

## 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

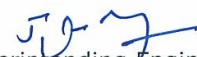
Presently separate network from even from the same water source is planned for rural areas and urban areas due to which the cost of the project is increasing as the urban areas.

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

  
 Executive Engineer,  
 TDWSP, Asifabad

  
 Superintending Engineer,  
 TDWSP, Nirmal

"Counter Signed"

  
 Chief Engineer,  
 TDWSP, Hyderabad.

AREA STATEMENT - DAHEGAON SEGMENT - 22 /5 - ADBD						
Set	Structure type	Pipe Dia	width m	Length in m	Area_Ha	Total area in Ha
1	PIPELINE	140.000	0.700	1960.376	0.137	0.331
	PIPELINE	75.000	0.700	95.702	0.007	
	PIPELINE	110.000	0.700	1407.531	0.099	
	PIPELINE	140.000	0.700	321.505	0.023	
	PIPELINE	110.000	0.700	927.823	0.065	
2	PIPELINE	110.000	6.000	2338.073	1.403	1.403
3	PIPELINE	90.000	0.700	1111.302	0.078	0.136
	PIPELINE	125.000	0.700	827.873	0.058	
4	PIPELINE	110.000	0.700	1531.548	0.107	0.275
	PIPELINE	90.000	0.700	2405.459	0.168	
5	PIPELINE	110.000	0.700	2910.277	0.204	0.204
6	PIPELINE	90.000	0.700	4131.859	0.289	1.039
	PIPELINE	125.000	0.700	9374.297	0.656	
	PIPELINE	90.000	0.700	251.254	0.018	
	PIPELINE	75.000	0.700	66.833	0.005	
	PIPELINE	110.000	0.700	532.265	0.037	
	PIPELINE	110.000	0.700	394.524	0.028	
	PIPELINE	75.000	0.700	84.015	0.006	
7	PIPELINE	75.000	0.700	2895.781	0.203	0.203
8	PIPELINE	75.000	0.700	3174.390	0.222	0.222
TOTAL				33568.297	3.813	3.813

**DETAILS OF FOREST AREA INVOLVED IN DAHEGAON SEG-22/5, 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	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	CHANDRAPALLI	504	1	140	1960.376	0.70	0.137
2	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	CHANDRAPALLI	504	1	110	1407.531	0.70	0.099
3	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	CHANDRAPALLI	504	1	110	927.823	0.70	0.065
4	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	CHANDRAPALLI	503	1	75	95.702	0.70	0.007
5	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	CHANDRAPALLI	501	1	140	321.505	0.70	0.023
6	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	GIRELLI	474	2	110	2338.073	6.00	1.403
7	BELLAMPALLY	KUSHNEPALLY	LINGAL	LINGALA	GIRELLI	449	3	90	1111.302	0.70	0.078
8	BELLAMPALLY	KUSHNEPALLY	LINGAL	LINGALA	GIRELLI	449	3	125	827.873	0.70	0.058
9	BELLAMPALLY	KUSHNEPALLY	GIRELLY	HATHANI	HATHANI	408	4	110	1531.548	0.70	0.107
10	BELLAMPALLY	KUSHNEPALLY	GIRELLY	HATHANI	KUNCHAVELLI	407	4	90	2405.459	0.70	0.168
11	BELLAMPALLY	KUSHNEPALLY	GIRELLY	HATHANI	HATHANI	412	5	110	2910.277	0.70	0.204
12	BELLAMPALLY	KUSHNEPALLY	RAMPUR	GOPALPET	GIRELLI	480	6	90	4131.859	0.70	0.289
13	BELLAMPALLY	KUSHNEPALLY	RAMPUR	GOPALPET	GIRELLI	490	6	125	9374.297	0.70	0.656
14	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	GIRELLI	472	6	90	251.254	0.70	0.018
15	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	GIRELLI	472	6	110	532.265	0.70	0.037
16	BELLAMPALLY	KUSHNEPALLY	GIRELLY	GIRELLY	GIRELLI	472	6	75	84.015	0.70	0.006
17	BELLAMPALLY	KUSHNEPALLY	RAMPUR	GOPALPET	GIRELLI	472	6	75	66.833	0.70	0.005
18	BELLAMPALLY	KUSHNEPALLY	RAMPUR	GOPALPET	GIRELLI	472	6	110	394.524	0.70	0.028
19	BELLAMPALLY	KUSHNEPALLY	RAMPUR	RAMPUR	GIRELLI	491	7	75	2895.781	0.70	0.203
20	KAGAZNAGAR	BIJJUR	PENCHIKALPET	ELLUR	BIJJUR	249	8	75	3174.390	0.70	0.222
						<b>TOTAL</b>			<b>36742.687</b>		<b>3.813</b>

  
Executive Engineer  
TDWSP, Asifabad

  
Superintending Engineer,  
TDWSP, Nirmal

'Counter Signed'  
  
Chief Engineer,  
TDWSP, Hyderabad



FLOWCHART SHOWING PIPELINE UNDER DAHEGAON SEGMENT-22/5

ADILABAD DISTRICT

