

APPLICATION FOR FOREST APPROVAL
JUSTIFICATION FOR LAYING THE PIPE IN FOREST LAND AND NOT IN THE
ALTERNATIVE ROUTES

NAME OF THE PROJECT: To Fill 60 Tanks of Harappanahalli Taluk from Tungabhadra River

CLIENT: KARNATAKA NEERAVARI NIGAM LIMITED (KNNL)

LOCATION: Harappanahalli Taluk, Davanagere District

GOVERNMENT APPROVAL: GO.47 M.M.B. Bengaluru dated 11.07.2017

PURPOSE OF THE PROJECT: “To fill 60 tanks of Harappanahalli Taluk from Tungabhadra River” in Harappanahalli Taluk, Davanagere District, Karnataka”.


JUSTIFICATION FOR PIPE LAYING IN THE FOREST LAND: For the project “To fill 60 tanks of Harappanahalli Taluk from Tungabhadra River”, the pipeline survey was conducted for the proposed route marked in green and the alternative routes marked in yellow and blue respectively.

For the Alternate Route – 1 (avoiding the forest area) marked in yellow, the soil comprised of high undulations thereby making it difficult to lay pipes. Additionally, the route is surrounded by hills, the soil terrain is rocky and resulting in increase of the lift content of the project. This will adversely affect the hydraulics of the project by increasing the pumping capacity and incurring additional frictional losses which is detrimental to pipes. As a result, sufficient pressure will not be developed in the pipes and the water lifted from the river will not reach the intended target i.e. the tanks to be filled.

For the Alternate Route – 2 (avoiding the forest area) marked in yellow, the distance traversed is much higher resulting in significant frictional losses and pressure drop along its length. Additionally, the route also passes through residence area along its way making it difficult to lay pipes for the same. As a result, this route is not suitable for laying the pipes because it does not satisfy the hydraulic requirement of the project and it passes through residence areas.

The proposed pipeline route (in the forest area) marked in green, was the most economical route wherein the hydraulic content of the project was satisfied. The soil profile does not have undulations, thereby making it easy to lay pipes as compared to the alternative routes. Owing to these reasons, the proposed route was selected for laying pipes.


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