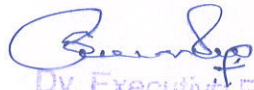


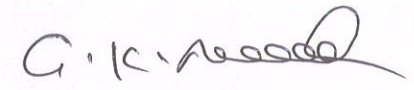
### **Justification for location of the project in forest area**

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 Nagarkurnool Constituency in Mahabubnagar District from Yellore reservoir as raw water source.


The work "**Laying of Pipe Line and Construction of Structures for Providing Safe Drinking Water in Nagarkurnool Constituency in Mahabubnagar District.**" 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 Nagarkurnool Constituency in Mahabubnagar 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.245.00 Crores

  
Dy. Executive Engineer  
RWS & S, TDWSP Sub-Division  
Nagarkurnool

  
Superintending Engineer  
TDWSP Circle, Mahabubnagar.

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

**Proposed Reach: Pipeline (Pumping Main) from foot of GudipallyGattu to ELBR at Gudipally RF.**

**Merits/Demerits** :The pipeline is proposed to pump the raw water, clear water to proposed ELBR then water will be distributed to Nagarkurnool Constituency in Mahabubnagar Dist. from this point only.The pumping main is route shortened by this identified area thereby pumping of raw water, clear water can saves power and thereby reduces the operational costs thereby leads to economy. The site proposed for ELBR in Forest area is only feasible as per Hydraulic Designs and Topography of area. There are no other economical alternative alignments.

**Alternative alignment:** Alternative alignment is not possible because this is the only shortest route to reduce the pumping main length. The pumping main just enters the forest area from the non forest area there by pipeline length in forest area is reduced.

**Merits/Demerits** : Proposed alignment path is economical and shortest one.

**Justification:** The proposed reach is economical as per theHydraulic designs and Topography of the Area the proposed location is very much essential.



**Proposed Reach:   Elevated Level Balancing Reservoir (ELBR)**

**Merits/Demerits:** The scheme is designed mainly on gravity principle as such the treated water will be pumped to a nearby higher elevation from there the water will be distributed by gravity to all habitations. It is technically and economically ideal to provide ELBRs over the hillock. This is the only location available in the vicinity with plain land available for construction of structures.

**Alternative alignment:** Possible alternatives examined. Alternate alignment is not possible because natural plain land on top of the hillock is available is present at this location only. It is technically and economically ideal to provide ELBR in this location such that the pumping mains and gravity mains are easily passes to and fro from this location. The pumping main is route shortened by this identified area thereby pumping of raw water can saves power and thereby reduces the operational costs thereby leads to economy.

**Merits/Demerits :** Construction of ELBRs away from hillock (forest) area leads to no gravityhead which in turn will increase number of re-pumping stations, power and operational costs.

**Justification:** As per the Hydraulic designs, existing natural conditions and Topography of the Area the proposed location/alignment is very much essential for construction of ELBRs. The water will flow by gravity to different Constituencies without any hindrances like re-pumping stations and power requirements at different locations.

**Proposed Reach: Pipeline (Gravity Main) from ELBR to outside forest area of Gudipally RF.**

**Merits/Demerits** : The pipeline is proposed to pump the clear water to proposed ELBR then water will be distributed to Nagarkurnool Constituency in Mahabubnagar Dist. from this point only. The pumping main is route shortened by this identified area thereby pumping of raw water, clear water can saves power and thereby reduces the operational costs thereby leads to economy. The site proposed for ELBR in Forest area is only feasible as per Hydraulic Designs and Topography of area. There are no other economical alternative alignments.

**Alternative alignment:** Alternative alignment is not possible because this is the only shortest route to reduce the pumping main length. The pumping main just enters the forest area from the non forest area there by pipeline length in forest area is reduced.

**Merits/Demerits** : Proposed alignment path is economical and shortest one.

**Justification:** The proposed reach is economical as per the Hydraulic designs and Topography of the Area the proposed location is very much essential.



**Proposed Reach: Pipeline (Pumping Main) from Buddaram Gate  
to Allipur Gate at Buddaram RF.**

**Merits/Demerits** : The pipeline is proposed to distribute the clear water from Bijinepally OHBR in Nagarkurnool Constituency in Mahabubnagar Dist. from this point only. The pumping main is route shortened by this identified area thereby pumping of raw water, clear water can save power and thereby reduces the operational costs thereby leads to economy. There are no other economical alternative alignments.

**Alternative alignment:** Alternative alignment is not possible because this is the only shortest route to reduce the pumping main length. The pumping main just enters the forest area from the non forest area there by pipeline length in forest area is reduced.

**Merits/Demerits** : Proposed alignment path is economical and shortest one.

**Justification:** The proposed reach is economical as per the Hydraulic designs and Topography of the Area the proposed location is very much essential.

**Proposed Reach: Elevated Level Balancing Reservoir (ELBR) on  
Kummera Hillock in Kummera RF**

**Merits/Demerits:** The scheme is designed mainly on gravity principle as such the treated water will be pumped to a nearby higher elevation from there the water will be distributed by gravity to all habitations in Tadur Mandal in Nagarkurnool Constituency. It is technically and economically ideal to provide ELBR over the hillock. This is the only location available in the vicinity with plain land available for construction of structures.

**Alternative alignment:** Possible alternatives examined. Alternate alignment is not possible because natural plain land on top of the hillock is available is present at this location only. It is technically and economically ideal to provide ELBR in this location such that the pumping mains and gravity mains are easily passes to and fro from this location. The pumping main is route shortened by this identified area thereby pumping of raw water can saves power and thereby reduces the operational costs thereby leads to economy.

**Merits/Demerits :** Construction of ELBR away from Kummera hillock (forest) area leads to no gravity head which in turn will increase number of re-pumping stations, power and operational costs.

**Justification:** As per the Hydraulic designs, existing natural conditions and Topography of the Area the proposed location/alignment is very much essential for construction of ELBR. The water will flow by gravity to different Constituencies without any hindrances like re-pumping stations and power requirements at different locations.




**Proposed Reach: Pipeline (Gravity Main) from ELBR to outside forest area of Kummera RF.**

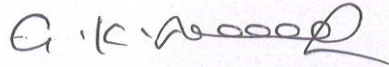
**Merits/Demerits** : The pipeline is proposed to pump the raw water, clear water to proposed ELBR then water will be distributed to Nagarkurnool Constituency in Mahabubnagar Dist. from this point only. The pumping main is route shortened by this identified area thereby pumping of raw water, clear water can save power and thereby reduces the operational costs thereby leads to economy. There are no other economical alternative alignments.

**Alternative alignment:** Alternative alignment is not possible because this is the only shortest route to reduce the pumping main length. The pumping main just enters the forest area from the non forest area there by pipeline length in forest area is reduced.


**Merits/Demerits** : Proposed alignment path is economical and shortest one.

**Justification** : The proposed reach is economical as per the Hydraulic designs and Topography of the Area the proposed location is very much essential.

  
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