

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:	Laying of Pipe Line and Construction of Structures to Providing safe Drinking Water in Sathupalli Constituency in Khammam District – Segment 26/1
Area proposed for diversion, in Ha:	4.023
Name of the Forest Division:	Khammam
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 col- umns duly filled up and signed by the competent authority with date, place and their official seal.	Yes	1-9	
2	Detailed note on the project.	Yes	10-14	
3	Full Justification for locating the project in forest area (un-avoidance of the forest area for the purpose)	Yes	15-18	
4	Certificate for minimum use of forest land giving details of the alternatives examined and reasons for their rejection.	Yes	19	
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	20	
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	21	
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		
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	22	
9	Linear map or a diagrammatic map of the project site.	Yes	23	
10	Statement showing the details of forest area involved i.e. Division, Range, Beat, Forest Block & Compartment No. wise.	Yes	24	
11	Item wise breakup of the forest area proposed for di- version, if any.	Yes	25	
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	27	
19	Undertaking to pay the Net Present Value (NPV), Addl. NPV of the forest land involved.	Yes	28	
20	Undertaking to pay the Extraction Charges of the trees to be removed from the forest land involved.	Yes	29	
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, 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.	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.	NA	-	
24	Certificates a, c, d, g & h under RoFR Act; where Primitive Tribal Groups (PTG) & Pre-Agricultural Communities (PAC) are involved in the proposed FL.	-	-	


Superintending Engineer
TDWSP Circle, Khammam

"Counter Signed"


Chief Engineer
TDWSP, Hyderabad

DETAILED NOTE ON THE PROJECT

Back ground and need of the Project:

Safe drinking water is primary need of life. Contaminated drinking water is causing health hazards to millions of people. Scarcity of water is also one of the problems which hamper the social and economical development of the people.

Provision of safe drinking water deserves priority to improve the health and economical development of the area. Govt. of Telangana has announced a prestigious project "Telangana drinking water Supply Project" in which the aim is to provide safe drinking water to all the habitations from surface sources on sustainable basis with enhanced supply level of 100 liters per head.

Details of the Project:

For this segment 26/1 under Phase-I, the government have sanctioned an amount of Rs.155.00 Crores vide GO.MS. No.82, Dt.07-02-2015 of PR&RD and the following item of works will be taken up:

1. Intake well in Wyra reservoir for 11 Mandals of Wyra segment.
2. Raw water pumping mains to WTP at Kanakagiri Reserve Forest.
3. 50MLD Water Treatment Plant at kanakagiri Forest.

The project is located in Khammam District. The Intakewell is at Wyra Reservoir in Wyra mandal, Raw water pumping main is from Wyra intakewell to Kanakagiri hills WTP near Gudur village in Kallur mandal. The gravity pipe lines will be laid nearer to Gudur village in Kallur Mandal. The WTP proposed at Gudur beat in Kallur section near Gudur village in Kallur Mandal to supply treated water to Sathupalli Constituency. By this work the Raw water will be pumped from the Intake well to proposed Water Treatment Plant in Kanakagiri Reserve Forest then treated water will be distributed by gravity mains mainly to cover 182 habitations of Sathupalli Constituency.


Proposed Project area and coverage in Segment – 26/1:

Name of Source	::	Wyra Reservoir (2.52 TMC)	
Constituencies Covering	::	Sathupalli	
No. of Mandals Covering	::	4 Mandals	
No. of Habs Covering	::	182 Habitations	
Population Covering	::	Rural	217497
Water Requirement (2048)	::	0.436 TMC	
Length of Trunk Main	::	20.7 Km.	
Length of Secondary Mains	::	445 Km.	
No. Of Treatment Plants	::	1 No., 50 MLD	
Total Cost of the Segment	::	Rs. 155.00 Cr.	

The raw water will be collected at Wyra Reservoir and then it will be pumped with pumping main of 1000mm dia DI Pipeline passes through the forest at end where it enters into WTP for a length of 422 rmt only. The raw water will be treated at 50MLD Water Treatment Plant in Kanakagiri Reserve Forest area at Guduru Beat in forest land. The treated water will be distributed by gravity pipeline passes through the forest for a length of 422 rmt only to cross forest land from WTP to non forest land then water will be supplied to Kallur, Penuballi & Vemsoor & Thallda Mandals in Sathupalli constituency. The gravity mains are one is 300mm dia. and other one is 700mm dia. which will be laid adjacent to raw water pumping main.

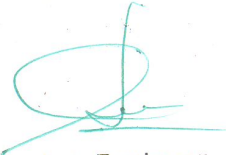

Superintending Engineer
RWS&S Circle, Khammam

"Counter Signed"


Chief Engineer
TDWSP, Hyderabad

3. CERTIFICATE

This is to certify that the Proposed Forest area for Diversion is the Minimum and is essentially required for **"TELANGANA DRINKING WATER SUPPLY PROJECT for Laying of Pipe line and Construction of Other Structures for providing safe Drinking Water in Khammam District – Segment 26/1 in Sathupalli Constituency."**



Superintending Engineer
TDWSP Circle,
Khammam.

"Counter Signed"



Chief Engineer
TDWSP, Hyderabad

DETAILS OF SURVEY INSTRUMENTS USED				
S.No	Name of the Agency	Instruments used	Persons involved	Period of Survey
1	M/s Laxman Enterprises, Hyderabad	1. DGPS make: Trimble (R4) & South (S8624B117124812GM), (S8624117103457GM), (S8624B117124835GM) 2. Total Station: Leica (TS 06 ultra 1"rl) & Topcon (DS-101ACJ M1117)	Mr. Vikram, Surveyor Mr. P. Mahender, AEE, TDWSP, Kallur	From April 2015 to November 2015

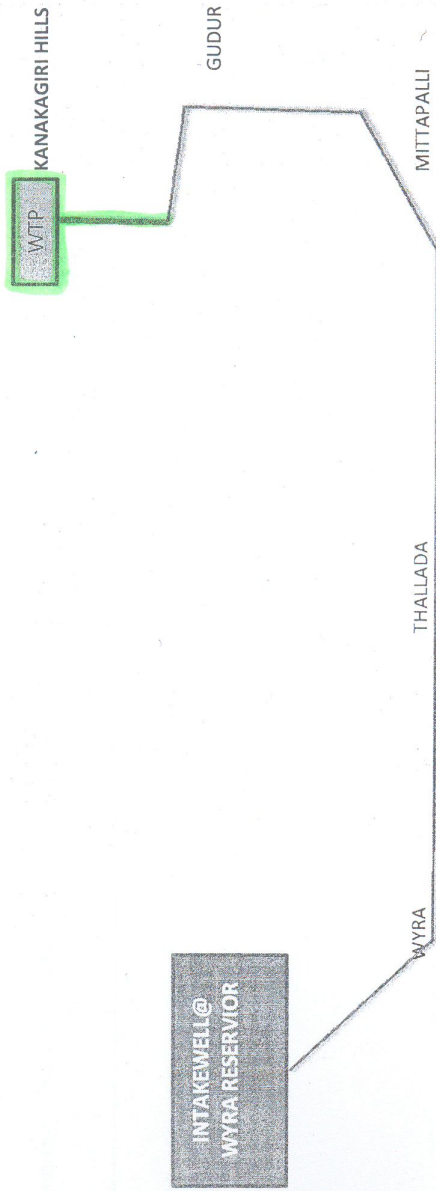
Superintending Engineer
TDWSP Circle, Khammam

"Counter Signed"



Chief Engineer
TDWSP, Hyderabad

FLOW DIAGRAM
TELANGANA DRINKING WATER SUPPLY PROJECT
SEGMENT-26 / 1, KHAMMAM DISTRICT.



LEGEND	
ITEM	PROPOSED
PIPE LINES	
FOREST LINE	
STRUCTURE IN FOREST	

"Counter Signed"

 Chief Engineer
 TDWSP, Hyderabad

Superintending Engineer
 TDWSP Circle, Khammam

DETAILS OF FOREST AREA INVOLVED

SINO	Division	Range	Section	Beat	Compt . No	Stretches	Details	Pipe Dia in 'mm'	Length in 'm'	Width in 'm'	AREA IN SQ M	Pipeline Area in 'ha"	Structure s Area in 'ha"	Total Area in 'Ha'
1	Khammam	Thallada	Kallur	Guduru	104	Pipeline Water Treatment Plant area at Kannegiri Hills	Pipeline Structure/WTP	1000,700,300	422.046	5.50	2321.253	0.232	3.791	0.232 3.791

**Total Area in
"Ha"**

0.232 3.791 4.023



Superintending Engineer
TDWSP Circle, Khammam

"Counter Signed"



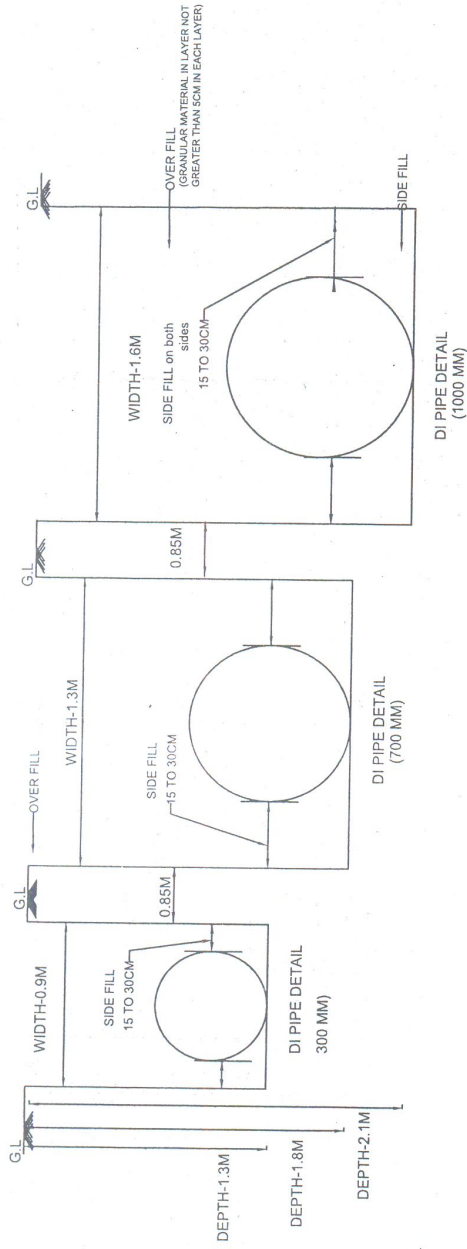
Chief Engineer
TDWSP, Hyderabad

Segment with proposals of Intake wells, Raw water P/M and Transformers
Under Telangana Drinking Water Grid(DWGW)

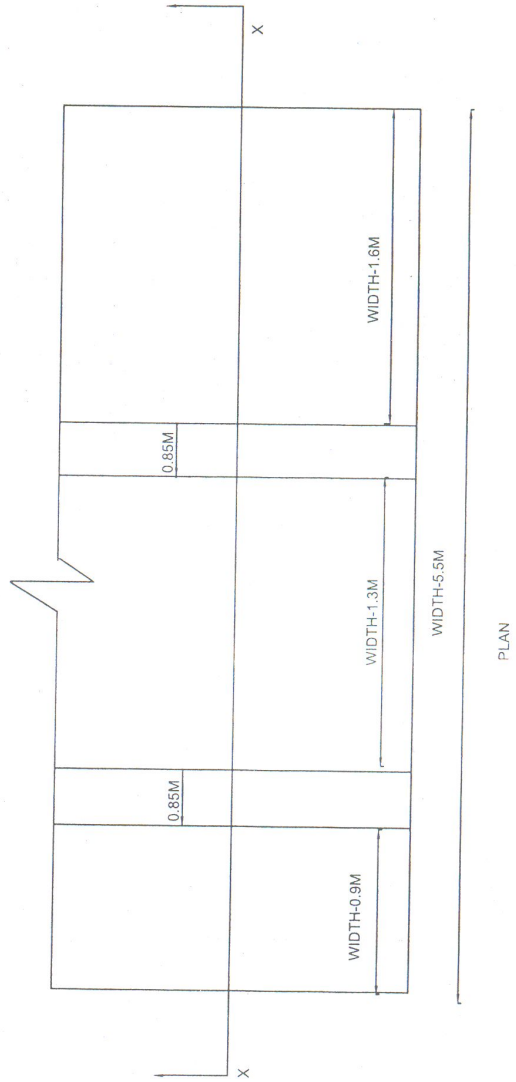
Sl. No	District	Name of segment of the grid Intake Well, WTP, Raw pumping main, HT power supply)	Name of the districts covered	No. of proposals made to be covered	Name of the Municipalities to be covered	Name of the Corporation	Total population (2011 census)										Total Est. Cost (In Lakhs)				
							Rural					Urban					WTP	RW P/M	Transformers, Station etc	Provision for Sumps, Watchman Quarters, houses, pump sets, compound walls, summer storage tanks, WW cess, VAT etc.) Others	Total
							Plain	SC	ST	Total	Plain	SC	ST	Total	16	17					
1	Warangal	Ramappa-Godavari (Mangapeta Segment)	Warangal	59	Nil	Nil	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
							36982	1415	9783	48180	0	0	0	0	210.00	355.00	416.35	26.50	292.15	1300.00	
2	Khammam	Palair	Khammam	365	Nil	Nil	252644	90242	73999	416885	0	0	0	0	1824.00	1490.00	900.00	550.00	11236.00	16000.00	
3	Khammam	Wyrva segment	Khammam	465	11	Madhira	337536	130267	62723	535066	20612	7493	1012	29117	1030.00	2117.00	6868.00	1180.00	4305.00	15500.00	
4	Khammam	Godavari Segment	Khammam	1826	22	Manuguru, Yelandi, Kothagudem, Patancheru, Statupalli	408296	123564	465191	997051	213960	50203	34541	298704	4055.00	1706.00	5910.00	390.00	3941.00	16002.00	
5	Khammam	Psuru	Khammam	148	2	Nil	22952	8864	24765	56881	0	0	0	0	210.00	406.00	110.00	24.00	50.00	800.00	
6	Karimnagar	Manakonda & Warangal	Karimnagar & Warangal	1084	25	Huzurabad, Huzurabad & Parkal	1035072	151474	75737	1262283	744015	108880	54440	907335	0.00	0.00	550.00	1000.00	3450.00	5000.00	
7	Karimnagar	Sircilla, Vemulavada & Choppadan	Karimnagar	470	14	Sircilla & Vemulavada	520908	125651	20913	667472	78497	34629	3766	116892	3300.00	3882.00	5010.00	2055.00	5453.00	19700.00	
8	Karimnagar	Manthani, Bhupalapalli	Karimnagar, Warangal	518	11	Kamapur, Bhupalapalli	340394	59569	25530	425493	36163	6328	2712	45203	400.00	2700.00	200.00	1100.00	1100.00	5500.00	
9	Medak	Medak	Medak	873	14	Jogipet, Medak	512227	106841	59997	679065	37267	4537	499	42303	4650.00	2740.00	2740.00	1108.88	1901.12	13000.00	
10	Medak	Sangareddy	Medak	438	11	Medak, Sangareddy, Zaberebad	491467	147836	35050	674353	143558	20981	2858	167397	4224.00	1700.00	5220.00	1302.90	2553.10	15000.00	
11	Adilabad	Adilabad segment	Adilabad	930	15	Adilabad, Nirmal	369066	95894	149198	614158	136902	35571	58343	227816	2507.00	5950.00	12400.00	1000.00	2943.00	24800.00	
12	Adilabad	Asifabad segment	Adilabad	1670	21	Kaigaznagar, Bellampally	393382	135501	256119	785002	5896	19253	36392	111541	1685.00	5002.00	1690.00	500.00	2623.00	11500.00	
13	Adilabad	Manoharal segment	Adilabad	331	7	Manoharal, Mandamari	201557	63485	20301	285343	175383	55241	248289	785.00	2275.00	660.00	250.00	780.00	4750.00		
14	Adilabad	Kaddam segment	Adilabad	293	3	Nil	105549	31889	30222	167660	0	0	0	0	536.00	1050.00	481.00	250.00	683.00	3000.00	
							Grand Total	21542.00	33507.00	15655.35	9837.28	41310.37	151852.00								

J.RAYMOND PETER
PRINCIPAL SECRETARY TO GOVERNMENT

TELANGANA DRINKING WATER SUPPLY PROJECT - WYRA SEGMENT-26-A
 MAP SHOWING PIPELINE CROSS-SECTION IN FOREST AREA OF KHAMMAM.



SECTION: X-X



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 Superintending Engineer
 TDS&P Circle, Khammam
 Counter Signed

Chief Engineer
 TDS&P, Hyderabad

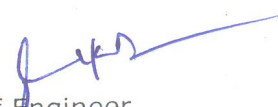
4. UNDERTAKING

The Telangana Panchayat Raj & Rural Water Supply and Sanitation Department hereby undertakes to pay the Net Present Value for acquisition of forest land for **"TELANGANA DRINKING WATER SUPPLY PROJECT for Laying of Pipe line and Construction of Other Structures for Providing safe Drinking Water in Khammam District – Segment 26/1 in Sathupalli Constituency"** as per the assessment made by the forest Department. In Case any alternation is made by the Forest Department, the amount will be paid by the RWSS Dept.



Superintending Engineer
TDWSP Circle,
Khammam.

"Counter Signed"

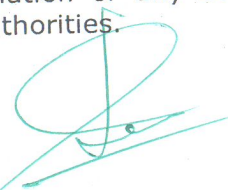


Chief Engineer
TDWSP, Hyderabad

Certificate

5. Undertaking to pay cost of exploitation of Tree Growth in diverted forest area and also bear the escalation Costs

We do hereby give an unconditional and irreversible undertaking to pay the cost of exploitation of the Tree Growth existing on the forest land proposed for diversion under the project **"TELANGANA DRINKING WATER SUPPLY PROJECT for Laying of Pipe line and Construction of Other Structures for Providing safe Drinking Water in Khammam District - Segment-26/1 in Sathupalli Constituency"** as and when demanded by the forest authorities and also undertake to pay the additional amount if any due to escalation or any other changes at later date as per the demand raised by the forest authorities.



Superintending Engineer
TDWSP Circle,
Khammam.

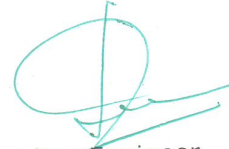
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Chief Engineer
TDWSP, Hyderabad

1. UNDERTAKING

The Telangana Panchayat Raj & Rural Water Supply and Sanitation Department undertakes to bear Cost of rising and maintenance of Compensatory Afforestation and/or Penal Compensatory Afforestation, as per the Scheme prepared by the State Government in connection with diversion of **4.023 Ha.** of Forest land in Khammam division for **"TELANGANA DRINKING WATER SUPPLY PROJECT for Laying of Pipe line and Construction of Other Structures for Providing safe Drinking Water in Khammam District Segment -26/1 in Sathupalli Constituency"**. We also undertake to pay additional amount if any due to escalation or any changes at later date as per the demand raised by forest authorities.



Superintending Engineer
TDWSP Circle,
Khammam (Dist).

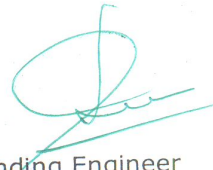
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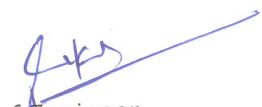
Chief Engineer
TDWSP, Hyderabad

2. CERTIFICATE

The Telangana Panchayat Raj & Rural Water Supply and Sanitation Department has requested the District Collectors of Telangana for Sparing of equivalent Non-Forest land towards CA in lieu of forest land proposed for diversion for **"TELANGANA DRINKING WATER SUPPLY PROJECT for Laying of Pipe line and Construction of Other Structures for Providing safe Drinking Water in Khammam District - Segment 26/1 in Sathupalli Constituency."** Vide Lr. No:DB/watergrid/Forest permission/2014-15 ,Date: 08-06-2015.


Superintending Engineer
TDWSP Circle,
Khammam.

"Counter Signed"


Chief Engineer
TDWSP,Hyderabad

GOVERNMENT OF TELANGANA
ABSTRACT

RWS&S- TDWG - Administrative Sanction for constructions of Intake wells, WTP's, Raw water pumping main, HT power supply for 14 segments as Phase - I (Part of overall requirement) for Rs.1518.52 Crores under Telangana Drinking Water Grid- Orders - Issued.

PANCHAYAT RAJ AND RURAL DEVELOPMENT (RWS) DEPARTMENT
G.O.Rt.No.82

Dated:07.02.2015.
Read the following:

1. From ENC(I), I&CAD Dept., Lr.No.ENC(I)/DCE-I/OT3/AEE20/
Water Grid/2014, dt.21.01.2015.
2. From the ENC, RWS&S, Hyd.Lr.No.AEE4/Grid(Admin)/
Proposals/2014-15, Dt.31.1.2015.
3. Instruction of the Hon'ble C.M in the review meeting held
on 4.1.2015.

ORDER:

In the reference 2nd cited, the Engineer-in-Chief, Rural Water Supply & Sanitation, Hyderabad has stated that, the drinking water grid will comprise of approximately 26 segments across 9 districts. The Hon'ble Chief Minister in the review meeting held on 04.01.2015, issued instructions to take up Intake wells immediately so that Intake structures can be completed to safer stage during ensuing summer period so as to avoid delay in completion of the project. Accordingly proposals for construction of Intake wells, WTP's, Raw Water pumping main and HT power supply were received from Superintending Engineers, RWS&S for 14 segments. The segment wise abstract for part of overall requirement is annexured to this order. The ENC, RWS&S, Hyderabad has requested the Govt., to accord administrative sanction for the 14 segments as Phase - I (Part of overall requirement) for Rs.1518.52 crores under Telangana Drinking Water Grid.

2. After careful examination of the proposals of the Engineer-in-Chief, Rural Water Supply & Sanitation, Hyderabad, Government hereby accord Administrative Sanction for constructions of 14 Segments (Intake wells, WTP's, Raw water pumping main, HT power supply) with an estimated cost of Rs.1518.52 Crores (Rupees Fifteen Crores, Eighteen Lakhs and Fifty Two Thousand Only), as annexure to this order as Phase - I Part of overall requirement under Telangana Drinking Water Grid.

3. The Engineer-in-Chief, Rural Water Supply & Sanitation, Hyderabad shall take necessary action in the matter.

4. This orders issues with the concurrence of Finance Department vide their U.O.No.103/PFS/2015, dt.2.2.2015.

(P.T.O)

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5. A copy of this order is available on the internet and can be accessed at the address <http://www.goir.telangana.gov.in>.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

J.RAYMOND PETER
PRINCIPAL SECRETARY TO GOVERNMENT

To

The Engineer-in-Chief (RWS&S) Department, Hyderabad

Copy to:

The Accountant General, Hyderabad.

The Director of Treasuries & Accounts, Hyderabad.

The District Treasury Officer, Hyderabad.

The PS to Addl. Secretary to Hon'ble Chief Minister.

The PS to Hon'ble Minister (PR&IT), Hyderabad.

The PS to Hon'ble Minister (Finance), Hyderabad

The PS to Prl. Finance Secy.

The PS to Chief Secretary.

The PS to Principal Secretary (PR&RD) Dept.,

The Finance(EBS.VIII) Dept.

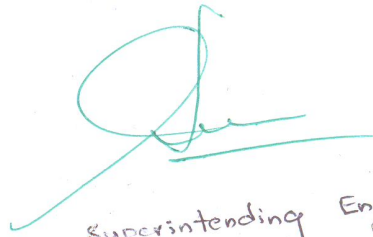
The Advisor to RWS.

SC/SF.

//FORWARDED::BY ORDER//

SECTION OFFICER

'Attended'



Superintending Engineer
TDWSP Circle
Khammam (Dist)