



Office of the Executive Engineer
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JUSTIFICATION REPORT

- The objective of the project is to provide potable drinking water supply on sustainable basis to the 129 habitations in Nagamangala taluka of Mandya District in Karnataka.
- The Nagamangala taluka as of 2011 year census having population of about 190770 spread over 27 Gram Panchayats (GPs) comprising 513 habitations. Out of these habitations ground water in 129 habitations (14 GPs) suffers from chemical contamination and insufficient supply of water due to dwindled of bore well source.
- The current endeavor is to provide drinking water supply to these 14 GP's comprising of 129 habitations.
- The project hydraulic design is based on the taluka overall ground profile and topographical survey.
- The source for the project is Markonahalli Reservoir (GL: 732.000) (MSL) from there raw water is pumped for treatment near Mallasandra village (GL: 756.000) from there pure water is distributed cluster-wise to the proposed 129 habitations of the Nagamangala taluka.
- The total area is divided into 7 clusters to cover all 129 habitations of the taluka.
- Based on the topographical survey, pure water is to be pumped to the more elevated location, so as to convey the water by gravity to the longer distance.
- Now, proposed Master Balancing Reservoir (MBR) GL is 830.000m (MSL) is elevated location which will cover around 101 Habitations out of 129. So the proposed location is 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 pipe line apparatus.

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

Date: 04.08.2018

Place: Nagamangala, Mandya Div.


Executive Engineer,

**Rural Drinking Water and Sanitation Department
Mandya**