

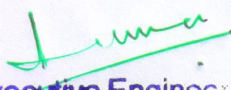


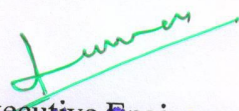
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No:EE/RDW&SD/MDY/MAHADEVAPURA/MVS/2021-22/ Dt:

JUSTIFICATION REPORT

- The objective of the Project is to provide Potable Drinking Water on sustainable basis to the Mahadevapura, Chikkankanahalli, K.Shettahalli and other 16 villages of Srirangapatna Taluk, Mandya District in Karnataka.
- The Shrirangapattana Taluk as of 2011 year Census having Population of about 122923 spread over 21 Gram Panchayats (GPs) comprising 117 Habitations. Out of these habitations 19 Habitations (5 GPs) suffers from insufficient supply of water due to dwindled of Bore Well source.
- The current endeavor is to provide Drinking Water Supply to these 5 Gp's comprising of 19 habitations.
- The project Hydraulic Design is based on taluk overall Ground profile and Topographical survey.
- The source for the project is Kaveri River (GL:664.24)(MSL) from there Raw Water is pumped for treatment near Vadiyandahalli village from there Pure Water is distributed Zone-wise to the proposed 19 habitations of the Shrirangapattana Taluk.
- The total Area is divided into 3 Zones to cover 19 Habitations of the taluk.
- Based on the Topographical Survey, Pure Water is to be pumped to the Elevated location, so as to convey the Water by gravity to the longer Distance.
- Now, proposed MBT(Outlet) is 825.00(MSL) and ZBT(Outlet) is 752.25m(MSL) are elevated locations which will cover around 19 habitations. So the proposed locations are very crucial for the project.
- And also the design and pipe line networks complete is vetted by the well known Hydraulic experts and approved by the Competent Authority.
- If the proposed location is avoided the project Pure Water pumping head will increase so that energy cost will get increase and also it increases the maintenance cost in Pipeline apparatus.

The proposed location is selected based on the Technicality and Economical Feasibility for the project, and there is no other alternative locations to meet the above requirements, hence, we are justifying the proposed location for allotment.


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JUSTIFICATION FOR LOCATION OF WTP LAND

The current Project of Water Supply Scheme to Mahadevapura, Chikkankanahalli, K.Shettahalli and other 16 villages of Shrirangapattana Taluk, Mandya District with Kaveri River as the source mainly has 3 components WTP, Headworks, Raising Main and Delivery line.

Headwork site has been located at Mahadevapura village, after considering various factors such as River Discharge, Section of the river, Soil Investigation, Elevation etc., Based on the Surveys conducted current site has been found to be most Efficient and no other locations fulfill above Criteria to be able to serve the requirements of the Headwork location.

Rising Main & Delivery line are been designed based on the best possible alignment and there is not any case of alternate location.

Water Treatment plant (WTP)(Non-Forest) of the main component of the project including Sub components like Aerator, Flash Mixer, Clariflocculator, Rapid Sand filter, Under drain system, and Pure Water Sump. These components like MBT & ZBT are of GLSR type structure are most efficient under Flat land (Forest land) and connecting road for laying of pipeline (Forest land) also required to be located at the elevation so as to supply Water at sufficient head. The present location at Vadiyandahalli Village is most suited one and there isn't any alternate location which can fulfill all the above criteria for the efficient working of WTP.

Hence, Respective locations of Headworks, Raising main and WTP are most suitable as per the requirements of the current project.

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