

### Justification for location of the project in forest area

The Telangana Drinking water project (TDWSP) is intended to provide safe drinking water to every habitation at a service level with 100 lpcd at household level from a sustainable surface water source. As a part of the project, it is proposed to provide safe drinking water to 3 Mandals of **Mulugu Constituency** from Ramappa Lake, Palampet(V) of Venkatapur Mandal as raw water source.

The work "TELANGANA DRINKING WATER SUPPLY PROJECT for Laying of Pipe line for Providing Safe Drinking Water in Mulugu Constituency of Warangal District- Ramappa Segment 20/1" All possible alternate routes for laying of pipelines have been examined to cover all the habitations in the **Mulugu Constituency** in Warangal District. As per the Hydraulic Designs and Topography of the Area the proposed locations are very much essential for laying of pumping main, gravity mains and there is no other possible alternative alignment.

**Cost of the Project:** Administrative sanctioned for Rs.135.00 Crores  
(Ramappa sub segment)

Superintending Engineer  
TDWSP Circle, Warangal

13/2/16  
[Signature]

"Counter Signed"

Chief Engineer  
TDWSP, Hyderabad

[Signature]

### Location wise Justification in the Forest Area (SET-1)

FOR THE WORK "TELANGANA DRINKING WATER SUPPLY PROJECT for Laying Pipe Line and construction of other structures for providing safe Drinking Water in Mulugu Constituency of Warangal Dist Ramappa SEGMENT-20/1"

Sl. No	Set No	Division	Reserve forest Name	Area proposed for diversion in Hectares	Justification	Remarks
1	1	Warangal North	Mulugu	0.045	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Head Works of Palampet to GLBR At 324 level and 245 level (350&350mm dia Pipe lines, two rows falls under <b>Mulugu Reserve Forest</b> for a length of 151.454 m and with a trench width of 3 m and the total area required is <b>0.045</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B Dept.
2	1	Warangal North	Mulugu	0.309	The proposed approach road to GLBRs at 245 level and 324 level comes under segment 20/1 of TDWSP(Telangana Drinking Water Supply Project). This approach road is for a length of 514.670 m and a width of 6mts and the total area required is <b>0.309</b> Hectares. There is no other alternate alignment to propose the approach road as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	
3	1	Warangal North	Mulugu	0.045	The proposed GLBR comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). The GLBR is proposed for Supply of drinking water to all habitations in Mulugu Constituency. The proposed GLBR falls in <b>Mulugu Reserve Forest</b> for which the total area required is <b>0.045</b> Hectares. There is no other alternate site to propose the GLBR in order to utilize the natural elevation to create sufficient head. Proposed site is only the feasible one.	
4	1	Warangal North	Mulugu	0.071	The proposed GLBR comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). The GLBR is proposed for Supply of drinking water to all habitations in Mulugu Constituency. The proposed GLBR falls in <b>Mulugu Reserve Forest</b> for which the total area required is <b>0.071</b> Hectares. There is no other alternate site to propose the GLBR in order to utilize the natural elevation to create sufficient head. Proposed site is only the feasible one.	



### Location wise Justification in the Forest Area (SET-2 & 3)

FOR THE WORK "TELANGANA DRINKING WATER SUPPLY PROJECT for Laying Pipe Line and construction of other structures for providing safe Drinking Water in Mulugu Constituency of WARANGAL DISTRICT RAMAPPA SEGMENT-20/1."

Sl. No	Set No	Division	Reserve forest Name	Area proposed for diversion in Hectares	Justification	Remarks
1	2	Warangal North	Mulugu	0.348	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Head Works of Narsapur-X (350mm dia Pipe line, which falls under <b>Mulugu Reserve Forest</b> for a length of 2317.009m and with a trench width of 1.5 m and the total area required is <b>0.348</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B Dept.
1	3	Warangal North	Bhupalapally	0.273	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Rajeshwarraopally -X to Rajeshwarraopally village(63mm dia Pipe line, which falls under <b>Bhupalpally Reserve Forest</b> for a length of 3033.622 m and with a trench width of 0.9 m and the total area required is <b>0.273</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B Dept.

### Location wise Justification in the Forest Area (SET-4)

FOR THE WORK "TELANGANA DRINKING WATER SUPPLY PROJECT for Laying Pipe Line and construction of other structures for providing safe Drinking Water in Mulugu Constituency of WARANGAL DISTRICT RAMAPPA SEGMENT-20/1."

Sl. No	Set No	Division	Reserve forest Name	Area proposed for diversion in Hectares	Justification	Remarks
1	4	Warangal North	Mulugu	0.145	The proposed pipeline comes under segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Mulugu X to Gattamma to Abbapur X(350mm dia Pipe line, which falls under <b>Mulugu Reserve Forest</b> for a length of 965.341 m and with a trench width of 1.5 m and the total area required is <b>0.145</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from NH Dept.
2	4	Warangal North	Bhupalpally North	0.370	The proposed pipeline comes under segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Inchencheruvupally X to Inchencheruvupally village (75mm dia Pipe line, which falls under <b>Bhupalpally North Reserve Forest</b> for a length of 4106.974 m and with a trench width of 0.9 m and the total area required is <b>0.370</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B Dept.



### Location wise Justification in the Forest Area (SET-5 & 6)

FOR THE WORK "TELANGANA DRINKING WATER SUPPLY PROJECT for Laying Pipe Line and construction of other structures for providing safe Drinking Water in Mulugu Constituency of WARANGAL DISTRICT RAMAPPA SEGMENT-20/1."

Sl. No	Set No	Division	Reserve forest Name	Area proposed for diversion in Hectares	Justification	Remarks
1	5	Warangal North	Bhupalpally North	0.400	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Mallampally Canal to Jakaram(250mm dia Pipe line, which falls under <b>Bhupalpally North Reserve Forest</b> for a length of 3637.926 m and with a trench width of 1.1 m and the total area required is <b>0.400</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from NH Dept.
2	5	Warangal North	Mulugu	0.192	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Jakaram X-Pandikunta X to Pandikunta village(200mm dia Pipe line, which falls under <b>Mulugu Reserve Forest</b> for a length of 1745.35 m and with a trench width of 1.1 m and the total area required is <b>0.192</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B Dept.
1	6	Warangal North	Mulugu	0.035	The proposed pipeline comes under segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Barigalonipally X to Barigalonipally village(75mm dia Pipe line, which falls under <b>Mulugu Reserve Forest</b> for a length of 393.843 m and with a trench width of 0.9 m and the total area required is <b>0.035</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.



### Location wise Justification in the Forest Area (SET-7 & 8)

FOR THE WORK "TELANGANA DRINKING WATER SUPPLY PROJECT for Laying Pipe Line and construction of other structures for providing safe Drinking Water in Mulugu Constituency of WARANGAL DISTRICT RAMAPPA SEGMENT-20/1."

Sl. No	Set No	Division	Reserve forest Name	Area proposed for diversion in Hectares	Justification	Remarks
1	7	Warangal North	Pasara	0.045	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from LaxmipuramX to Laxmipuram (Amruthanda) village(63mm dia Pipe line, which falls under <b>Pasara Reserve Forest</b> for a length of 498.686 m and with a trench width of 0.9 m and the total area required is <b>0.045</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.
2	8	Warangal North	Pasara	0.059	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Ippalagadda X to Ippalagadda village(63mm dia Pipe line, which falls under <b>Pasara Reserve Forest</b> for a length of 654.909m and with a trench width of 0.9 m and the total area required <b>0.059</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.
3	8	Warangal North	Pasara	0.050	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Govindaraopet to Rangapur village(75mm dia Pipe line, which falls under <b>Pasara Reserve Forest</b> for a length of 556.763 m and with a trench width of 0.9 m and the total area required <b>0.050</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.

4	8	Warangal North	Pasara	0.040	The proposed pipeline comes under segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Pasranagaram X to Pasranagaram village(75mm dia Pipe line, which falls under <b>Pasara Reserve Forest</b> for a length of 443.623m and with a trench width of 0.9 m and the total area required <b>0.040</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.
5	8	Warangal North	Pasara	0.410	The proposed pipeline comes under segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Pasranagaram X to Ippalagadda X to MuthapurX (90mm dia Pipe line, which falls under <b>Pasara Reserve Forest</b> for a length of 4557.139m and with a trench width of 0.9 m and the total area required <b>0.410</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.



### Location wise Justification in the Forest Area (SET-9)

FOR THE WORK "TELANGANA DRINKING WATER SUPPLY PROJECT for Laying Pipe Line and construction of other structures for providing safe Drinking Water in Mulugu Constituency of WARANGAL DISTRICT RAMAPPA SEGMENT-20/1."

Sl. No	Set No	Division	Reserve forest Name	Area proposed for diversion in Hectares	Justification	Remarks
1	9	Warangal North	Pasara	0.071	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Tappamancha X to Tappamancha village(63mm dia Pipe line, which falls under <b>Pasara Reserve Forest</b> for a length of 784.592 m and with a trench width of 0.9 m and the total area required <b>0.071</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.
2	9	Warangal North	Pasara	0.346	The proposed pipeline comes under Ramappa segment 20/1 of TDWSP (Telangana Drinking Water Supply Project). Part of pipeline is proposed from Tappamancha X to Projectnagar X (75mm dia Pipe line, which falls under <b>Pasara Reserve Forest</b> for a length of 3848.965 m and with a trench width of 0.9 m and the total area required <b>0.346</b> Hectares. There is no other alternate alignment to propose the pipeline as the ground levels are not permitting as per Hydraulic design. Proposed Reach is only the feasible alignment.	NOC will be obtained and submitted from R&B/PR Dept.