

Justification for location of the project in forest area


Justification for location 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 100 lpcd at household level from a sustainable surface water source. As a part of the project, in Nalgonda district, it is proposed to provide safe drinking water to all habitations in of Suryapet, Kodad, Huzurnagar and Miryalguda, Nalgonda, Nakirekal & Thungathurty Constituencies from Palair, Udayasamudram & Tailpond reservoir as raw water source, the work **"Construction of Pipe Line and Other Structures for Providing safe Drinking Water in Nalgonda District - Segment 4"**

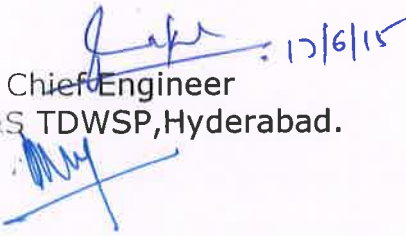
All possible alternate routes for laying of pipelines have been examined and when it is inevitable and no other alternative route except through forest to cover certain habitations and certain Structures in the Forest Area are essential to cover all the habitations in the Suryapet, Kodad, Huzurnagar and Miryalguda, Nalgonda, Nakirekal & Thungathurty Constituencies in Nalgonda District. As per the Hydraulic Designs and Topography of the Area the proposed locations are very much essential and there are no other possible alternative alignments.

Cost of the Project.

Rs. 1485.00 Crores.


Superintending Engineer, TDWSP circle, Hyderabad. 17/06/15

"Counter signed"


Chief Engineer
RWS&S TDWSP, Hyderabad. 17/6/15

Location wise Justification Report for the project proposed in forest area in Nalgonda District

Proposed Reach: Pipeline from Kistapuram R&R center to Raghunathapalem in Chinthalapalem Reserved Forest.

Merits/Demerits: The Kistapuram CPWS scheme was sanctioned to supply the safe Drinking water to 16 Resettlement & Rehabilitations centers of Pulichinthala Project submerged Habitations. The proposed area is Rock formations along the Krishna river. The villages are facing acute scarcity of water due to rock formations. There is Existing BT Road from Kistapuram R&R center to Raghunathapalem & Gundlapally R&R center, This path is nearest one. The forest is for a length of 1413m only out of 6000m.

Alternative alignment: Another alternate road is from Mellacheruvu and this road having nearly 3600m length of Vepalamadaram Reserved forest out of 12000m length and it needs intermediate pumping stations and Sumps. Alternative alignment means construction of structures and Long length of pipeline required and high expensive.

Merits/Demerits :Construction of Intermediate sump and Pumpingstation and increase of pipeline length is to increase of cost abnormally and almost 4 times expensive.

Justification: The proposed reach is economical as compare to alternate alignment. As per the Hydraulic designs, existing natural conditions and Topography of the Area the proposed location/alignment is very much essential.

Proposed Reach: Pipeline from Gundlapahad X road to Raghavapuram in Gundlapahad Reserved Forest.

Merits/Demerits: The Huzurnagar CPWS scheme was sanctioned to supply the safe Drinking water to Mattampally and Part of Nereducherla, Garidepally & Huzurnagar Mandals. The Proposed area is Rock formations along the Krishna river. The villages are facing acute scarcity of water due to rock formations. There is Existing BT Road from Gundlapahad X Road to Raghavapuram, The proposed path is only existing to Connect that village. Along the Road both sides are deforestation is done and cultivating paddy. The forest is for a length of 1587m only out of 3000m.

Alternative alignment: There is no other alternate road to connect Gundlapahad and Raghavapuram.

Justification: The proposed reach is only one. As per the Hydraulic designs, existing natural conditions and Topography of the Area the proposed location/alignment is very much essential.

Proposed Reach: Pipeline from 1) Janpahad Darga to Ravipahad in Ravipahad RF, 2) Janpahad Darga to Sunyapahad in Pasupulabodu RF 3) Janpahad Darga to Mahankaligudem in Saidulnam Reserved Forest.

Merits/Demerits: The Huzurnagar CPWS scheme was sanctioned to supply the safe Drinking water to Mattampally and Part of Nereducherla, Garidepally & Huzurnagar Mandals. The Proposed area is Rock formations along the Krishna river. The villages are facing acute scarcity of water due to rock formations. There is Existing BT Road from Janpahad Darga to Ravipahad, Sunyapahad and Mahankaligudem in 3 directions. The proposed path is only existing to Connect those villages. The

forest is for a length of 3187m out of 4000m towards Ravipahad, 3128m out of 4300m towards Mahankaligudem and 1632m out of 3900m towards Sunyapahad.

Alternative alignment: There is no other alternate road to connect from Janpahad darga to Ravipahad, Sunyapahad and Mahankaligudem.

Justification: The proposed reach is only one. As per the Hydraulic designs, existing natural conditions and Topography of the Area the proposed location/alignment is very much essential.

Proposed Reach: **Pipeline from 1) WTP at Immampeta to Urlugonda Hillock in Inderagonda RF for inlet & outlet pipes and , 2) ELBR @ Urlugonda Hillock in Inderagonda RF.**

Merits/Demerits: The scheme is designed mainly on gravity principle as such the treated will be pumped to a nearby higher elevation from there the water will be distributed by gravity to all habitations. In this case, the WTP is very nearer to the Urlugonda Hillock in Inderagonda RF. It is technically and economically ideal to provide WTP at the foot hill and to pump treated water to GLBR over the hillock. The higher elevation is available at this proposed location comprising series of hillocks at different elevations. This is the only location available in the vicinity with high elevation.

Alternative alignment: Possible alternatives examined. Alternate alignment is not possible because natural high elevated hillocks in the segment are present at this location only. Further proposed WTP location is also very nearer to the Proposed GLBR on Hillock. It is technically and economically ideal to provide GLBR in this location.

Merits/Demerits : For Construction of WTP an extent of 15 Acres govt/Assigned land is Handed over by the revenue officials. The high elevation is around 260m is required to delivery the water through by gravity to Suryapeta and Kodad constituencies. Construction of GLBR, at proposed location on the uphill is however mandatory because of the natural elevation exists here only.

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 GLBR and Laying pipeline for inlet and outlet. It is technically and economically ideal to provide GLBR over the hillock. The higher elevation is available at this proposed location with series of hillocks at different elevations. This is the only location available in the vicinity with high elevations for construction of Water balancing reservoirs and adjacent to the WTP. The water will flow by gravity to village OHSRs from these GLBR without any hindrances like re-pumping stations and power requirements at different locations.

Proposed Reach: **1.Pipeline from Dilavarpoor to OHBR Gandhinagar village (near kallepally)2.OHBr at Gandhinagar in Dilavarpuram Resereved Forest.**

Merits/Demerits: The CPWS scheme was sanctioned to supply the safe Drinking water to Damarcherla mandal villages consisting of Thandas and lime stone deposit villages. The Proposed area is Rock formations along the Krishna patte area.. The villages are facing acute scarcity of water due to rock formations. There is Existing Road from Dilavarpoor to Gandhinagar in forest reach. The proposed path is only nearer connectivity existing.Other wise we have to travel all

around 20 Km. The forest is for a length of 4290m out of 6200m. And proposed to construct OHBR 30X30Sqm area

Alternative alignment: There is alternate road which is to travel all around 20 Km instead of excising road in forest

Justification: The proposed reach is nearer one and passes through existing path. As per the Hydraulic designs, existing natural conditions and Topography of the Area the proposed location/alignment is very much essential.

Proposed Reach: **Pipeline from 1) Head works Avanthipuram Gudur village in Alagadapa Reserved Forest.**

Merits/Demerits: The CPWS scheme was sanctioned to supply drinking water to Miryalguda rural vemulapally and Miryalguda Municipality. The Proposed area is rocky terrain and heavily populated municipality and rural habitations of mostly ST's sc's. The villages are facing acute scarcity of water due to rock formations.. The forest is for a length of 3838.97 out of 6200m towards Gudur and Badalapuram villages.

Alternative alignment: There is other alternate road which is all around to connect.

Justification: The proposed reach is better as per the Hydraulic designs, existing natural conditions and Topography of the Area the proposed location/alignment is very much essential.

Proposed Reach: **Pipeline from 1) WTP at Avanthipuram to Kalavapally hillock incl inlet & outlet pipes and , 2) ELBR @ Kalvapally Hillock3.ELBR to Avanthipuram in Kalvapally reserved forest.**

Merits/Demerits: The scheme is designed mainly on gravity principle as such the treated will be pumped to a nearby higher elevation from there the water will be distributed by

gravity to all habitations. In this case, the WTP is very nearer to the Kalvapally Hillock in Kalvapally RF. It is technically and economically ideal to provide WTP nearer to the foot hill and to pump treated water to GLBR over the hillock. The higher elevation is available at this proposed location comprising series of hillocks at different elevations. This is the only location available in the vicinity with high elevation. And pipe line is 2050m out of 4.80KM in which pipe lines are to laid parallel one for filling ELBR and another for outlet.

Alternative alignment: Possible alternatives examined. Alternate alignment is not possible because natural high elevated hillocks in the segment are present at this location only. Further proposed WTP location is also very nearer to the Proposed GLBR on Hillock. It is technically and economically ideal to provide GLBR in this location.


Merits/Demerits : For Construction of WTP an extent of 25 Acres govt/land is Handed over by the revenue officials. The high elevation is around 200m is required to delivery the water through by gravity to Miryalguda and Huzurnagar constituencies. Construction of GLBR, at proposed location on the uphill is however mandatory because of the natural elevation exists here only.

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 GLBR and Laying pipeline for inlet and outlet. It is technically and economically ideal to provide GLBR over the hillock. The higher elevation is available at this proposed location with series of hillocks at different elevations. This is the only location available in the vicinity with high elevations for construction of Water balancing reservoirs and adjacent to the WTP. The water will flow by gravity to village OHSRs from these GLBR

without any hindrances like re-pumping stations
and power requirements at different locations.


Superintending Engineer 12/06/15
RWS&S TDWSP, Rangareddy

"Counter Signed"


Chief Engineer 17/6/15
RWS&S TDWSP, Hyderabad
