

### **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 5 Constituencies in Nalgonda District considering Krishna River as raw water source.

The work "**Construction of Clear Water ELBRs and Laying of Pipe Line for 5 Constituencies in Nalgonda District under Segment -3/1.**" All possible alternate routes for laying of pipelines have been examined and when it is inevitable and no other alternative route except through forest and ELBR Structures in the Forest Area is essential to serve the raw water and clear water through gravity mains to the 5 Constituencies in Nalgonda 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 construction of ELBRs and there are no other possible alternative alignment.

**Cost of the Project:** Administrative sanctioned for Rs.2106.00 Crores

  
Superintending Engineer  
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Chief Engineer,  
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## **Location wise Justification Report for the project proposed in forest area**

**Proposed Reach:** **Proposed Reach: Clear Water Trunk Main from Ganpurgutta to Turkapally at Vasallamari RF,**

**Merits/Demerits:** The pipeline is proposed from HMWSSB tapping point at Ganpurgutta to Thurkapally. water will be distributed to 2 Constituencies in Nalgonda District as it is exsiting structure. There are no other economical alternative alignments.

**Alternative alignment:** Alternative alignment is not possible because this is the only route.

**Justification:** The proposed reach is only the feasible alignment as per the Hydraulic designs and Topography of the Area. There are no other economical alternative alignments.

**Proposed Reach:** **Pipeline from 1) Veerareddypalli to Gandamalla in Veerareddipally RF, 2)Veerareddypall to Tirumalapuram in Veerareddipally RF,**

**Merits/Demerits:** The Pipeline proposed along the existing BT Road for better observation during course of O&M.

**Alternative alignment:** The alternative alignment is Veerareddypalli – IndraNagar-Gandamalla. For this alignment it is necessary to cross the stream by constructing a Bridge across it, which increases the cost of project significantly.

**Justification:** The proposed reach is only the feasible alignment as per the Hydraulic designs

and Topography of the Area. There are no other economical alternative alignments.

**Proposed Reach:** **Pipeline from: Venkatapuram to M  
Turkapally in Dattaipally RF,**

**Merits/Demerits:** Pipeline proposed along the existing National Highway Road.

**Alternative alignment:** There is no alternative alignment available for this stretch. The Topography of area along the proposed stretch is with high rise & Fall which is not suitable in for Gravity Mains.

**Justification:** The proposed reach is only the feasible alignment as per the Hydraulic designs and Topography of the Area. There are no other economical alternative alignments.

**Proposed Reach:** **Pipeline from: Chouttupal to  
Thallasingaram jntowards Lingareddy  
gudem in Choutuppal RF,**

**Merits/Demerits:** The existing OHBR at Talla Singaram Village Junction will be utilized in the Grid. For this it is necessary to lay a parallel line along the existing line.

**Alternative alignment:** The alternative alignment is to lay the Pipeline through the agricultural fields. There is a danger of damaging pipeline while performing regular activities by farmers.

**Justification:** The proposed reach is only the feasible alignment as per the Hydraulic designs and Topography of the Area. There are no other economical alternative alignments.



**Proposed Reach:** **OHBR & ELBR at Jangam gutta**

**Merits/Demerits:** The main object of the project to serve the water in Gravity mode in all possible routes. For that it is necessary to Maintain a high Pressure head.

**Alternative alignment:** The alternative alignment for this stretch is by pumping the water till the end of network. This results in increase of Project cost to a significant amount.

**Justification:** It is inevitable to construct the ELBR at the Jangoni Reserve forest for economic design of the project as per the Hydraulic Design.

**Proposed Reach:** **ELBR at Pallegattu Gutta**

**Merits/Demerits:** The main object of the project to serve the water in Gravity mode in all possible routes. For that it is necessary to Maintain a high Pressure head.

**Alternative alignment:** The alternative alignment for this stretch is by pumping the water till the end of network. This results in increase of Project cost to a significant amount.

**Justification:** It is inevitable to construct the ELBR at the Jangoni Reserve forest for economic design of the project as per the Hydraulic Design.

**Proposed Reach:** Pipeline from: Batlapally to  
Laxmanapuram in Marriguda RF,

**Merits/Demerits:** Pipeline proposed along the possible shortest path for economical design.

**Alternative alignment:** The alternative alignment is Batlapally – S Lingotam - Laxmanapuram.

**Justification:** The proposed reach is only the possible shortest feasible alignment as per the Hydraulic designs. There are no other economical alternative alignments.

**Proposed Reach:** Pipeline from: Iddampally to  
Erragutlapally in Mudigonda RF,

**Merits/Demerits:** Pipeline proposed along the existing WBM Road for better observation during the course of Operation & Maintenance.

**Alternative alignment:** Alternative alignment is to lay the pipeline in the agricultural land. There is a chance to damage the pipeline while performing regular agricultural activities like Plough, Harvesting Etc. However it is difficult to have a keen observation during O&M.

**Justification:** The proposed reach is only the feasible alignment as per the Hydraulic designs and Topography of the Area. There are no other economical alternative alignments.

**Proposed Reach:** Pipeline from: Cherkupally to  
Gundlapally in Gundlapally RF,

**Merits/Demerits:** Pipeline proposed along the existing BT Road.

**Alternative alignment:** The BT Road lies in the Reserve Forest. As there is No alternative alignment.

**Justification:** The proposed reach is only the feasible alignment as per the Hydraulic designs and Topography of the Area. There are no other economical alternative alignments.

**Proposed Reach:** **ELBR at Ragadapa**


**Merits/Demerits:** The main object of the project to serve the water in Gravity mode in all possible routes. For that it is necessary to Maintain a high Pressure head.

**Alternative alignment:** The alternative alignment for this stretch is by pumping the water till the end of network. This results in increase of Project cost to a significant amount.

**Justification:** It is inevitable to construct the GLBR at the Ragadapa for economic design of the project as per the Hydraulic Design.

  
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