	210.23
32	Hasnapur	1006.05	266	1602	TK 11.46	677.51	258.30	58.78	-
33	Ippalpalle	921.47	233	1126	TK 51.45	534.81	257.02	78.19	-
34	Isrampalle	631.31	161	889	WE 20.23 TK 55.56	480.10	-	75.42	-

Table 5 Comparison of irrigated areas and mode of irrigation- Mehaboobnagar test site

Map Id	Village	Irrigated areas (Acres) (1971)	Irrigated areas (hectare)		
			1981	1991	20
1	Addakkal	W 28 TK 184	W 12.14 TK 206.39	W 68.80 TK 209.22	WE 4.00 TWE 12. TK 144.0
2	Agaram	TK 243	W 4.85 TK 68.80	W 64.75 TK 84.98	WE 6.00 TWE 19.
3	Ajilapur	-	-	W 28.00 TK 80.13 O 61.42	TWE 28. TK 80.13 O 61.42
4	Allipur	W 13 TK 65	WE 4.05 TK 21.04	W 24.00 TK 32.00	TWE 53.
5	Almaipalle	W 15 TK 84	TK 31.57	W 19.42 TK 21.04	W 12.00 TW 17.0
6	Aloor	W 68 TK 268	WE 24.28 TK 143.26	WE 20.23 TK 101.17	WE 8.00 TWE 108
7	Amistapur	W 47 TK 336	WE 20.24 TK 154.99	TK 149.84	TWE 70.
8	Annasagar	W 29 TK 88	W 14.16 TK 48.56	TK 49.85	TWE 20.
9	Anpahad	W 16 TK 115	-	W 39.66 TK 75.68	WE 16.0 TWE 19.
10	Anthaipalle	W 4 TK 84	W 10.12 TK 24.28	W 21.42 TK 17.81	GC 8.00 WE 20.0
11	Appaipalle	W 20 TK 2	TK 24.28 W 27.92	TK 30.35	WE 3.60 TWE 24.
12	Appareddipalle	W 42 TK 151	W 12.54 WE 8.09 TK 62.73	W 24.69 TK 78.10	WE 13.0 TWE 31.
13	Balsupalle	-	-	TK 27.52	GC 167.4 W 12.95 WE 34.4 TWE 91.
14	Baswaipalle	W 64 TK 120	W 40.47 TK 145.68	TK 159.03	TWE 66. TK 92.75
15	Bhoothpur	W 40 TK 66	TK 120.59 O 121.41	TK 94.70	TWE 129
16	Boyapalli	W 19 TK 210	W 14.57 WE 28.33 TK 87.00	W 75.18 TK 186.30 GC 18.39	WE 4.40 TWE 136 TK 1.60
17	Burgupalli	W 16 TK 60	W 2.02 TK 32.38	WE 25.90 TK 77.70	TWE 16.
18	Chegunta	W 42 TK 150	W 4.45 WE 32.78 TK 72.84		WE 6.87 TWE 113
19	Chowdarpalle	W 15 TK 224	W 24.28 TK 90.24	TK 185.00	WE 13.7 TWE 82. TK 88.29
20	Dasaripalle	W 39 TK 31	W 16.18 TK 40.47	W 48.56 TK 36.46	TWE 89.
21	Devarkadara	-	-	GC 222.99	WE 8.10 TWE 113 TK 202.5
22	Dharmapur	W 13	W 7.28 WE 38.45 TK 226.62	TK 109.26	WE 24.8 TWE 113