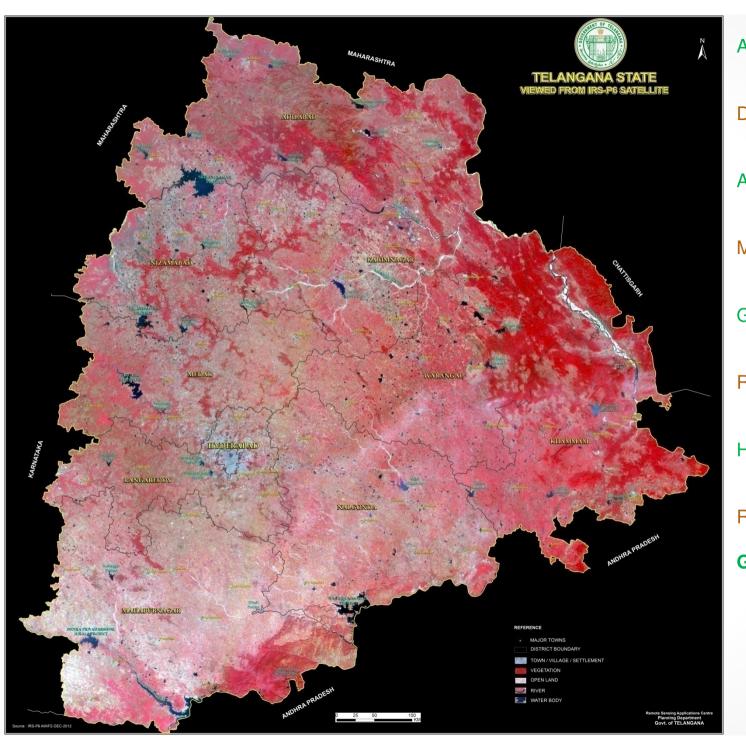
GIS based Planning and Expansion of Drinking Water Distribution System



Planning Department, Government of Telangana



Area - 1,14,564 km²

Districts - 10

Assembly Constituencies – 119

Mandals - 443

Gram Panchayats – 8,815

Revenue Villages – 11,353

Habitations - 25,058

Rural Population – **2,39,45,121**

Govt Programs

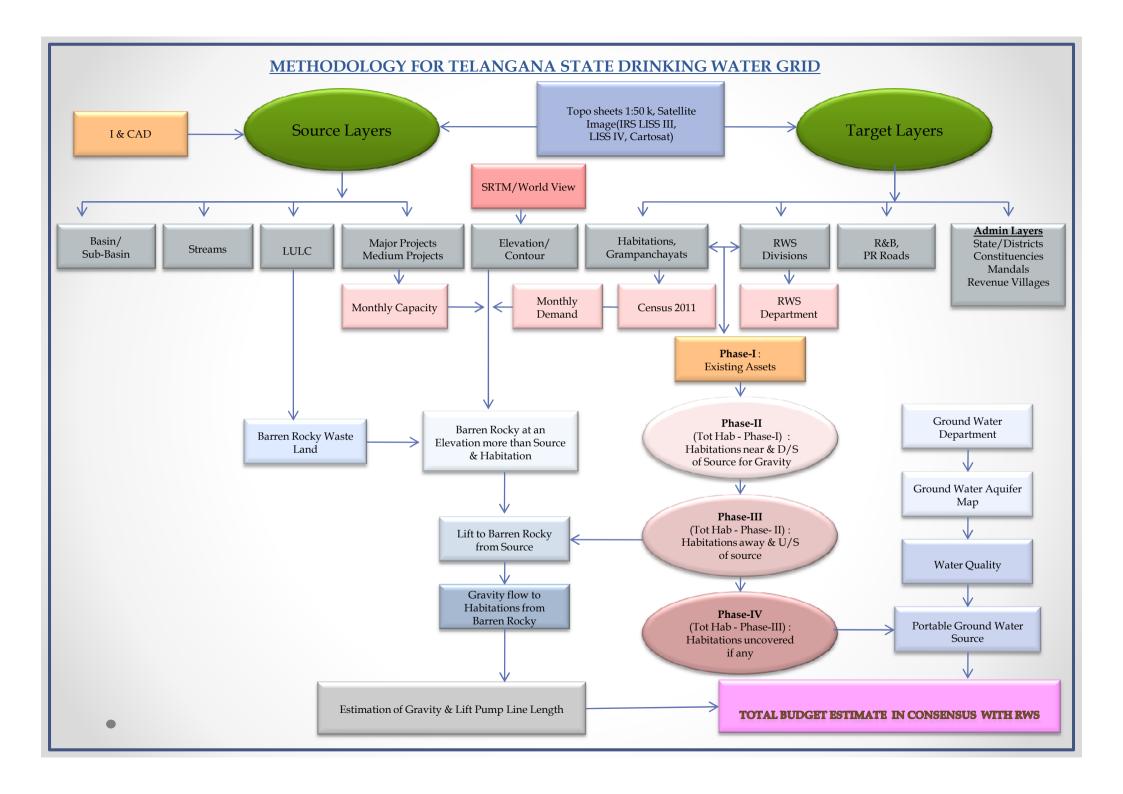
Drinking Water Grid

Mission Kakatiya

Our Village Our Plan

OBJECTIVES

- 1. Preparation of Geospatial database of the existing Rural Water Supply Infrastructure.
- 2. Topographic analysis for Planning the supply from the selected surface water sources to the feasible habitations.
- 3. Proximity analysis for optimum, economically routed pipe line along the existing transport network.



Current Infrastructure

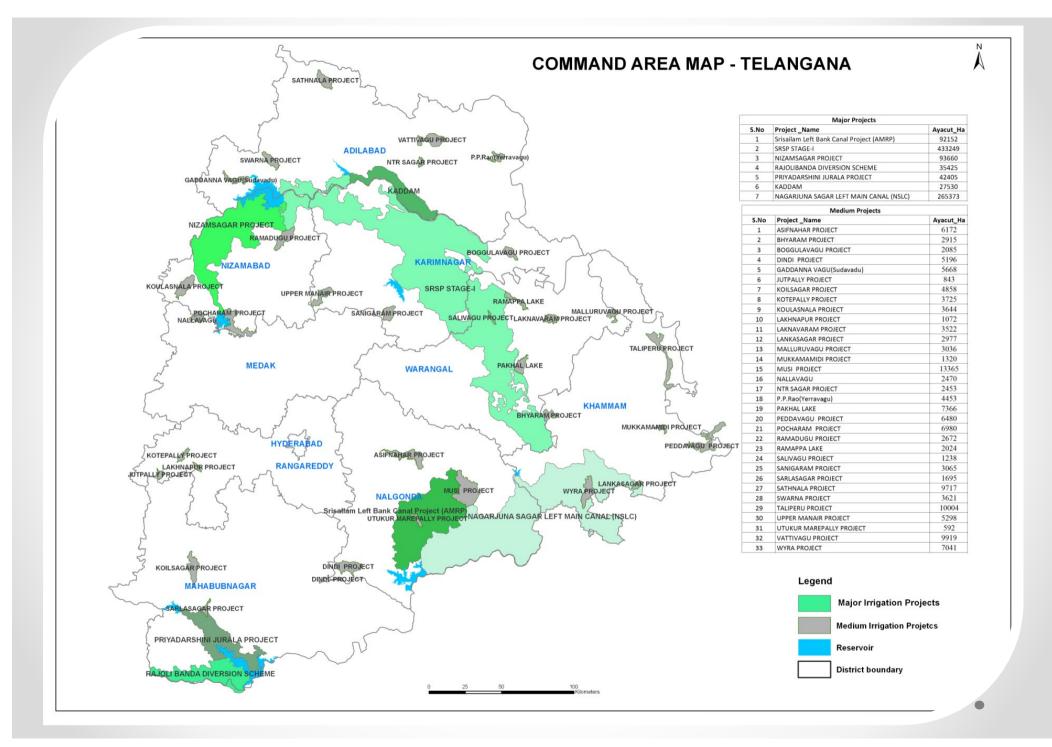
State Statistics

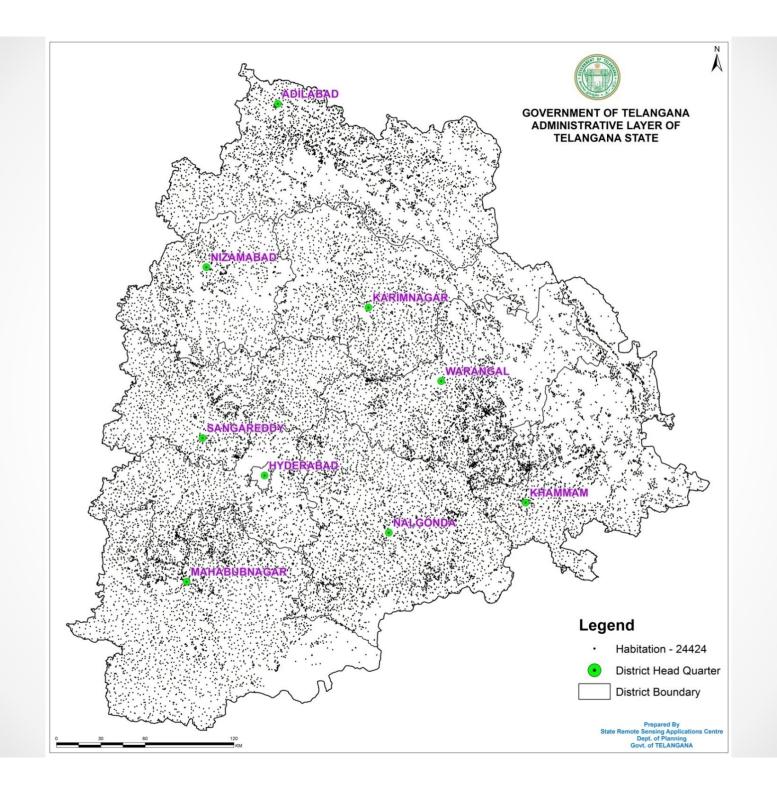
Habitation status	Level of service	Habi	tations	Population			
Habitation status	Level of service	Nos	Percentage	Total	Percentage		
Fully Covered (FC)	55 lpcd	8,307	33.17	54,30,760	22.68		
Not Covered (NC)	No service	16	0.06	3,643	0.02		
No Safe Source (NSS)	Source is not protected	1,242	4.96	19,30,517	8.06		
Partially Covered (PC)	< 55 lpcd	15,475	61.80	1,65,80,201	69.24		
Total		25,040		2,39,45,121			

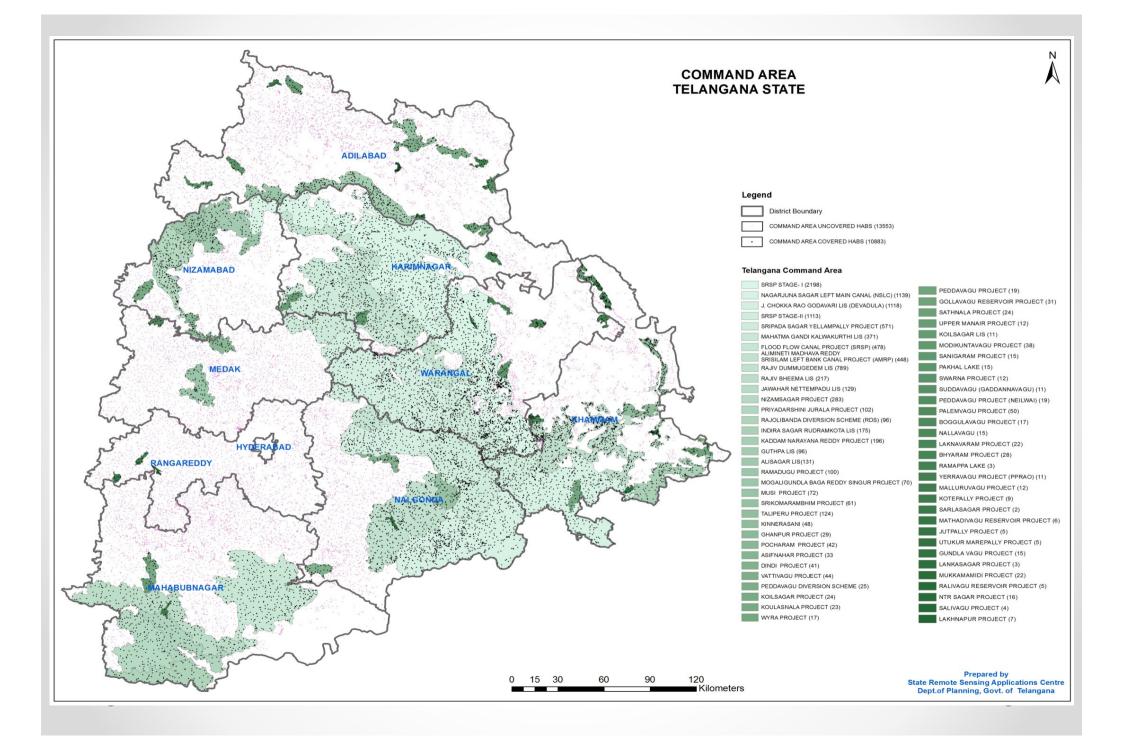
District wise Statistics

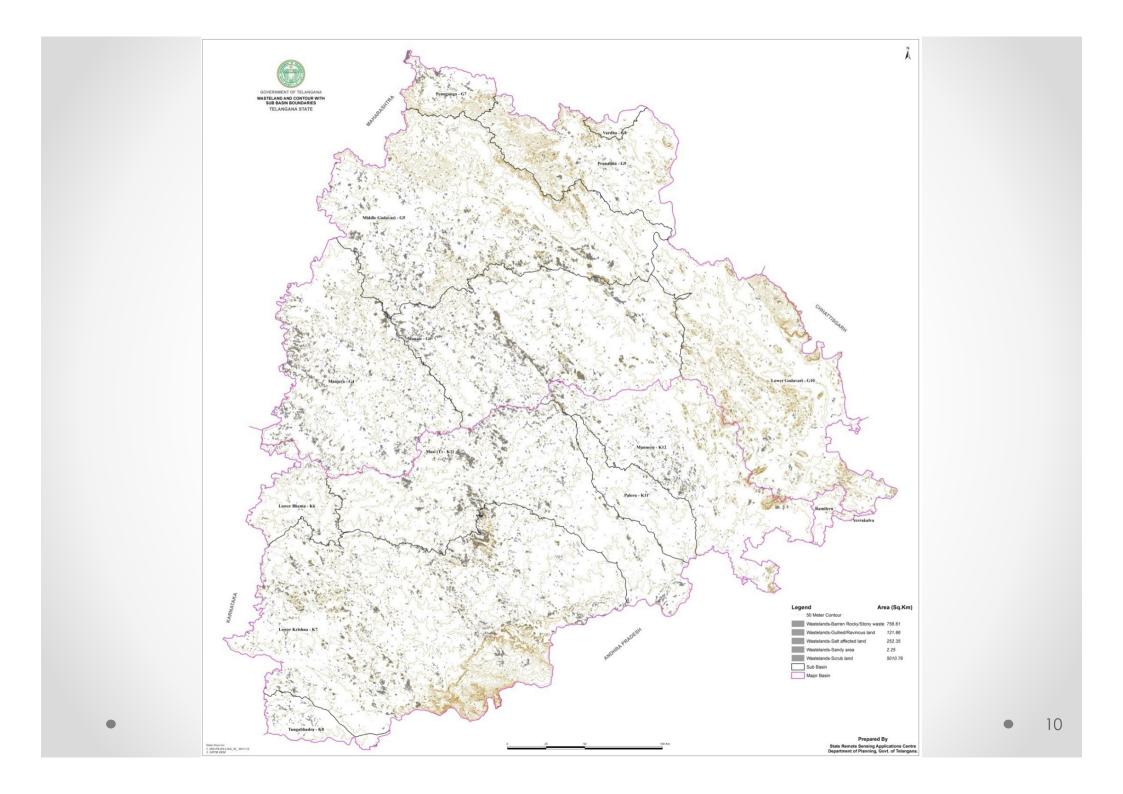
District	Fully Covered (FC)			Not Covered (NC)			No Safe Source (NSS)				Partially Covered (PC)							
	Habitations	%	Population	%	Habitations	%	Population	%	Habitations	%	Population	%	Habitations	%	Population	%	Total Habitations	Total Population
ADILABAD	1,120	31	4,13,003	20						0		0	2,501	69	16,56,576	80	3,621	20,69b,579
KARIMNAGAR	829	37	7,41,120	26					63	3	1,21,768	4	1,355	60	19,92,695	70	2,247	28,55,583
КНАММАМ	1,944	62	12,06,620	54	9	0	1,901	0.1	1	0	126	0	1,184	38	10,33,211	46	3,138	22,41,858
MAHABOOBNAGAR	788	23	6,80,425	19					255	7	4,78,914	13	2,364	69	24,31,060	68	3,407	35,90,399
MEDAK	527	22	2,92,066	11					95	4	1,00,434	4	1,816	74	22,92,683	85	2,438	26,85,183
NALGONDA	1,152	34	6,97,453	21	6	0	468	0.01	119	4	1,36,830	4	2,110	62	25,17,283	75	3,387	33,52,034
NIZAMABAD	837	51	7,90,654	37	1	0	1,274	0.1	140	9	2,64,513	13	667	41	10,52,612	50	1,645	21,09,053
RANGAREDDY	384	23	2,44,297	11					176	11	2,47,406	12	1,082	66	16,34,180	77	1,642	21,25,883
WARANGAL	726	21	3,65,122	13					393	11	5,80,526	20	2,396	68	19,69,901	68	3,515	29,15,549
Total	8,307	33	54,30,760	23	16	0.1	3,643	0.0	1,242	5	19,30,517	8	15,475	62	1,65,80,201	69	25,040	2,39,45,121

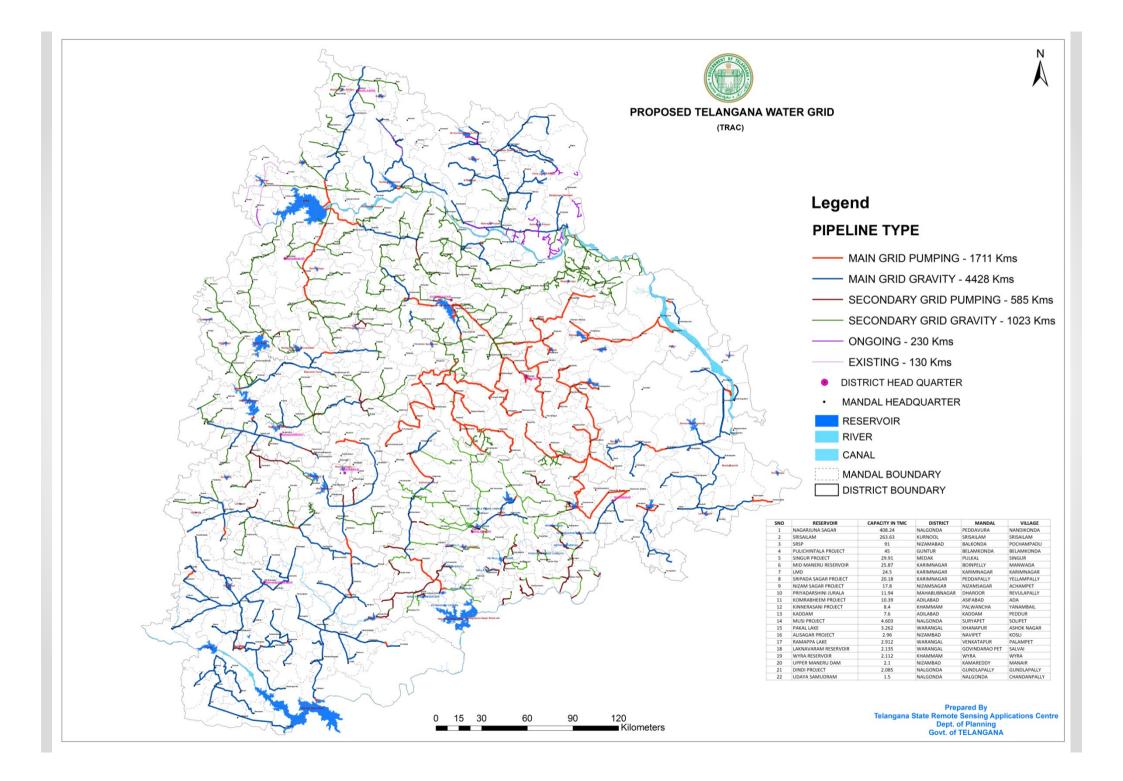


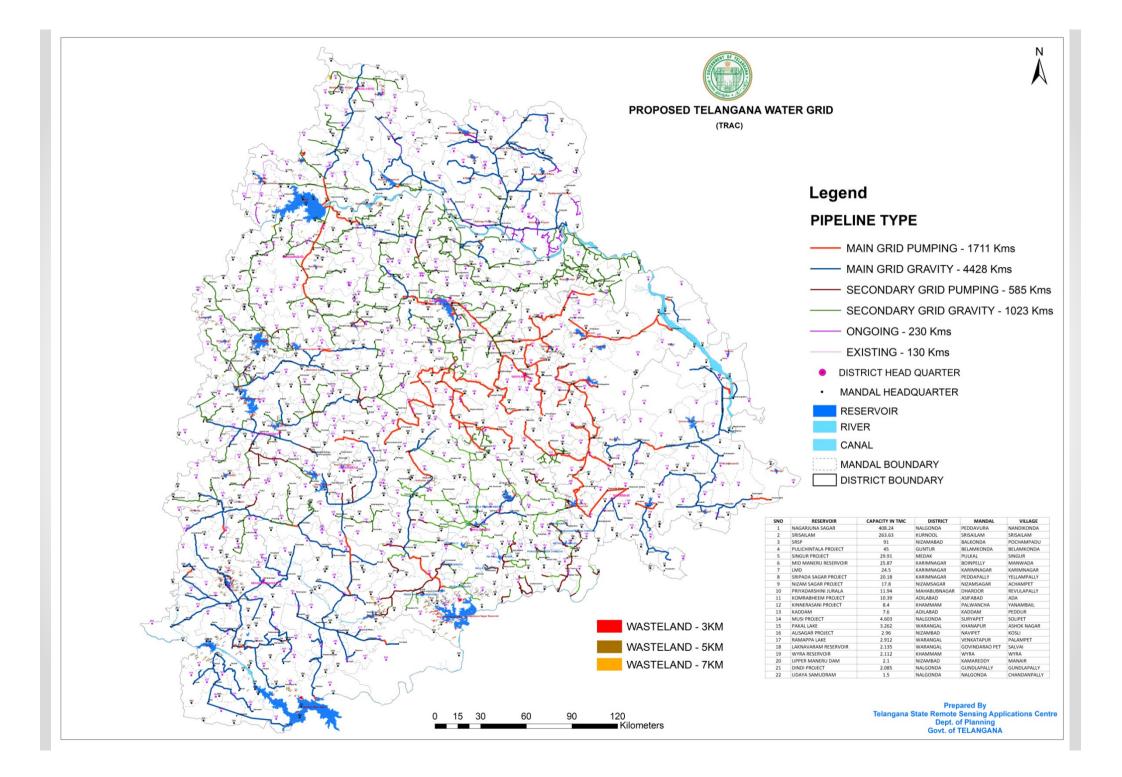


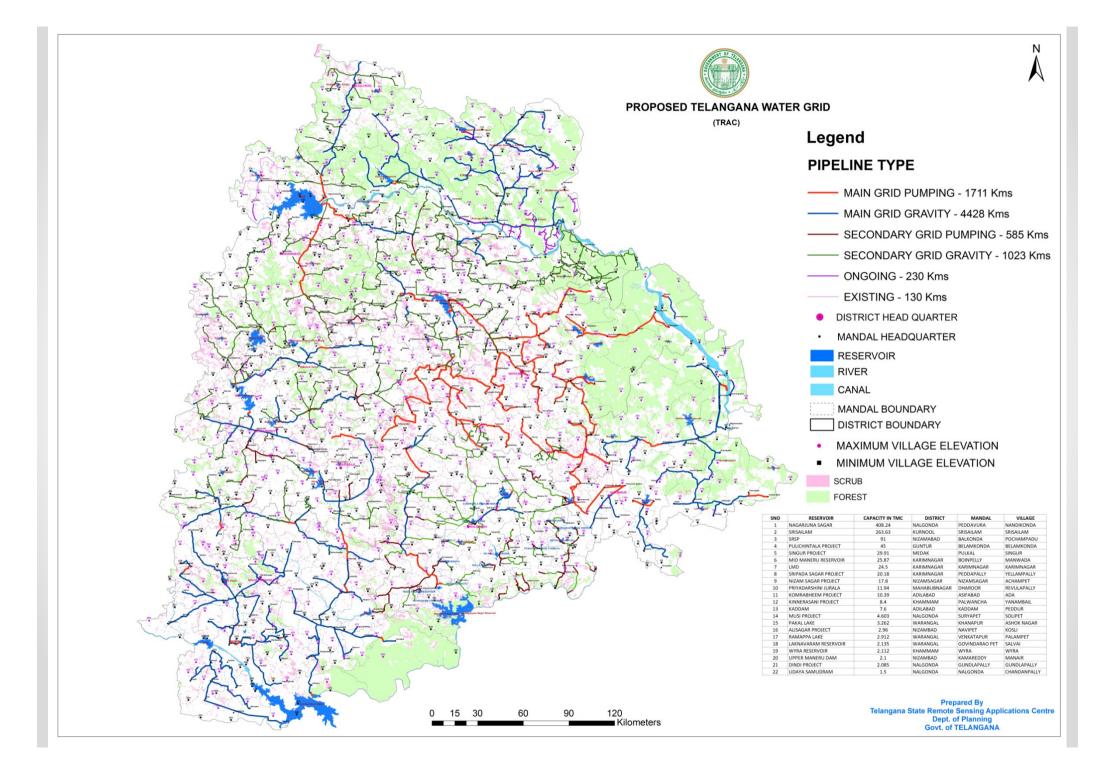


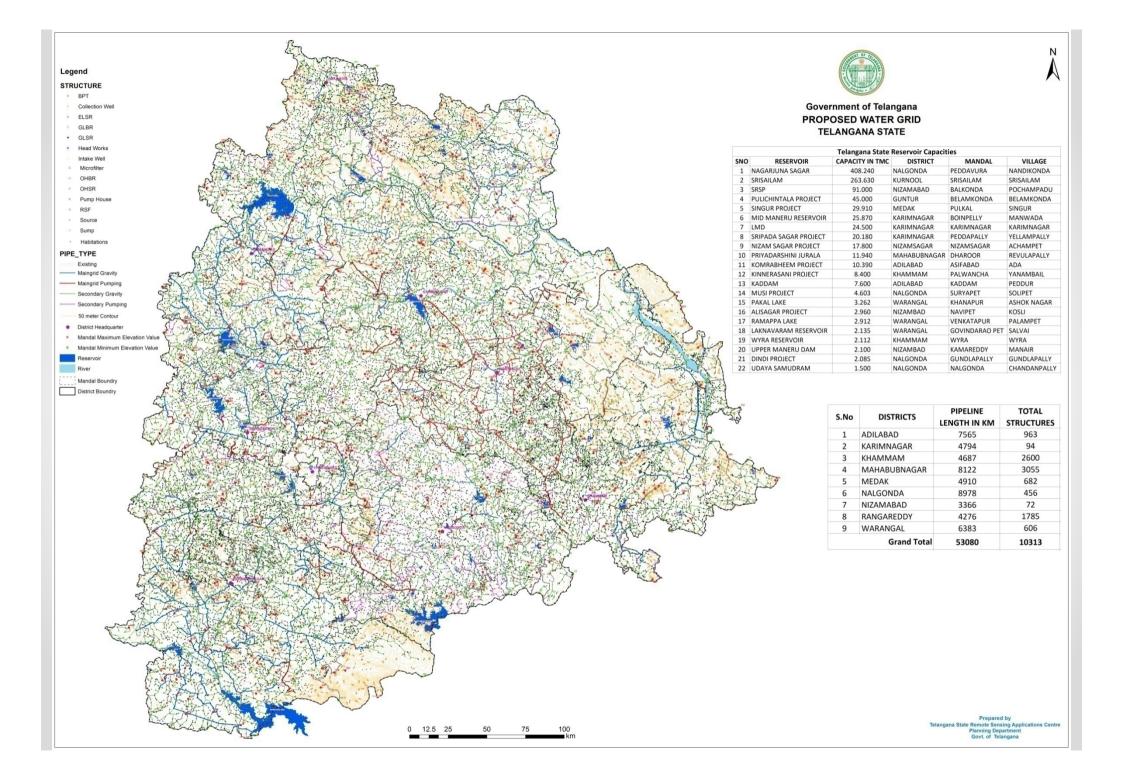


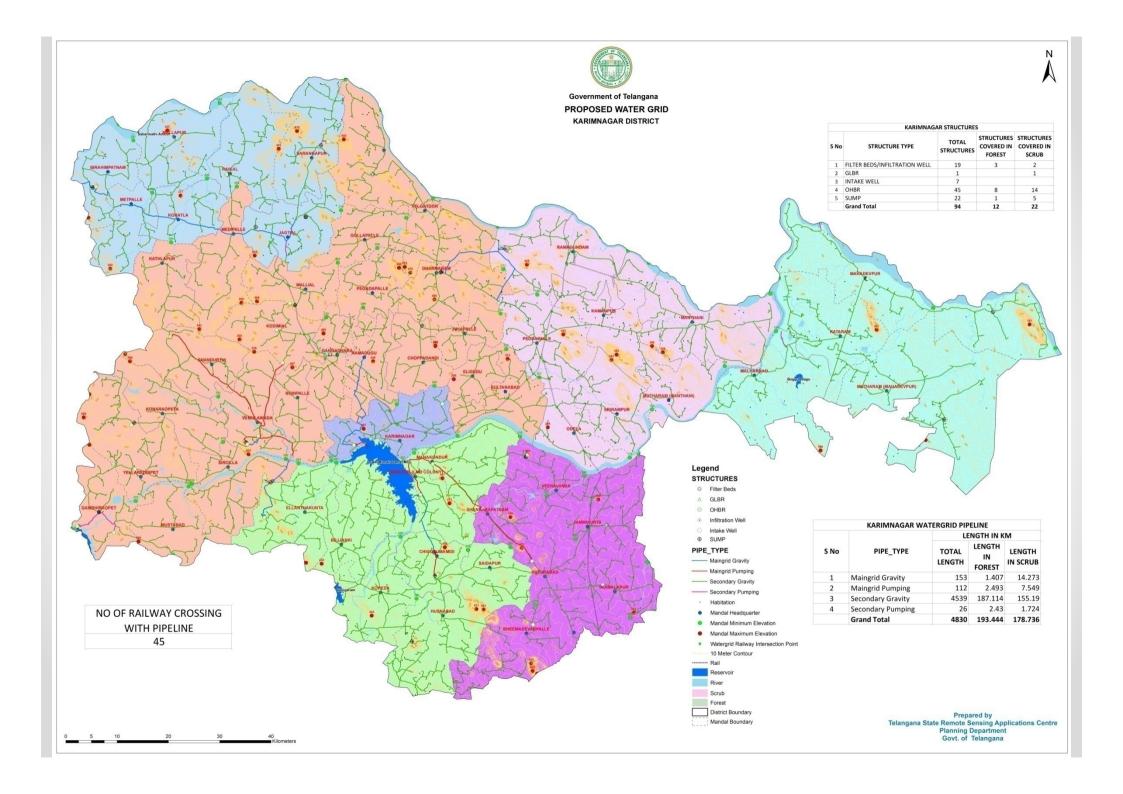


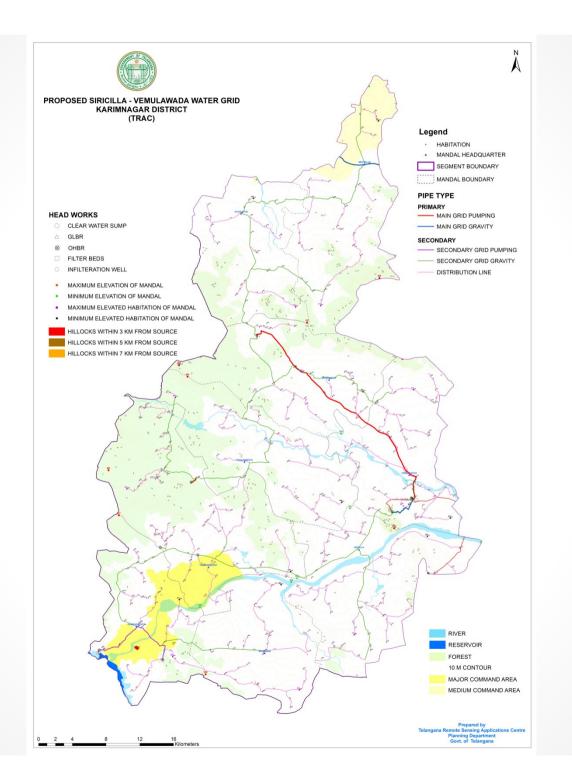


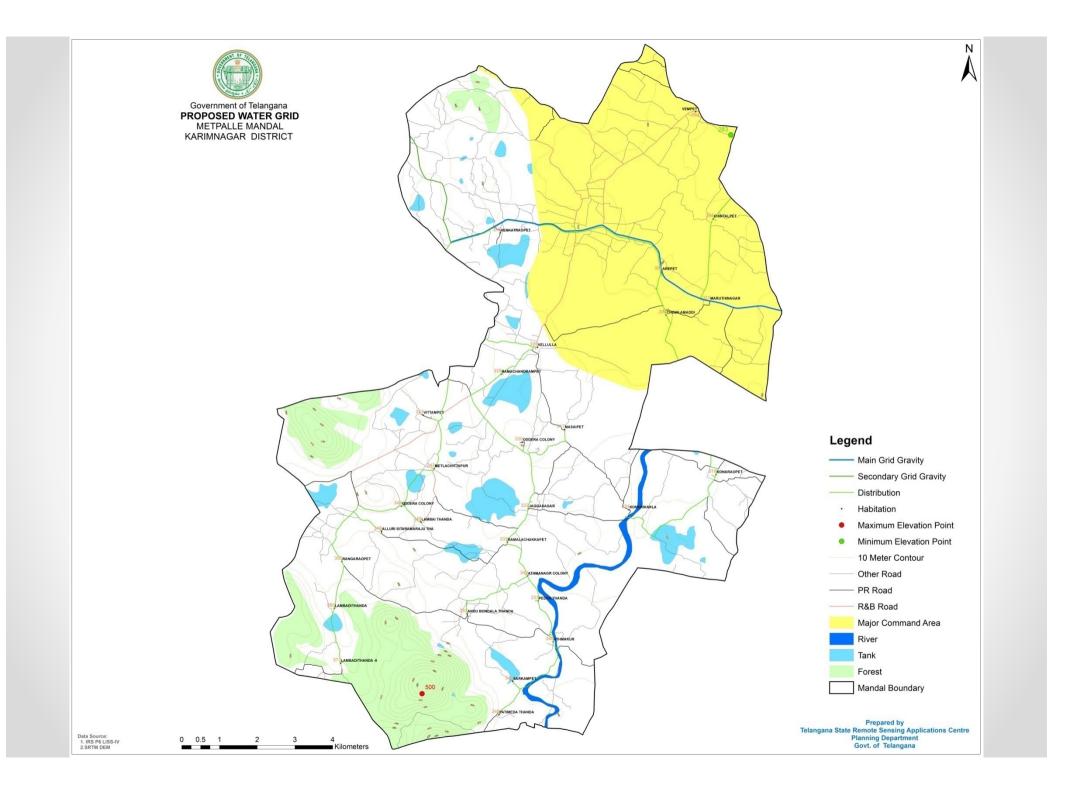


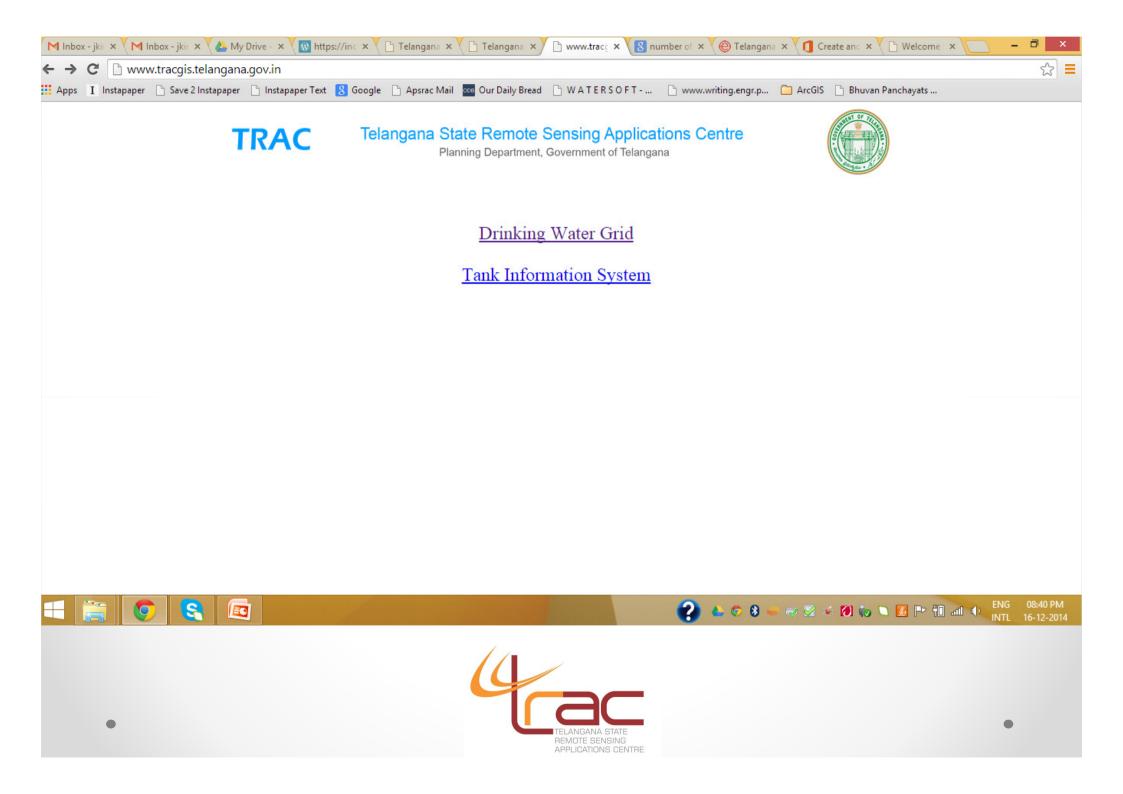


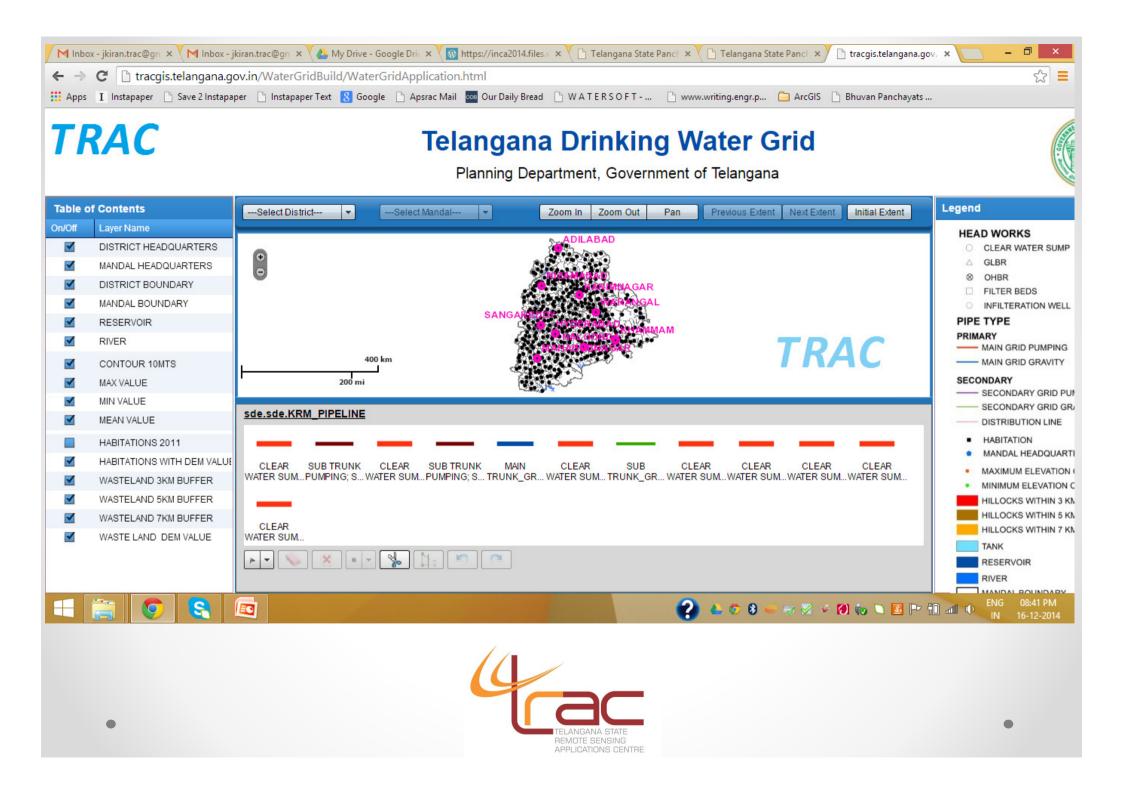


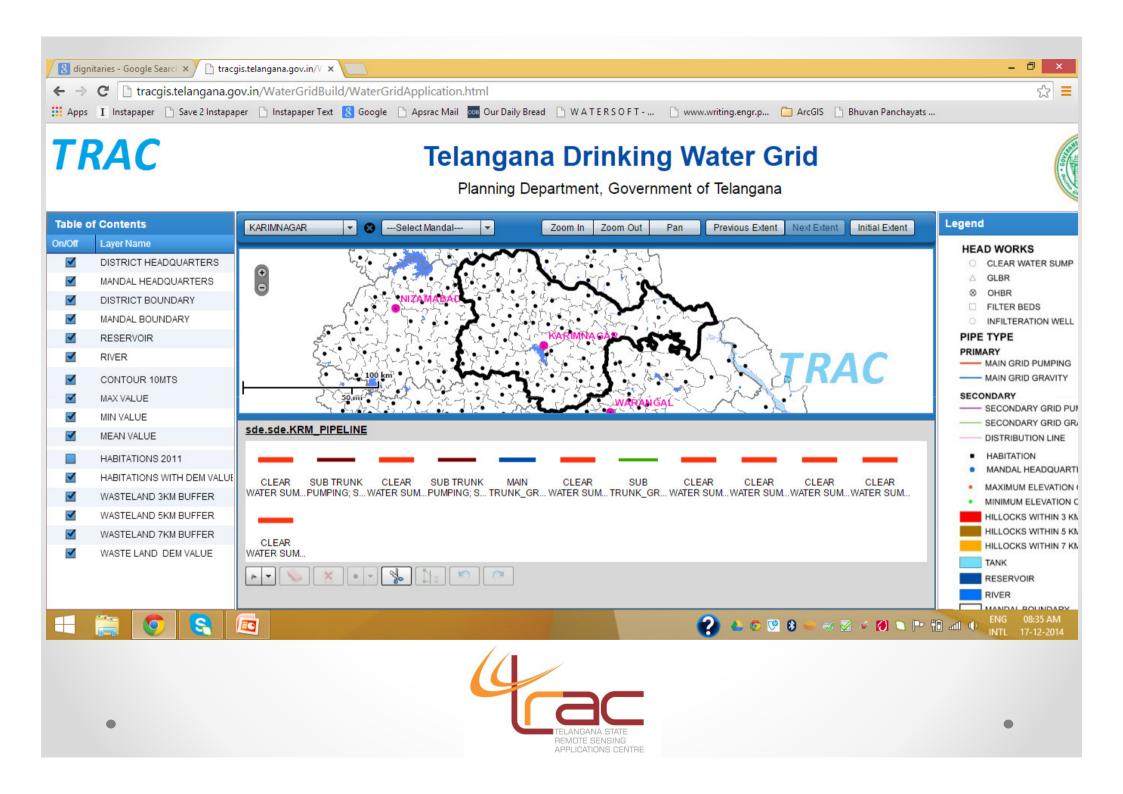


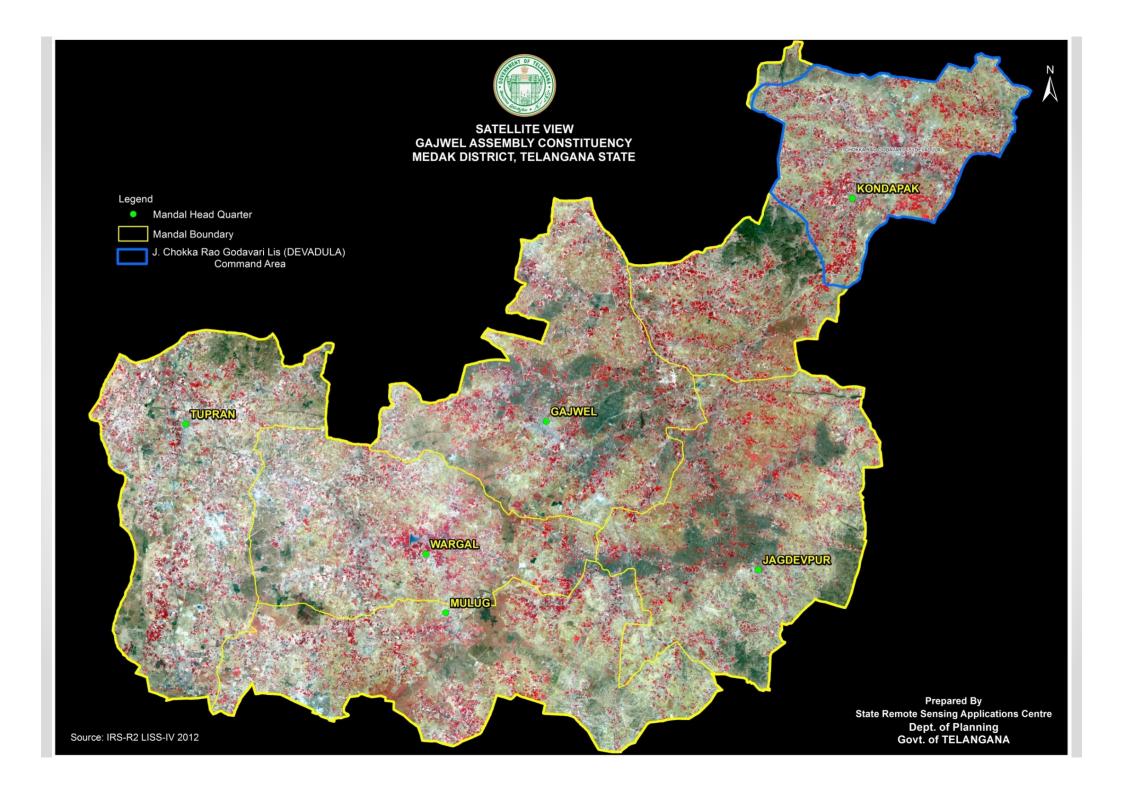










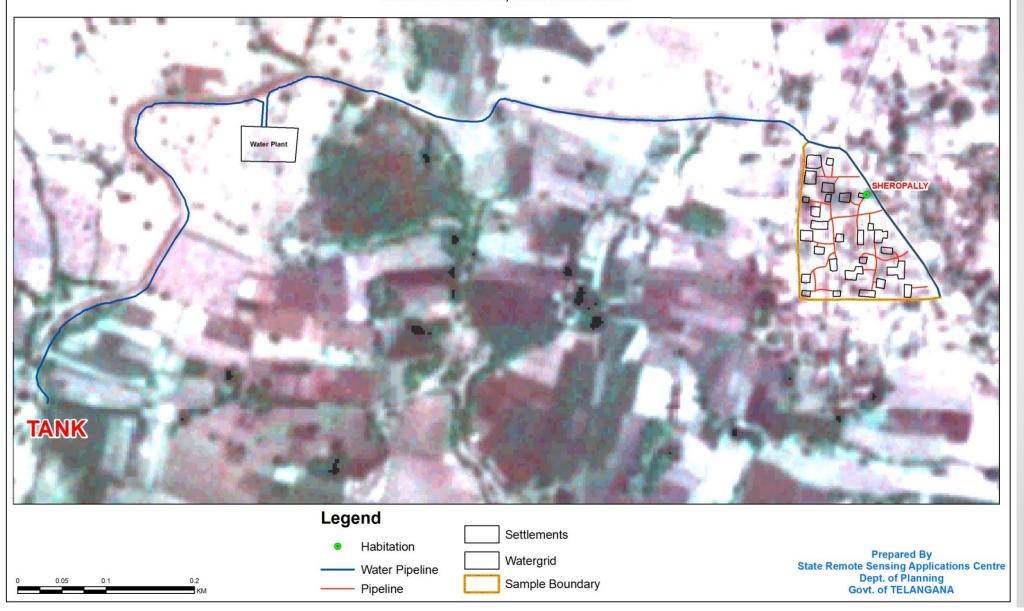


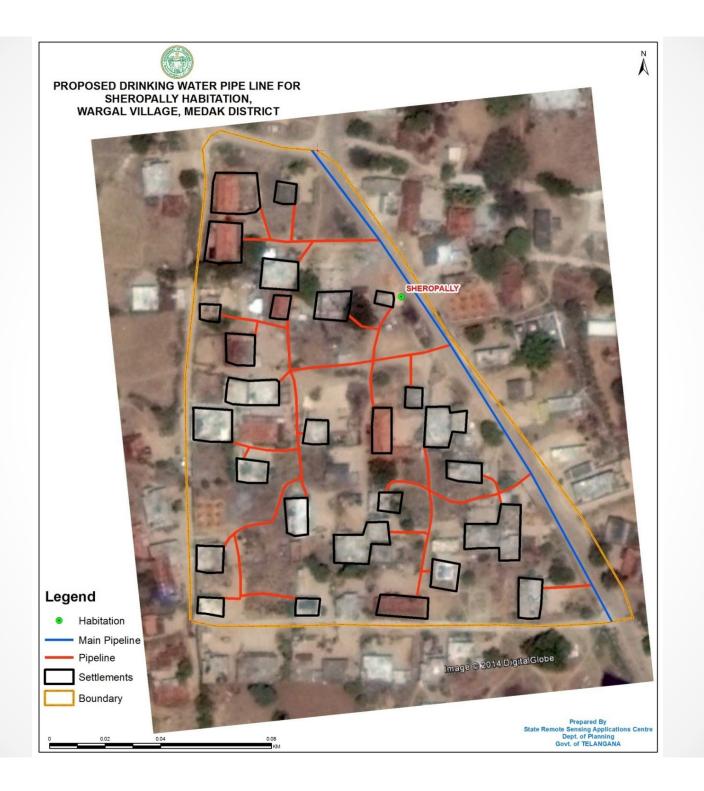
SATELLITE VIEW OF SHEROPALLY HABITATION, WARGAL VILLAGE, MEDAK DISTRICT Prepared By State Remote Sensing Applications Centre Dept. of Planning Govt. of TELANGANA



N

PROPOSED DRINKING WATER PIPE LINE FOR SHEROPALLY HABITATION, WARGAL VILLAGE, MEDAK DISTRICT





Conclusions

Pipe Line Length Details derived as

o Main Grid - 5,500 km

Sub Grid - 45,000 km

Total Structures - 10,151

408 Railway Crossings along the Pipe line identified.

Network within the village may be taken up at the later stage.



THANKS

