

Telangana Drinking Water Supply Project - Adilabad

Objectives and Scope:

Telangana drinking water supply project (TDWSP) is the flagship programme of the newly constituted state of Telangana. The State Government has embarked on a vision to provide safe, adequate, permanent and sustainable water supply to rural, urban and industrial areas by 2019. Apart from water for domestic use, the project is planned to meet the water needs of commercial entities, industrial units, Special Economic Zones, etc.

The project will be integrated with the existing and ongoing water supply schemes which are sustainable. Balance surface water requirements will be planned from the proposed Telangana Drinking Water Supply Project. The requirement of water for drinking, cooking, domestic need will be taken into account at 100 liters per capita per day (LPCD) for rural areas, 135 LPCD for municipalities/Nagar Panchayaths and 150 LPCD for municipal corporations. It is planned to supply water at the door step of every household. Samithis headed by women will manage the rural water supply systems at village level.

Need of the Project

The proposed project is to supply water needs of rural, urban, institutional, commercial and industrial excluding GHMC and its surrounding habitations within ORR of Hyderabad.

The following are major challenges in the water supply which promote to go for state wide several water networks(Grid)utilizing surface water sources mainly major irrigation projects and perennial rivers.

i) Ground water depletion

One of the major problems in this sector is depletion of ground water mainly due to over exploitation and short fall in rainfall.

ii) Ground Water Quality

In parts of Telngana ground water contains high concentration of fluoride and iron deposits in the subsurface strata. With depletion of ground water, the concentration of fluoride, iron and salinity is increasing in the ground water outside range of acceptable standard limits for drinking water which leads to provide surface treated water for human consumption. Total 115 quality affected habitations are identified in the districts with excess fluoride (60 Habs), salinity (47 Habs), TDS(0Habs.), Nitrates (7 Habs.) and Iron (1 Habs).However, some of these quality affected habitations are covered in the existing schemes/ongoing schemes with limited supply of quality water.

iii) Ground water pollution

Pollution is also a critical problem both from natural resources, Industrial pollutions, Agriculture pesticides, nitrates and improper disposal of solid and liquid waste etc.,

iv) Sustainability

In water supply sector sustainability of drinking water sources and systems is a major challenge in view of demand for irrigation and adverse seasonal conditions.

v) Increasing demand

Due to change in life styles & urbanization, most of the villagers are demanding household connections and increased level of water supply at their door step. Change in perception of people for better living standards is also leading to increased demand.

vi) Rural Areas and Urban Areas

Presently separate network from even from the same water source is planned for rural areas and urban areas due to which the cost of the project is increasing as the urban areas.

NRDWP Guidelines provides for "Gradual shift from over dependence on ground water to surface water sources, and conjunctive use of ground water, surface water and rainwater".


SALIENT FEATURES OF SEGMENT - 22

The Segment 22 covers 1819 habitations spreaded over 21 Mandals and Kaghaznagar & Bellampally Municipalities in 4 Assembly constituencies namely Sirpur, Bellampalli, Asifabad & Khanapur. The raw water will be collected from Komarambheem reservoir near Ada village from where the water will be pumped to headwork's near Manikguda of Asifabad Mandal & Dhanora of Kerimeri Mandal. Manikguda Gutta 1600KL GLBR serves 11 Mandals namely Bellampalli, Tandur, Bheemini, Nennel, Vemanapally, Kasipet, Kaghaznagar, Dahegaon, Sirpur T, Kowatala, Bejjur and Manikguda Gutta 350 KL GLBR serves 3 mandals namely Asifabad, Wankidi, Rebbana. Whereas the clear water sump at Dhanora Head works serves 7 mandals namely Kerimeri, Jainoor, Sirpur U, Tiryani, Narnoor, Utnoor, Indervelly.


Executive Engineer
RWS&S TDWSP
Asifabad

Superintending Engineer
RWS&S TDWSP,
Nirmal (Circle).

"Counter Signed"


Chief Engineer

RWS&S TDWSP, Hyderabad

Details of survey instruments

S.No	Name of the agency	Details of instrument used	Persons involved	Duration of survey
1	Vardhaman Engineers and consultance	DGPS instrument: OMNISTAR(Trimble), LEICA	Mr.Amarendher Mr.praveen Mr.Upendher	Nov, Dec 2015 & Jan 2016


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TDWSP, Asifabad

Superintending Engineer,
TDWSP, Nirmal

"Counter Signed"


Chief Engineer,
TDWSP, Hyderabad.


DETAILS OF FOREST AREA INVOLVED IN KAGHAZNAGAR SEG-22/4, ADILABAD DISTRICT

S.NO	DIVISION	RANGE	SECTION	BEAT	BLOCK	COMP_NO	Set	Dia	Length_mt	Width_mts	Area
1	2	3	4	5	6	7	8	9	10	11	12
1	KAGAZNAGAR	SIRPUR	SIRPUR	CHINTAKUNTA	ACHALLY	92	1	950.000	6246.648	2.200	1.374
2	KAGAZNAGAR	SIRPUR	SIRPUR	CHINTAKUNTA	ACHALLY	92	1	75.000	1702.87	0.700	0.119
3	KAGAZNAGAR	SIRPUR	SIRPUR	SIRPUR	KADAMBA_EXT-II	157	2	125.000	7176.367	0.700	0.502
4	KAGAZNAGAR	SIRPUR	SIRPUR	SIRPUR	GARLAPET	47	3	140.000	5511.175	0.700	0.386
5	KAGAZNAGAR	SIRPUR	MAKODI	MAKODI	GARLAPET	56	4	110.000	1663.372	6.000	0.998
6	KAGAZNAGAR	SIRPUR	MAKODI	CHEELAPALLY	GARLAPET	54	4	110.000	3348.879	0.700	0.234
7	KAGAZNAGAR	SIRPUR	MAKODI	CHEELAPALLY	GARLAPET	54	4	140.000	29.897	0.700	0.002
8	KAGAZNAGAR	SIRPUR	MAKODI	CHEELAPALLY	GARLAPET	54	4			GLBR	0.026
9	KAGAZNAGAR	SIRPUR	MAKODI	CHEELAPALLY	GARLAPET	54	4			SUMP	0.153
10	KAGAZNAGAR	SIRPUR	MAKODI	MAKODI	GARLAPET	31	5	75.000	2338.162	0.700	0.164
11	KAGAZNAGAR	SIRPUR	MAKODI	MALINI	GARLAPET	32	5	63.000	821.058	0.700	0.057
12	KAGAZNAGAR	SIRPUR	MAKODI	MAKODI	GARLAPET	57	5	90.000	2687.687	0.700	0.188
13	KAGAZNAGAR	SIRPUR	SIRPUR	LOANVELLY	KADAMBA_EXT-II	159	6	725.000	1991.617	1.900	0.378
14	KAGAZNAGAR	SIRPUR	MAKODI	MAKODI	JAKKAPUR	85	7	90.000	296.665	0.700	0.021
15	KAGAZNAGAR	SIRPUR	MAKODI	MAKODI	JAKKAPUR	85	7	75.000	1164.738	0.700	0.082
Total											4.684


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Chief Engineer,
TDWSP, Hyderabad

AREA STATEMENT - SIRPUR SEGMENT - 22 /3- ADILABAD DISTRICT						
Set	Structure type	Pipe Dia	Length in m	width m	Area_Ha	Total area in Ha
1	PIPELINE	950.000	6246.648	2.200	1.374	1.493
	PIPELINE	75.000	1702.870	0.700	0.119	
2	PIPELINE	125.000	7176.367	0.700	0.502	0.502
3	PIPELINE	140.000	5511.175	0.700	0.386	0.386
4	PIPELINE	110.000	1663.372	6.000	0.998	1.413
	PIPELINE	110.000	3348.879	0.700	0.234	
	PIPELINE	140.000	29.897	0.700	0.002	
	GLBR	-	-	-	0.026	
	SUMP	-	-	-	0.153	
5	PIPELINE	75.000	2338.162	0.700	0.164	0.409
	PIPELINE	90.000	2687.687	0.700	0.188	
	PIPELINE	63.000	821.058	0.700	0.057	
6	PIPELINE	725.000	1991.617	1.900	0.378	0.378
7	PIPELINE	90.000	296.665	0.700	0.021	0.103
	PIPELINE	75.000	1164.738	0.700	0.082	
TOTAL			34979.135		4.684	4.684


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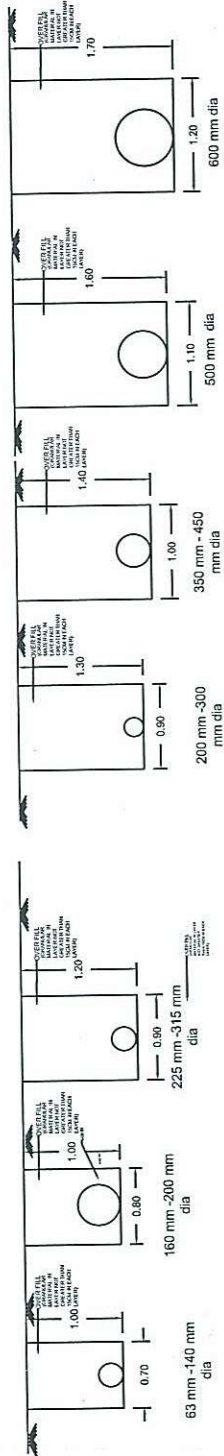
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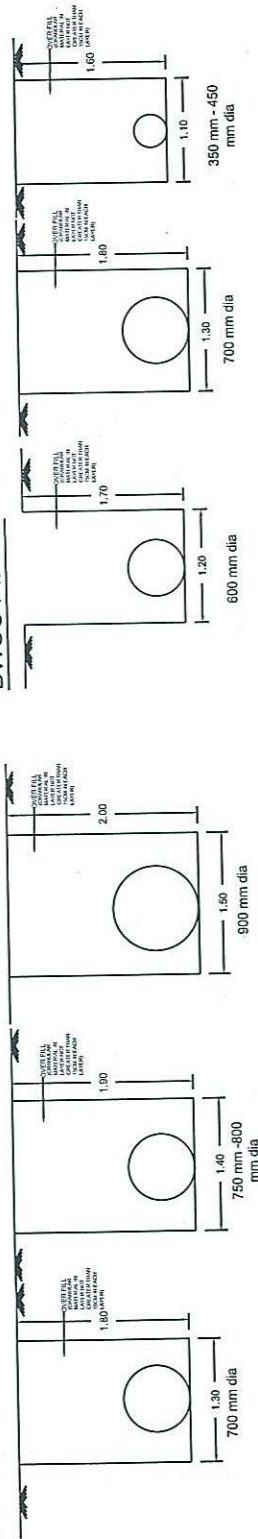
TELANGANA DRINKING WATER SUPPLY PROJECT SEGMENT- 22 ADIL ABAD DIST. SECTION SHOWING THE PIPELINE CROSS SECTIONS

HDPE PIPES:



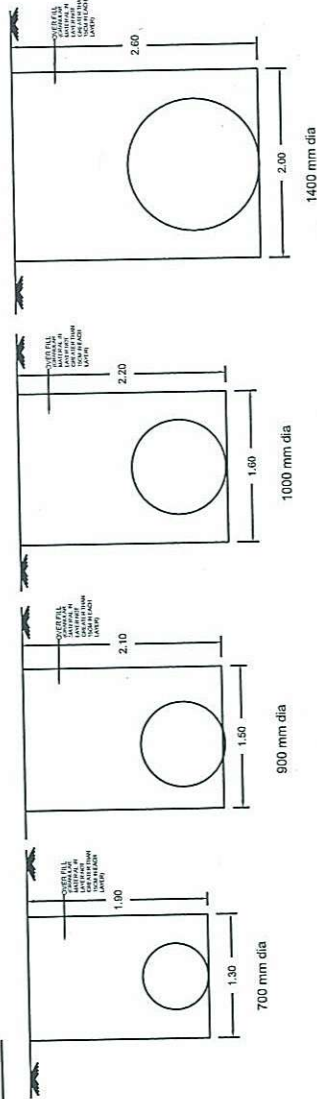
DI PIPES:

DI PIPES:



BWSC PIPES:

MS PIPES:

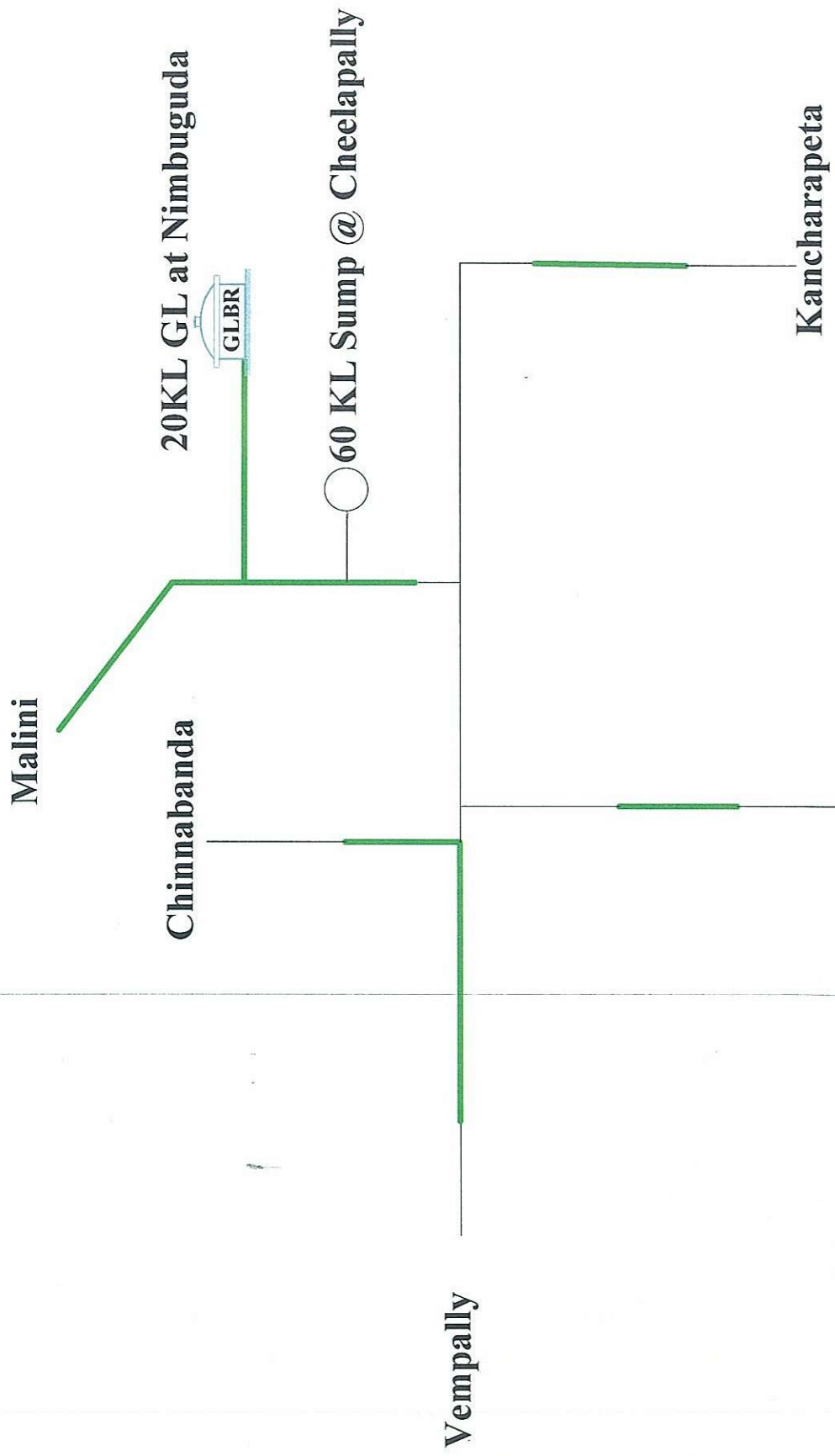


ALL DIMENSIONS ARE IN METRES
UNLESS OTHERWISE SPECIFIED

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FLOW CHART SHOWING PIPE LINE UNDER SIRPUR SEGMENT-22/3, ADILABAD DISTRICT.



Note:
Green Line-Pipe line in forest.

Bhupalapatnam
Kancharapeta

Signature
45/6/25