

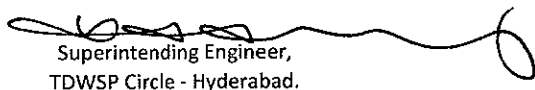
Enclosure 2

CHECK LIST

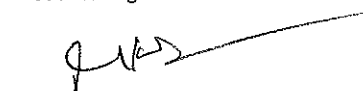
For the proposal for Diversion of Forest Lands for non-Forestry purpose under the Forest Conservation Act, 1980 for Linear Projects: Railway/UG Gas Pipeline/Water Pipeline/Optical Fibre/Electricity Lines etc.

State S. No. of Project:				
Date of receipt in NO-PCCF's office:				
Name of the Project:		Construction of Clear Water ELBRs and Laying of Pipe Line for 8 Constituencies in Nalgonda District under Segment - 05		
Area proposed for diversion, in Ha:		1.481		
Name of the Forest Division:		Nalgonda		
Whether area proposed falling in WLS / NP / ESZ / Biosphere Reserve or WL Corridor?		No		
Whether situated in Scheduled Area		No		
S. No.	Name of Document/Information	Provided or Not (Yes/No)	Page No.	Remarks
A	PART-I			
1	Main application Form from Part-I to V with all its columns duly filled up and signed by the competent authority with date, place and their official seal.	Yes	3-11	
2	Detailed note on the project.	Yes	1-2	
3	Full Justification for locating the project in forest area (un-avoidance of the forest area for the purpose)	Yes	31	
4	Certificate for minimum use of forest land giving details of the alternatives examined and reasons for their rejection.	Yes	14	
5	Map of the project site forest area demanded on original Survey of India topo-sheet in 1:50000 or any other suit- able scale; clearly showing forest boundaries and adjoining areas with their land use in distinct colors.	Yes	37	
6	Index Map, if the area is very small, showing forest boundaries and a location map on a larger scale with land use of the area required.	Yes	35-36	
7	Geo-referenced digital data (e00 format, Geographic co-ordinate system WGS 84 datum, readings up to 8 decimal places in degrees) of the boundary/ies of the proposed FL for diversion in Shape file (Soft copy in a DVD along with RAW & post-processed data) and digital map in hard copy duly authenticated by competent authority. *The survey shall be performed using DGPS in real-time or post-processed mode. However the survey may be performed using TS in GPS shadow areas, and data shall be duly geo-referenced using GCPs collected by dual frequency DGPS receivers.	Yes	Submitted	
8	Make & Model of the DGPS equipment used, Names of the Agency/persons involved in the DGPS survey, period of survey, name of the authenticating agency for the accuracy of the survey.	Yes	32	
9	Linear map or a diagrammatic map of the project site.	Yes	33	
10	Statement showing the details of forest area involved i.e. Division, Range, Beat, Forest Block & Compartment No. wise.	Yes	29	
11	Item wise breakup of the forest area proposed for di- version, if any.	Yes	27-28	
12	Cost Benefit (CB) analysis in prescribed format, wher- ever required.(For projects involving area of >20 Ha in plains & >5 Ha in hills)	Yes	26	
13	Status of clearance under Environment (Protection) Act, 1986 & Rules 2006; wherever required.	No	-	

14	Detailed scheme for rehabilitation of project affected persons, wherever required.	No	-	
15	Minimum distance of the proposed site from Wildlife Sanctuary and/or National Park, if any.	No	-	
16	To show the existing Water body / Water channel or road, which should be identifiable.	No	-	
17	To show the newly proposed bridge /culvert / under- ground pass / tunnel etc. to be identify clearly.	No	-	
18	To enclose the cross section Plan / Map indicating dimension of (Length / Width / Height /depth etc) clearly.	Yes	34	
19	Undertaking to pay the Net Present Value (NPV), Addl. NPV of the forest land involved.	Yes	15	
20	Undertaking to pay the Extraction Charges of the trees to be removed from the forest land involved.	Yes	16	
21	Details of equivalent non-forest land identified for Compensatory Afforestation viz. Survey No., Village, Tahsil /Mandal, District etc. along with map in SOI Topo-sheet in 1:50000 or appropriate scale along with the boundaries of adjoining forest area.	NA	-	
22	Geo-referenced digital data of CA land (e00 format, Geographic co-ordinate system WGS 84 datum, read- ings up to 8 decimal places in degrees) of the boundary/ ies of the proposed FL for diversion in Shape file (Soft copy in a DVD along with RAW & post-processed data) and digital map in hard copy duly authenticated by competent authority. * The survey shall be performed using DGPS in real-time or post-processed mode. However the survey may be performed using TS in GPS shadow areas, and data shall be duly geo-referenced using GCPs collected by dual frequency DGPS receivers.	NA	-	
23	Make & Model of the DGPS equipment used, Name/s of the Agency/persons involved in the DGPS survey, period of survey, name of the authenticating agency for the accuracy of the survey.	Yes	32	
24	Certificates a, c, d, g & h under RoFR Act; where Primi- five Tribal Groups (PTG) & Pre-Agricultural Commu- nities (PAC) are involved in the proposed FL.	Will be submitted to DFO Nalgonda	-	


 Superintending Engineer,
 TDWSP Circle - Hyderabad.

"Counter Signed"


 Chief Engineer,
 TDWSP, Hyderabad.

Brief Notes on Segment 04

TELANGANA DRINKING WATER SUPPLY PROJECT IN NALGONDA DISTRICT

EST COST Rs: 289.00 Crores

PROFILE

As a part of Telangana Drinking Water Supply Project, the Nalgonda Augmentation Segment is planned for augmentation of 5 Existing CPWS schemes which cover 8 constituencies of Nalgonda district.

Sub Segment	source
1. HMWS at Thirumalagiri	HMWS tapping at Singarajupally
2. Thungaturthy	Plair Reservoir
3. Mothey	Plair Reservoir
4. Suryapet	Plair Reservoir
5. Udayasamudram	Udayasamudram Reservoir.

The Constituencies to be covered under this project are Nalgonda, Nakirekal, Thungaturty, Munugode, Suryapet, Kodad in Nalgonda District.

Major source selected for this project is Krishna River. The Udayasamudram reservoir fed by the AMR Lift Irrigation Project and the Plair reservoir by the Nagarjuna Sagar Project Left Canal.

Administrative Sanction Details:

Sub Segment	Estimated Cost
1. HMWS at Tirumalagiri	40.00 Crore
2. Thungaturthy	45.00 Crore
3. Mothey	15.00 Crore
4. Suryapet	54.00 Crore
5. Udayamasudram	135.00 Crore

EXISTING WATER SUPPLY SYSTEM IN THE DISTRICT

The habitations in the district are covered mostly by individual schemes (SVS) using ground water as source and certain habitations are covered by surface water through MVS schemes.

METHODOLOGY:

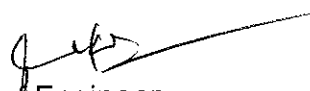
As a part of Telangana Drinking Water Supply Project (TDWSP), it is proposed to cover all habitations in the district by surface water to ensure 100 LPCD at household level. The methodology adopted is to draw surface water from river Krishna and supplying the water after treatment to the habitations through 5 Sub segments with surface water source as follows:

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.

Salient features of this segment:

Constituencies covered	: 8
Mandals	: 20
Habitations	: 1042
Urban Habitation	: 1 (Nalgonda)
Population	: 1133157
WTP Existing	:
	1. 20 MLD Plant for Thungaturthy Sub Segment
	2. 5 MLD Plant for Mothey Sub Segment
	3. 18 MLD Plant for Suryapet Sub Segment
	4. 93.8 MLD Plant for Udayasamudram Sub Segment
WTP Existing	: Nill
Primary Pipeline	: 21.2 KM
Secondary Pipeline	: 1293.77 KM


Superintending Engineer
TDWSP Circle Hyderabad


Chief Engineer,
TDWSP Hyderabad.

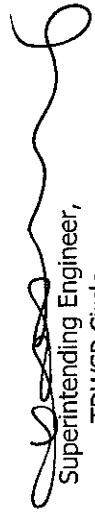
Statement showing the proposal for permission for laying the drinking water supply pipe line in reserve forest area in Nalgonda District.

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	Inlet & Outlet Clear Water Pipelines for ELBR at Padamati Thanda	236.906	500	10.00	3.00	0.237
2	ELBR on Padamati Thanda					0.024
2	Inlet & Outlet Clear Water Pipeline at Kodur Gutta	1139.801	700	10.00	3.00	1.140
3	ELBR at Kodur Gutta					0.080
Total		1376.71				1.481

Area required 1.481 Ha

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Superintending Engineer,
TDWSP Circle,
Hyderabad.



Chief Engineer,
TDWSP Hyderabad

DETAILS OF FOREST AREA INVOLVED - NALGONDA DIVISION


Set No	Division	Range	Section	Beat	Compt . No	Pipe Dia in 'mm'	Length in 'm'	Width in 'm'	AREA IN SQ M	Pipeline Area in "ha"	Structur es Area in "ha"	Total Area in 'Ha'
1	Nalgonda	Miryalguda	Janpahad	Indergonda		700	1139.801	10.000	11398	1.140	0.000	1.140
1	Nalgonda	Miryalguda	Janpahad	Indergonda					100.000	0.000	0.010	0.010
1	Nalgonda	Miryalguda	Janpahad	Indergonda					700.000	0.000	0.070	0.070
2	Nalgonda	Miryalguda	Janpahad	Indergonda		500	236.906	10.000	2369	0.237	0.000	0.237
2	Nalgonda	Miryalguda	Janpahad	Indergonda					240.000	0.000	0.024	0.024

Total
Area in
"Ha"

1.377 0.104 1.481


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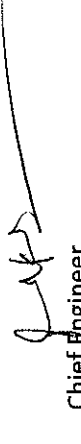
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TDWSP, Hyderabad

Beat Wise Details - Seg 05 Nalgonda


S.No	DISTRICT	SEGMENT NAME	COMP_NO	DIVISION	RANGE	BEAT	SECTION
1	Nalgonda	Seg - 05 NLG		Nalgonda	Miryalguda	Indergonda	Janpahad
2	Nalgonda	Seg - 05 NLG		Nalgonda	Miryalguda	Indergonda	Janpahad


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 TDWSP Circle Hyderabad


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 TDWSP Hyderabad

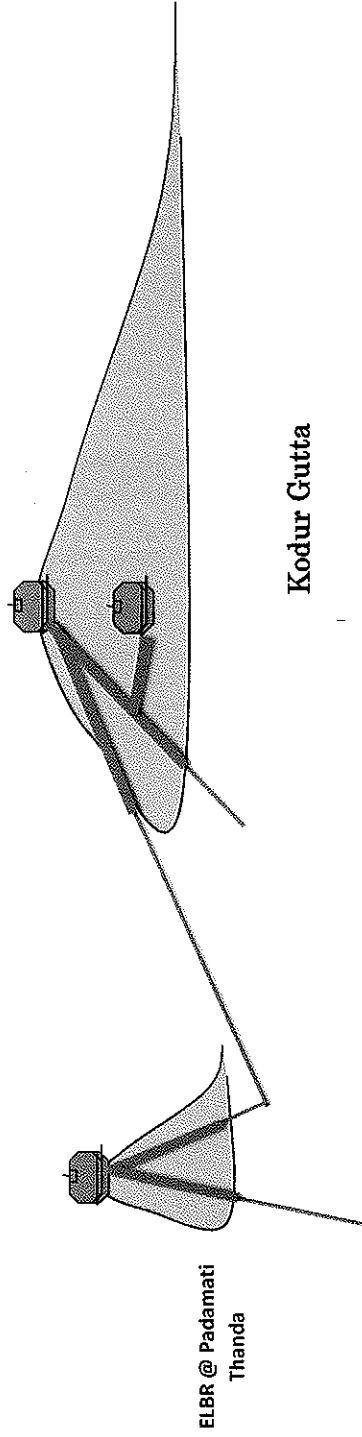
DETAILS OF SURVEY INSTRUMENTS USED				
S.No	Name of the Agency	Instruments used	Persons involved	Period of Survey
1	M/s Mega Star Survey & Consultants India Pvt. Limited, Chennai	1.DGPS make: Leica Geosystems 1200 + Series	Sri. B Ramakrishna AEE, TDSWP - Suryapet	From November 2015 to December 2015

"Counter Signed"


Superintending Engineer
TDWSP Circle - Hyderabad


Chief Engineer
TDWSP, Hyderabad

FLOW DIAGRAM
TELANGANA DRINKING WATER SUPPLY PROJECT
SEGMENT-05,NALGONDA DISTRICT.



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 Superintending Engineer

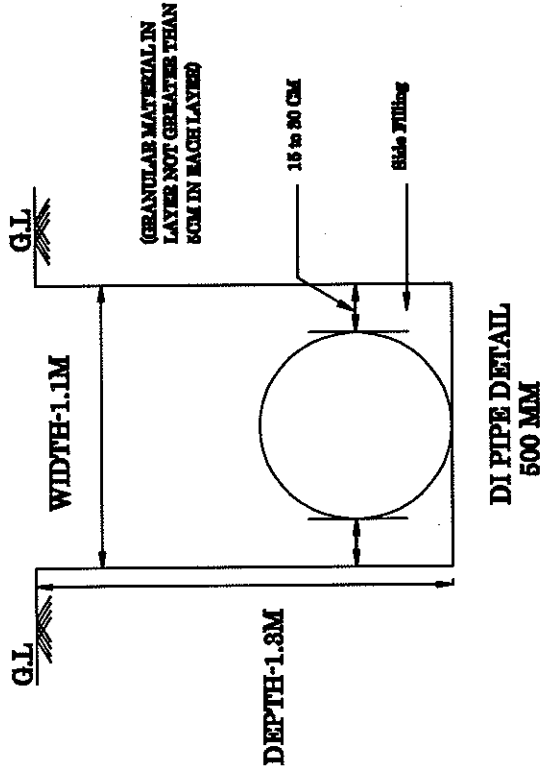
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 Chief Engineer

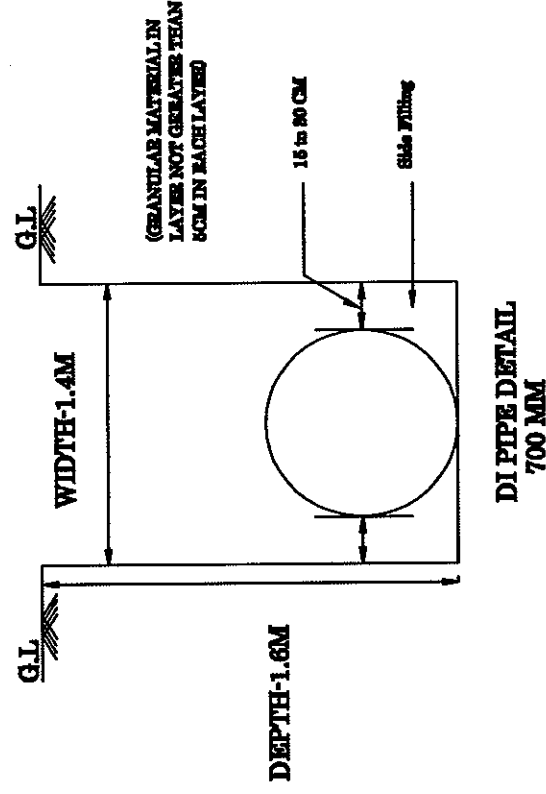
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LEGEND	
Clear Water Pipeline	
Pipeline in RF	
Structure in RF	

**TELANGANA DRINKING WATER SUPPLY PROJECT SEGMENT-06 NALGONDA
MAP SHOWING PIPELINE CROSS-SECTION IN FOREST AREA OF NALGONDA.**



Not to Scale



[Signature]
Superintending Engineer,
TDWSP Circle - Hyderabad

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Chief Engineer,
TDWSP Hyderabad