

Brief Notes on Segment 3/2

TELANGANA DRINKING WATER SUPPLY PROJECT IN NALGONDA DISTRICT

EST COST Rs:2106.00 Crores

PROFILE

As a part of Telangana Drinking Water Project (TDWSP), it is proposed to cover all habitations in the district by surface water to ensure 100 LPCD at household level. The methodology adopted is to draw surface water from sustainable sources and supplying the water after treatment to the habitations through two parts of the segments.

In the design, it is proposed to utilize the existing infrastructure available in the village depending on the suitability, to the extent possible and augmentations are proposed wherever required based on necessity. The salient features of the Segments are as follows:

As a part of Telangana Drinking Water Project, **Initially** the AKBR segment (The area which is proposed to be covered with Akkampally Balancing Reservoir as source) is planned for covering 5 constituencies of Nalgonda district. Those are Devarakonda, Munugode, Nagarjuna Sagar, Bhuvanagiri and Aleru. These 5 constituencies comprises of 27 mandals. But the SEGMENT is planned by excluding the Munugode mandal of Munugode constituency. Hence the number of mandals in present plan is 26. These 26 mandals comprises of 1672 Rural habitations. Population of these habitations is 13,55,040. Out of which 1466 rural habitations of population 1200026 covered in this segment. It is proposed to provide water supply to two urban local bodies Bhuvanagiri and Devarakonda. Sum of urban population planned is 92,753. Population of Yadagiri Gutta is considered as 50000 due to floating and rapid growth prospects.

The Hon'ble CM held extensive review of Telangana Drinking Water Supply Project (TDWSP) on 06-08-2015. The Hon'ble CM instructed to cover Bhongir and Alair constituencies from Yellampally HMWSSB line instead of AKBR as envisaged. Also instructed to prepare the DPR with due investigation to locate the tapping point on HMWSSB line. Accordingly the Chief Engineer V&QC inspected the line and finalized to tap water from the existing GLBR of HMWSS on GhanpurGutta in Shamirpet(M) of RangaReddy Dist. Accordingly the DPR is prepared in 2 Parts ie Part A and Part B.

Part A: The Segment With Akkampally Balancing Reservoir (AKBR) as Source.

Part B :The Segment With Yellampally HMWSSB line (Godawari) Tapping Point at Ghanpurgutta as Source.

THE SEGMENT WITH AKKAMPALLY BALANCING RESERVOIR AS SOURCE:

Main source selected for this Segment is Akkampally Balancing Reservoir (AKBR) in Pedda Adisarlapally mandal of Nalgonda district. This reservoir gets water from Nagarjunasagar with a mega lift at Puttangandi. Irrigation department has constructed this lift as part of SLBC project. This reservoir will get water from Srisailem by gravity once if the SLBC tunnel is completed. The Hyderabad Metro Water works board (HMWSSB) is also presently drawing water from the same source at Kodandapuram. The HMWSSB, after drawing raw water from Off take point on SLBC canal, treats in Kodandapuram WTP headworks. Then clear water is pumped to Hyderabad in two stages lifting.

The government has allocated 10 acres land for RWS department in the premises of HMWSSB's Kodandapuram headworks compound. The Raw Water will be drawn from the same off take point (Inlet Invert level +229.93) that of HMWSSB by a branched pipe and will be collected in to Raw water sump at Kodandapuram Headworks (+222m Level). From thus collected raw water 39000 LPM is proposed

to be treated at Kodandapuram and will be supplied to Devarakonda and NagarjunaSagar constituencies. The capacity of RSF proposed at Kodandapuram is 50 MLD. This capacity includes the 10% quota allocated for industrial demand. It covers 344 rural habitations and Devarakonda municipality. Clear water will be pumped to 3 MBR (Main Balancing Reservoirs) at Bonthagattu, Chilakamarri peak, Waddipatla peak and in turn distributes to local OHBRs and there byto OHSRs in the Habitations by gravity. The quota allocated for industries is proposed to be pumped up to Chilakamarri peak.

Next the raw water is proposed to be pumped to areator at Batlapally village of Marrigudem mandal (adjacent to SwamulawariLingotam village of Nampally mandal) at a distance of 46 km at +343m (+338+3) level. At Batlapally raw water will be treated and supplied to Munugode constituency , higher contours of Devarakonda constituency, part of Nagarjunasagar constituency, part of Bhongir constituency.

The Population and habitation details are as follows.

Contituency	No of habs	Population	
Munugode	274	268438	
Devarakonda	244	148588	
Nagarjunasagar	7	5039	
Bhongir	30	29350	
Total	451415	555	451415

The Capacity of RSF plant proposed at Batlapally is 70MLD. This capacity includes 10% quota allocated for industrial demand. This RSF covers 555 rural habitations of population 451415. From the Batlapally clear water sump water will be pumped to GLBR on Gollakonda hillock(+500m) and to a Heap at Eedulagandi (+410) in Marrigudemmandal. Industrial quota will be supplied up to Chinthapally village which is adjacent to Vinjamoor village where the demand is intended.

There are some existing WTPs in this segmnet which are already commissioned and functioning. Those are Penldipakala, PeddaDevulapally, Peddavura town, Haliya town, Mupparam. Actually these plants are designed and are being operated to supply water at 40 LPCD rate. By restricting the number of

habitations under these plants, it has been planned to supply 100 LPCD water to those limited number of habitations. As such 170 habitations are proposed to get water from the existing WTPs. Pendlipakala RSF will cover 90 habitations and PeddaDevulapally plant will cover 66 habitations in Thripurarammandal. There are 28 inaccessible habitations in this segment for which augmentation of single village schemes will be proposed including RO plants where ever there is quality problem.

The capacity's of existing WTPs are as follows:

- | | |
|----------------------------|--------------------------|
| 1. RSF of 7.0 MLD capacity | @ Pendlipakala |
| 2. RSF of 9.0 MLD capacity | @ PD pally (Thripuraram) |
| 3. RSF of 3.0 MLD capacity | @ Peddavoora |
| 4. RSF of 5.0 MLD capacity | @ Halia |
| 5. RSF of 5.9 MLD capacity | @ Mupparam |

Salient features of this AKBR segment:

Constituencies covered	: 3
Mandals	: 15
Total Habitations	: 898
Population Rural 2011	: 688096
SC	: 118302
ST	: 108818
PLAIN	: 460976
Urban Habitation	: 1 (Devarakonda)
Population	: 39414
WTP	: 50 MLD plant at Kodandapuram, 70 MLD at Batlapally ,

THE SEGMENT WITH YELLAMPALLY HMWSSB LINE FROM GODAWARI AS SOURCE:

Main source selected for thisSegment is 2.50 MLD GLBR on GhanpurGutta (+620.00) in Shamirpetmandal of Ranga Reddy district.This reservoir gets water from the Pumping main laid by Hyderabad Metro Water works board (HMWSSB)

from 750 MLD treatment plant at Mallapur near Siddipet in Medak Dist. This project will draw raw water from Yellampally project (Godawari river) in Adilabad Dist. HMWSS laid this line as part of Godawari Drinking water supply project to the Hyderabad. The Clear water will be drawn from the Ghanpur GLBR (+620.00) will flow by gravity for both Bhuvanagiri and Alair constituencies comprises of 568 rural habitations and Bhuvanagiri Municipality. 10 % of the industrial demand also included. The industrial demand will be supplied to all primary and secondary lines in both constituencies.

Salient features of this segment:

Constituencies covered	: 2
Mandals	: 10
Total Habitations	: 568
Population Rural 2011	: 511930
SC	: 80155
ST	: 36858
PLAIN	: 394917
Urban Habitation	: 1 (Bhongir)
Population	: 39414

Salient features of Total (AKBR+HMWSS as source) segment:

Constituencies covered	: 5
Mandals	: 26
Total scope Habitations	: 1672
Population Rural	: 13,48,175
SC	: 2,19,441
ST	: 1,93,064
PLAIN	: 93,56,70
Urban Habitation	: 2 (Bhuvanagiri, Devarakonda)
Population	: 92,75,3
Urban ultimate Clear water Demand:	29.96 MLD
Habitations planned to get water from GRID:	
Rural Habitations:	1466
Population	: 12,00,026
Urban habitations:	2 (Bhuvanagiri, Devarakonda)

Urban Population : 92753

WTP : 50 MLD plant at Kodandapuram, 70 MLD at Batlapally ,

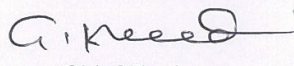
Raw Water demand : 2.791 TMC per Annum at ultimate year.

An amount of Rs.2106.00Crores has been administratively sanctioned vide GO .Rt. No 336Dt 01-06-2015 of PR & RD (RWSIV) Dept. The estimate is compiled in 2 Parts for convenience according to the nature of works. Those are:

Part A: The Segment With Akkampally Balancing Reservoir (AKBR) as
Source for Deavarakonda,Nagarjunasagar,Mungode Constituencies
With Estimated Cost Rs1306.00 Crores.

Part B: The Segment with Yellampally HMWSSB line (Godawari) Tapping
Point at Ghanpurgutta as Source for Alair and Bhongir
Constituencies with Est cost: Rs.800.00Crores


Superintending Engineer
TDWSP Circle Hyderabad


Chief Engineer,
TDWSP Hyderabad.

DETAILS OF SURVEY INSTRUMENTS USED				
S.No	Name of the Agency	Instruments used	Persons involved	Period of Survey
1	S&H Resources Informatics (P) Ltd. #Plot no: 5&6, 3rd floor, Lucid diagnostics building, Nizampet x roads, Hyderabad-500072	1. DGPS make : COMNAV T300	Sri.E Naresh AE, TDSWP - Mallepally Sri.Niranjan Sinha AEE, TDSWP - Mallepally	From December 2015 to February 2016
2	M/S.DGPSSURVEY.IN.H.No15- 31,BLOCK No-4, Flat No-6,2nd FloorOpp.K.S Bakers,JNTU Road,KPHB Colony,Kukatpally,Hyderabad- 500072 ,Contact:9000906000.	1. DGPS make : TRIMBLE SPS985	Sri.E Naresh AE, TDSWP - Mallepally Sri.Niranjan Sinha AEE, TDSWP - Mallepally	From December 2015 to February 2016

"Counter Signed"


Superintending Engineer
TDWSP Circle - Hyderabad


Chief Engineer
TDWSP, Hyderabad

Statement showing the proposal for permission for laying the drinking water supply pipe line in Wild life forest area in Nalgonda District under Chandampet Segment-3/2.

The area of operation for clearance is as follows :

Set No	Stretches	Length in mts	Dia of pipe in mm	Width	Depth	Area in Hectares
1	Gagillapur to pedhamula junction	3421.766	200	2.00	1.20	0.684
1	Chitriyala sump to road junction	10.207	200	5.00	1.20	0.005
1	Pedhamula OHBR to Pedhamula road junction	26.445	200	5.00	1.20	0.013
2	Kakanur Thanda to Rekula gadda	*4199.503	250	2.00	1.40	0.840
2	Venkatigani thanda to Dasarlapally	1687.946	80	1.00	1.20	0.169
2	Chitriyala junction to Nallachelamula	341.628	150	1.50	1.20	0.051
3	Rekula gadda to Usman kunta ELBR	5061.222	250	2.00	1.40	1.012
3	Usmnkunta to Banda Medi thanda Road junction	3394.375	150	1.50	1.20	0.509
3	Banda Medi thanda Road junction to Mangali thanda ELBR	3666.888	150	1.50	1.20	0.550
3	Mangali thanda ELBR to Mangali Thanda	4314.340	80	1.00	1.20	0.431
3	Path to Mangali thanda ELBR from road	66.651	0.00	5.00	1.20	0.033
3	Usmnkunta ELBR to Road junction	46.862	200	2.00	1.20	0.009
3	Banda Medi thanda Road junction to Banda meedi thanda thanda ELBR	66.638	200	5.00	1.20	0.033
3	Banda Medi thanda Road junction to Circle thanda	58.741	200	5.00	1.20	0.029
3	Banda Meedi thanda ELBR to road junction	13.690	200	5.00	1.20	0.007
4	Budda Thanda to Mannevarpally road junction	6045.530	150	1.50	1.20	0.907
4	Korutla junction to Korutla	336.46	150	1.5	1.20	0.050
4	K Gowraram to Gonaboinapally	1157.399	110	5	1.20	0.579
5	Yelamala manda to Bolaram	6781.541	200	2.00	1.20	1.356
5	Yelamalamanda road jn to Yelamalamanda Thanda	270.611	80	1.00	1.20	0.027

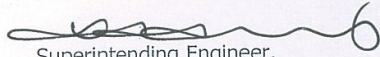
6	kambalapally to pogilla	6123.693	80	1.00	1.20	0.612
7	Guvvalagutta to kacharajupally Rd jn	5908.688	80	1.00	1.20	0.591
7	Suddabavi Thanda	605.974	80	1.00	1.20	0.061
8	Pedhamunigal to Bugga thanda jn	353.650	80	1.00	1.20	0.035
8	Bugga Thanda to Vizag colony	1341.694	80	1.00	1.20	0.134
8	Bugga Thanda Jn to Kacharajupally Jn	2136.527	80	1.00	1.20	0.214
9	Puttamgandi Thanda to Pavurala Gattu	4358.263	80	1.00	1.20	0.436
9	Pavuralagattu Sump to ELBR	196.400	80	5.00	1.20	0.098
10	Yellapur to Burdagattu Thanda	7852.959	80	1.00	1.20	0.785
10	Yellapur Jn to ELBR(Pedhagattu)	4375.748	80	1.00	1.20	0.438
10	ELBR to Pedhagattu Thanda	16.821	200	5.00	1.20	0.008
11	Potti Chelama(PWD Colony) to Yerra Cheruvu	4957.341	150	1.50	1.20	0.744
11	Thirumalaiah swamy temple to ELBR	131.625	200	5.00	1.20	0.066
12	Manupat Thanda to Jamalkunta Thanda	1991.339	80	1.00	1.20	0.199
12	Nellikal Junction to Mula Thanda	2022.757	80	1.00	1.20	0.202
13	Godamadaka to Tunikintla	1717.142	80	1.00	1.20	0.172
13	Godamadaka to Iruku Thanda	469.093	80	1.00	1.20	0.047
14	Kompally to Sunkishala Thanda	2500.423	100	1.50	1.20	0.375
14	Sunkishala Thanda Jn to ELBR Jn	809.438	100	1.50	1.20	0.121
14	ELBR Jn To ELBR	165.440	200	5.00	1.20	0.083
14	ELBR Jn To Yellapur Thanda	1339.303	100	1.50	1.20	0.201
1	Yellammagattu sump	-	-	-	-	0.056
1	ELBR at Chitriyala Peak	-	-	-	-	0.100
1	OHBR at Pdhamula	-	-	-	-	0.053

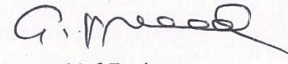
3	ELBR at Osmankunta rd jn	-	-	-	-	0.058
3	ELBR at Bandameedi thanda rd jn	-	-	-	-	0.030
3	ELBR at Mangali thanda rd	-	-	-	-	0.030
9	Sump at Pavurala gattu	-	-	-	-	0.041
9	ELBR At Pavurala gattu	-	-	-	-	0.043
10	ELBR at Pedha Gattu	-	-	-	-	0.040
11	ELBR at Thirumalaiah Swamy Temple	-	-	-	-	0.057
14	ELBR at Sunkishala Thanda	-	-	-	-	0.044
14	GLBR At Yellapur	-	-	-	-	0.064
Total		90342.761				13.532

Area required

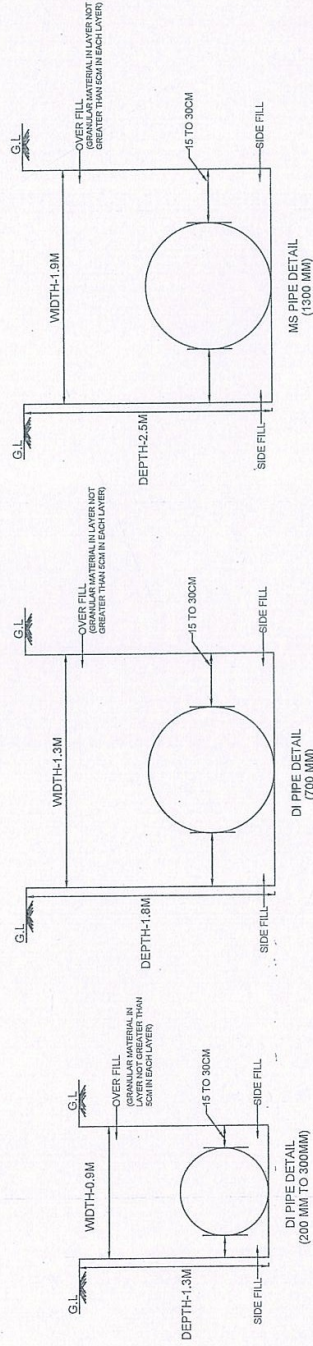
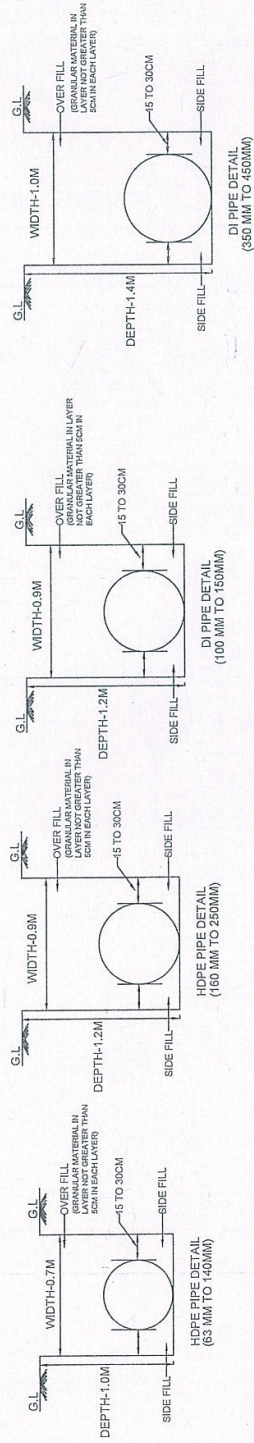
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"Counter Signed"


Superintending Engineer,
TDWSP Circle,
Hyderabad.


Chief Engineer,
TDWSP Hyderabad

TELANGANA DRINKING WATER SUPPLY PROJECT SEGMENT-3/1 AKBR
MAP SHOWING PIPELINE CROSS-SECTION IN FOREST AREA OF AKBR Nalgonda



G. Inaba
Chief Engineer
TDWSP-Hyderabad

[Signature]
Superintending Engineer
TDWSP Circle-Hyderabad

Beat Wise Details - Chandampet Segment 3/2 Nalgonda

S.No	DISTRICT	SEGMENT NAME	COMP_NO	DIVISION	RANGE	BEAT	SECTION
1	Nalgonda	Seg - 3/2 NLG	67	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	YELLAPUR	RAJAWARAM
2	Nalgonda	Seg - 3/2 NLG	66	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	NELLIKAL	RAJAWARAM
3	Nalgonda	Seg - 3/2 NLG	66	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	YELLAPUR	RAJAWARAM
4	Nalgonda	Seg - 3/2 NLG	66	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	YELLAPUR	RAJAWARAM
5	Nalgonda	Seg - 3/2 NLG	74	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	NELLIKAL	RAJAWARAM
6	Nalgonda	Seg - 3/2 NLG	72	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	NELLIKAL	RAJAWARAM
7	Nalgonda	Seg - 3/2 NLG	64	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	TUNKINUTHALA	RAJAWARAM
8	Nalgonda	Seg - 3/2 NLG	64	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	TUNKINUTHALA	RAJAWARAM
9	Nalgonda	Seg - 3/2 NLG	76	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	PEDAGATTU	WADDIPATLA
10	Nalgonda	Seg - 3/2 NLG	70	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	NAGARJUNASAGAR	WADDIPATLA
11	Nalgonda	Seg - 3/2 NLG	69	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	NAGARJUNASAGAR	WADDIPATLA
12	Nalgonda	Seg - 3/2 NLG	77	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	PEDAGATTU	WADDIPATLA
13	Nalgonda	Seg - 3/2 NLG	81	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	PEDAGATTU	WADDIPATLA
14	Nalgonda	Seg - 3/2 NLG	84	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	WADDIPATLA	WADDIPATLA
15	Nalgonda	Seg - 3/2 NLG	84	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	WADDIPATLA	WADDIPATLA
16	Nalgonda	Seg - 3/2 NLG	84	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	WADDIPATLA	WADDIPATLA
17	Nalgonda	Seg - 3/2 NLG	148	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
18	Nalgonda	Seg - 3/2 NLG	148	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
19	Nalgonda	Seg - 3/2 NLG	148	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
20	Nalgonda	Seg - 3/2 NLG	159	NALGONDA	DEVARAKONDA	GONEBOINAPALLY	DEVARAKONDA
21	Nalgonda	Seg - 3/2 NLG	143	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
22	Nalgonda	Seg - 3/2 NLG	157	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
23	Nalgonda	Seg - 3/2 NLG	157	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
24	Nalgonda	Seg - 3/2 NLG	146	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
25	Nalgonda	Seg - 3/2 NLG	136	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
26	Nalgonda	Seg - 3/2 NLG	135	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
27	Nalgonda	Seg - 3/2 NLG	141	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
28	Nalgonda	Seg - 3/2 NLG	141	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
29	Nalgonda	Seg - 3/2 NLG	141	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
30	Nalgonda	Seg - 3/2 NLG	141	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
31	Nalgonda	Seg - 3/2 NLG	156	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
32	Nalgonda	Seg - 3/2 NLG	133	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
33	Nalgonda	Seg - 3/2 NLG	133	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
34	Nalgonda	Seg - 3/2 NLG	120	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
35	Nalgonda	Seg - 3/2 NLG	122	NAGARJUNASAGAR WLM	DEVARAKONDA	KOTHAPALLY	CHITRIYALA
36	Nalgonda	Seg - 3/2 NLG	122	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
37	Nalgonda	Seg - 3/2 NLG	122	NAGARJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPAALLI	KAMBALLAPAALLI
38	Nalgonda	Seg - 3/2 NLG	122	NAGARJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPAALLI	KAMBALLAPAALLI
39	Nalgonda	Seg - 3/2 NLG	121	NAGARJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPAALLI	KAMBALLAPAALLI
40	Nalgonda	Seg - 3/2 NLG	130	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
41	Nalgonda	Seg - 3/2 NLG	115	NAGARJUNASAGAR WLM	DEVARAKONDA	REKULARAM	KAMBALLAPAALLI
42	Nalgonda	Seg - 3/2 NLG	117	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
43	Nalgonda	Seg - 3/2 NLG	124	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
44	Nalgonda	Seg - 3/2 NLG	126	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
45	Nalgonda	Seg - 3/2 NLG	94	NAGARJUNASAGAR WLM	DEVARAKONDA	REKULARAM	KAMBALLAPAALLI
46	Nalgonda	Seg - 3/2 NLG	117	NAGARJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPAALLI	KAMBALLAPAALLI
47	Nalgonda	Seg - 3/2 NLG	117	NAGARJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPAALLI	KAMBALLAPAALLI
48	Nalgonda	Seg - 3/2 NLG	103	NAGARJUNASAGAR WLM	DEVARAKONDA	POGILLA	KAMBALLAPAALLI
49	Nalgonda	Seg - 3/2 NLG	104	NAGARJUNASAGAR WLM	DEVARAKONDA	POGILLA	KAMBALLAPAALLI
50	Nalgonda	Seg - 3/2 NLG	66	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	YELLAPUR	RAJAWARAM
51	Nalgonda	Seg - 3/2 NLG	66	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	YELLAPUR	RAJAWARAM
52	Nalgonda	Seg - 3/2 NLG	74	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	NELLIKAL	RAJAWARAM
53	Nalgonda	Seg - 3/2 NLG	77	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	PEDAGATTU	WADDIPATLA
54	Nalgonda	Seg - 3/2 NLG	84	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	WADDIPATLA	WADDIPATLA
55	Nalgonda	Seg - 3/2 NLG	84	NAGARJUNASAGAR WLM	NAGARJUNASAGAR	WADDIPATLA	WADDIPATLA
56	Nalgonda	Seg - 3/2 NLG	148	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
57	Nalgonda	Seg - 3/2 NLG	148	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA
58	Nalgonda	Seg - 3/2 NLG	122	NAGARJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPAALLI	KAMBALLAPAALLI
59	Nalgonda	Seg - 3/2 NLG	124	NAGARJUNASAGAR WLM	DEVARAKONDA	BOLLARAM	KAMBALLAPAALLI
60	Nalgonda	Seg - 3/2 NLG	117	NAGARJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPAALLI	KAMBALLAPAALLI
61	Nalgonda	Seg - 3/2 NLG	149	NAGARJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA

Superintending Engineer
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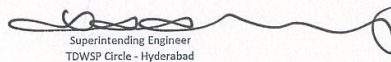
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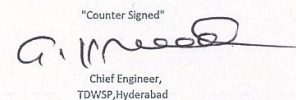
Chief Engineer,
TDWSP, Hyderabad

DETAILS OF FOREST AREA INVOLVED - NALGONDA DIVISION

Set No	Division	Range	Section	Beat	Compt. No	Stretches	Details	Length in 'm'	Width in 'm'	Pipeline Area in "ha"	Structur es Area in "ha"	Total Area in 'Ha'
14	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	YELLAPUR	67		Pipeline.	809.438	1.500	0.121	0.000	0.121
14	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	NELLIKAL	66		Pipeline	2500.423	1.500	0.375	0.000	0.375
14	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	YELLAPUR	66		Pipeline	1339.303	1.500	0.201	0.000	0.201
14	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	YELLAPUR	66		Pipeline	165.440	5.000	0.083	0.000	0.083
11	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	NELLIKAL	74		Pipeline	131.625	5.000	0.066	0.000	0.066
11	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	NELLIKAL	72		Pipeline	4957.341	1.500	0.744	0.000	0.744
13	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	TUNKINUTHALA	64		Pipeline	1717.142	1.000	0.172	0.000	0.172
13	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	TUNKINUTHALA	64		Pipeline	469.093	1.000	0.047	0.000	0.047
10	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	PEDAGATTU	76		Pipeline	4375.748	1.000	0.438	0.000	0.438
12	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	NAGARIJUNASAGAR	70		Pipeline	2022.757	1.000	0.202	0.000	0.202
12	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	NAGARIJUNASAGAR	69		Pipeline	1991.339	1.000	0.199	0.000	0.199
10	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	PEDAGATTU	77		Pipeline	16.821	5.000	0.008	0.000	0.008
10	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	PEDAGATTU	81		Pipeline	7852.959	1.000	0.785	0.000	0.785
9	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	WADDIPATLA	84		Pipeline	4358.263	1.000	0.436	0.000	0.436
9	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	WADDIPATLA	84		Pipeline	52.772	5.000	0.026	0.000	0.026
9	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	WADDIPATLA	84		Pipeline	143.628	5.000	0.072	0.000	0.072
1	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	148		Pipeline	3421.766	2.000	0.684	0.000	0.684
1	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	148		Pipeline	10.207	5.000	0.005	0.000	0.005
1	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	148		Pipeline	26.445	5.000	0.013	0.000	0.013
4	NALGONDA	DEVARAKONDA	DEVARAKONDA	GONEBOINAPALLY	159		Pipeline	1157.399	5.000	0.579	0.000	0.579
8	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	143		Pipeline	353.650	1.000	0.035	0.000	0.035
4	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	157		Pipeline	2205.857	1.500	0.331	0.000	0.331
4	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	157		Pipeline	2134.769	1.500	0.320	0.000	0.320
2	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	146		Pipeline	1687.946	1.000	0.169	0.000	0.169
2	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	136		Pipeline	4199.503	2.000	0.840	0.000	0.840
2	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	135		Pipeline	341.628	1.500	0.051	0.000	0.051
8	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	141		Pipeline	1446.062	1.000	0.145	0.000	0.145
8	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	141		Pipeline	1341.694	1.000	0.134	0.000	0.134
7	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	141		Pipeline	605.974	1.000	0.061	0.000	0.061
8	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	141		Pipeline	690.465	1.000	0.069	0.000	0.069
4	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	156		Pipeline	1246.031	1.500	0.187	0.000	0.187
4	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	133		Pipeline	336.460	1.500	0.050	0.000	0.050
4	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	133		Pipeline	458.873	1.500	0.069	0.000	0.069
7	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	120		Pipeline	5908.688	1.000	0.591	0.000	0.591
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	KOTHAPALLY	122		Pipeline	3394.375	1.500	0.509	0.000	0.509
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	122		Pipeline	5061.222	2.000	1.012	0.000	1.012
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	KAMBALLAPALLI	122		Pipeline	66.651	5.000	0.033	0.000	0.033
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	KAMBALLAPALLI	122		Pipeline	46.862	2.000	0.009	0.000	0.009
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	KAMBALLAPALLI	121		Pipeline	4314.340	1.000	0.431	0.000	0.431
5	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	130		Pipeline	6781.541	2.000	1.356	0.000	1.356
6	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	REKULARAM	115		Pipeline	1001.963	1.000	0.100	0.000	0.100
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	117		Pipeline	3666.888	1.500	0.550	0.000	0.550
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	124		Pipeline	13.690	5.000	0.007	0.000	0.007
5	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	126		Pipeline	270.611	1.000	0.027	0.000	0.027
6	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	REKULARAM	94		Pipeline	2582.281	1.000	0.258	0.000	0.258
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	KAMBALLAPALLI	117		Pipeline	66.638	5.000	0.033	0.000	0.033
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	KAMBALLAPALLI	117		Pipeline	58.741	5.000	0.029	0.000	0.029
6	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	POGILLA	103		Pipeline	2209.937	1.000	0.221	0.000	0.221
6	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	POGILLA	104		Pipeline	329.512	1.000	0.033	0.000	0.033
14	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	YELLAPUR	66		structure	0.000	0.000	0.000	0.044	0.044
14	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	YELLAPUR	66		structure	0.000	0.000	0.000	0.064	0.064
11	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	RAJAWARAM	NELLIKAL	74		structure	0.000	0.000	0.000	0.057	0.057
10	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	PEDAGATTU	77		structure	0.000	0.000	0.000	0.043	0.043
9	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	WADDIPATLA	84		structure	0.000	0.000	0.000	0.041	0.041
9	NAGARIJUNASAGAR WLM	NAGARIJUNASAGAR	WADDIPATLA	WADDIPATLA	84		structure	0.000	0.000	0.000	0.100	0.100
1	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	148		structure	0.000	0.000	0.000	0.056	0.056
1	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	148		structure	0.000	0.000	0.000	0.030	0.030
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	KAMBALLAPALLI	122		structure	0.000	0.000	0.000	0.030	0.030
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	BOLLARAM	124		structure	0.000	0.000	0.000	0.058	0.058
3	NAGARIJUNASAGAR WLM	DEVARAKONDA	KAMBALLAPALLI	KAMBALLAPALLI	117		structure	0.000	0.000	0.000	0.030	0.030
1	NAGARIJUNASAGAR WLM	DEVARAKONDA	CHITRIYALA	CHITRIYALA	149		structure	0.000	0.000	0.000	0.053	0.053

Total
Area in
"Ha" 12.916 0.616 13.532


Superintending Engineer
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Chief Engineer,
TDWSP, Hyderabad

FLOW DIAGRAM



LEGEND	
Raw Water Pipeline	
Clear Water Pipeline	
Pipeline in RF	

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TDWSP, Hyderabad

AREA STATEMENT - CHANDAMPET SEGMENT - 3/2 - NALGONDA						
SET	STRUCTURE TYPE	PIPE DIA IN MM	WIDTH IN M	LENGTH IN M	AREA IN Ha	TOTAL AREA IN Ha
1	PIPELINE	200	2.000	3421.766	0.684	
	PIPELINE	200	5.000	10.207	0.005	
	PIPELINE	200	5.000	26.445	0.013	0.911
	OHBR	-	-	-	0.053	
	ELBR	-	-	-	0.100	
	SUMP	-	-	-	0.056	
2	PIPELINE	250	2.000	4199.503	0.840	
	PIPELINE	80	1.000	1887.946	0.169	1.060
	PIPELINE	150	1.500	341.628	0.051	
	PIPELINE	250	2.000	5061.222	1.012	
	PIPELINE	80	1.000	4314.540	0.431	
	PIPELINE	150	1.500	3394.375	0.509	
	PIPELINE	0	5.000	66.651	0.033	
	PIPELINE	200	2.000	46.862	0.009	
3	PIPELINE	200	5.000	66.638	0.033	
	PIPELINE	200	5.000	58.741	0.029	2.731
	PIPELINE	200	5.000	13.690	0.007	
	PIPELINE	150	1.500	3666.888	0.550	
	ELBR	-	-	-	0.058	
	ELBR	-	-	-	0.030	
	ELBR	-	-	-	0.030	
4	PIPELINE	150	1.500	336.460	0.050	
	PIPELINE	150	1.500	458.873	0.069	
	PIPELINE	150	1.500	2205.857	0.331	1.536
	PIPELINE	150	1.500	2134.769	0.320	
	PIPELINE	150	1.500	1246.031	0.187	
	PIPELINE	110	5.000	1157.399	0.579	
	PIPELINE	200	2.000	6781.541	1.356	
5	PIPELINE	80	1.000	270.611	0.027	1.383
	PIPELINE	80	1.000	2582.281	0.258	
6	PIPELINE	80	1.000	329.512	0.033	0.612
	PIPELINE	80	1.000	1001.963	0.100	
	PIPELINE	80	1.000	2209.937	0.221	
7	PIPELINE	80	1.000	5908.688	0.591	0.652
	PIPELINE	80	1.000	605.974	0.061	
	PIPELINE	80	1.000	1446.062	0.145	
	PIPELINE	80	1.000	1341.694	0.134	
8	PIPELINE	80	1.000	690.465	0.069	0.383
	PIPELINE	80	1.000	353.650	0.035	
	PIPELINE	80	1.000	4358.263	0.436	
	PIPELINE	80	5.000	52.772	0.026	
9	PIPELINE	80	5.000	143.628	0.072	0.618
	ELBR	-	-	-	0.043	
	SUMP	-	-	-	0.041	
	PIPELINE	80	1.000	7852.959	0.785	
10	PIPELINE	80	1.000	4375.748	0.438	1.271
	PIPELINE	200	5.000	16.821	0.008	
	ELBR	-	-	-	0.040	
	PIPELINE	150	1.500	4957.341	0.744	
11	PIPELINE	200	5.000	131.625	0.066	0.867
	ELBR	-	-	-	0.057	
12	PIPELINE	80	1.000	1391.339	0.139	0.401
	PIPELINE	80	1.000	2022.757	0.202	
13	PIPELINE	80	1.000	1717.142	0.172	0.219
	PIPELINE	80	1.000	469.093	0.047	
	PIPELINE	100	1.500	2500.423	0.375	
	PIPELINE	100	1.500	1339.303	0.201	
14	PIPELINE	100	1.500	809.438	0.121	0.888
	PIPELINE	200	5.000	165.440	0.083	
	GLBR	-	-	-	0.044	
	ELBR	-	-	-	0.064	
TOTAL				90342.761	13.532	13.532


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