

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,

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


Details of survey instruments

Name of the agency	Details of instrument used	Persons involved	Duration of survey
Vardhaman Engineers and consultance	DGPS instrument: OMNISTAR(Trimble), LEICA	Mr.Amarendher	Nov, Dec 2015 & Jan 2016
		Mr.praveen	
		Mr.Upendher	


Executive Engineer,
TDWSP, Asifabad

Superintending Engineer,
TDWSP, Nirmal

"Counter Signed"


Chief Engineer,
TDWSP, Hyderabad.


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

CON	RANGE	SECTION	BEAT	BLOCK	COMP_NO	Set	Dia	Length_mt	Width_mts	Area
	3	4	5	6	7	8	9	10	11	12
AGAR	KAGAZNAGAR	KOTHAPET	KOTHAPET	GARLAPET_EXT-IV	68	1	75	969.475	0.70	0.068
AGAR	KAGAZNAGAR	KOTHAPET	KOTHAPET	GARLAPET_EXT-IV	69	1	125	3752.597	0.70	0.263
AGAR	KAGAZNAGAR	KOTHAPET	KOTHAPET	GARLAPET_EXT-IV	69	1	90	358.913	0.70	0.025
AGAR	KAGAZNAGAR	KOTHAPET	KOTHAPET	GARLAPET	63	2	75	3307.181	0.70	0.232
AGAR	KAGAZNAGAR	KOTHAPET	KOTHAPET	GARLAPET	71	2	500	322.076	6.00	0.193
AGAR	KAGAZNAGAR	KOTHAPET	KORSINI	GARLAPET	76	3	75	2122.506	0.70	0.149
AGAR	KAGAZNAGAR	KOTHAPET	KORSINI	GARLAPET	75	3	110	2041.809	0.70	0.143
AGAR	KAGAZNAGAR	KOTHAPET	VEMPALLI	VEMPALLY	78	3	950	671.223	2.20	0.148
AGAR	KAGAZNAGAR	RASPALLI	KADAMBA	KADAMBA	130	4	75	2554.791	0.70	0.179
AGAR	KAGAZNAGAR	BOMBAIGUDA	CHEDWAI	KADAMBA	138	5	75	3573.805	0.70	0.250
AGAR	KAGAZNAGAR	BOMBAIGUDA	CHEDWAI	KADAMBA	138	5	110	171.337	0.70	0.012
					TOTAL			19845.713		1.662



 Executive Engineer
 TDWSP, Asifabad

Superintending Engineer,
 TDWSP, Nirmal

"Counter Signed"



 Chief Engineer,
 TDWSP, Hyderabad

AREA STATEMENT - KAGHAZNAGAR SEGMENT - 22 /4 - ADILABAD DISTRICT						
Set	Structure type	Pipe Dia	Length in m	width m	Area_Ha	Total area in Ha
1	PIPELINE	75.000	969.475	0.700	0.068	1.031
	PIPELINE	125.000	3752.597	2.500	0.938	
	PIPELINE	90.000	358.913	0.700	0.025	
2	PIPELINE	75.000	3307.181	0.700	0.232	0.513
	PIPELINE	500.000	322.076	6.000	0.193	
	BPT	-	-	-	0.088	
3	PIPELINE	950.000	671.223	2.200	0.148	0.440
	PIPELINE	75.000	2122.506	0.700	0.149	
	PIPELINE	110.000	2041.809	0.700	0.143	
4	PIPELINE	75.000	2554.791	0.700	0.179	0.179
5	PIPELINE	75.000	3573.805	0.700	0.250	0.262
	PIPELINE	110.000	171.337	0.700	0.012	
TOTAL			19845.713		2.425	2.425


Executive Engineer
TDWSP, Asifabad

Superintending Engineer,
TDWSP, Nirmal

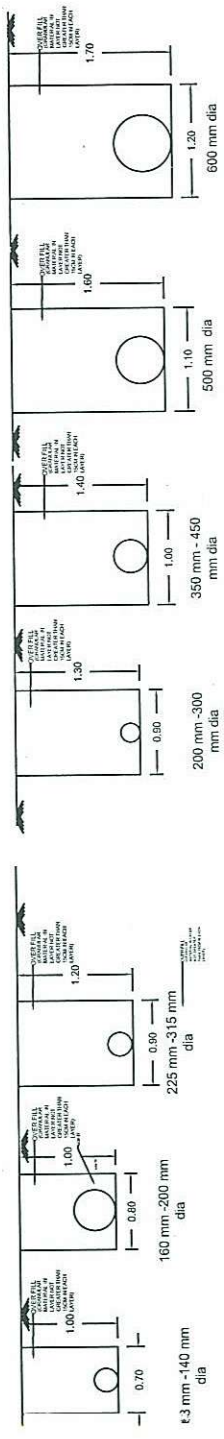
'Counter Signed'


Chief Engineer,
TDWSP, Hyderabad

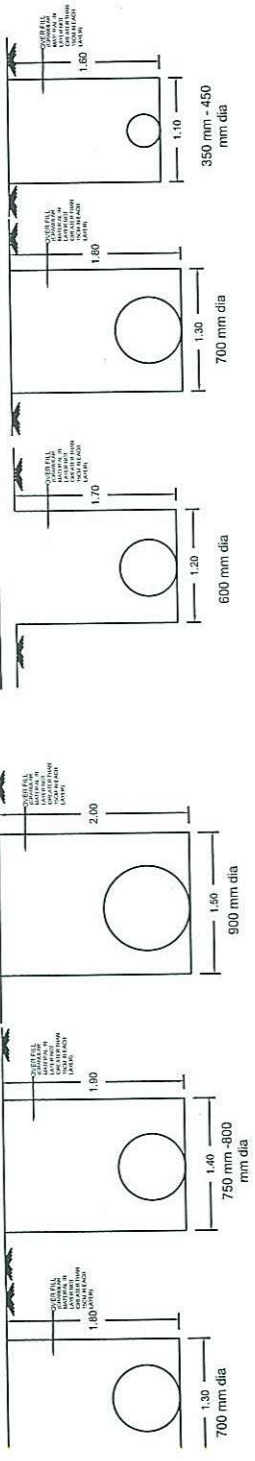
ANA DRINKING WATER SUPPLY PROJECT SEGMENT- 22 ADIL ABAD DIST. SECTION SHOWING THE PIPELINE CROSS SECTIONS

ES:

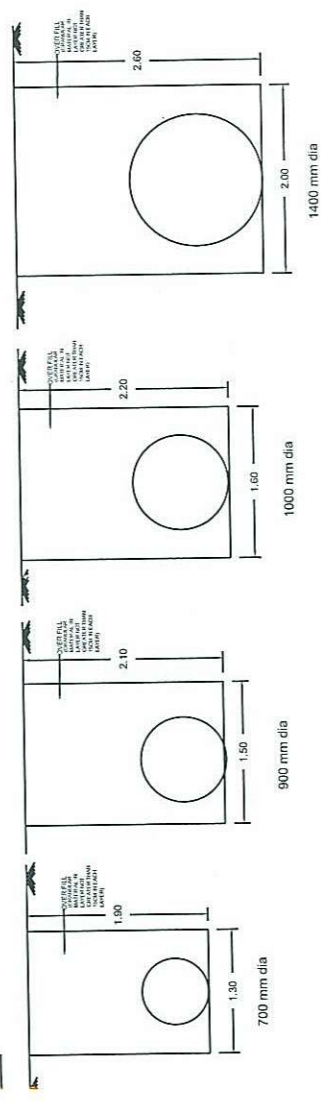
DIPIPES:



BWSCPIPES:



ES:



ALL DIMENSIONS ARE IN METRES
UNLESS OTHERWISE SPECIFIED

100
E. Ahmad
Asif Khan
27

**FLOW CHART SHOWING PIPE LINE UNDER KHAGAZNAGAR SEGMENT-22/4,
ADILABAD DISTRICT.**

