


JUSTIFICATION REPORT

- The objective of the project is to provide potable drinking water supply on sustainable basis as per below table

Sl. No	Project Beneficiary	District	Nos of Habs	Projected Population		Projected Raw Water Demand with 20% losses (MLD)	
				2035	2050	2035	2050
1	Chilakanahatti and 14 villages in Hospet taluk of Bellary district	Bellary	15	39,216	46,570	4.00	4.75
2	Ujjini & 216 villages in Kudlagi taluk of Bellary district						
	Ujjini WSS -Phase-I		71	1,07,841	1,32,347	11.00	13.50
	Ujjini WSS -Phase-II		144	2,30,400	2,84,300	23.50	29.00
3	Molakalmuru Taluk	Chitradurga	132	1,70,050	2,01,626	17.35	20.57
4	Challakere Taluk		360	4,56,113	5,33,711	46.52	54.44
5	Thuruvanur & 58 number of habitations in Thuruvanur Hobli of Chitradurga Taluk		59	90,976	1,07,474	9.28	10.96
6	Pavagada Taluk	Tumkuru	357	2,95,091	3,33,137	30.10	33.98
	Total Rural Hab's		1138	13,89,687	16,39,165	141.75	167.20
1	Molakalmuru Town	Chitradurga	1	30,334	41,622	4.91	6.74
2	Pavagada Town	Tumkuru	1	39,273	46,387	6.36	7.51
	Total Town		2	69,607	88,009	11.27	14.25
	TOTAL		1140	14,59,294	17,27,174	153.02	181.45

- The current endeavor aims at ensuring potable water supply at the rate of 85 LPCD for 1138 habitations and at the rate of 135 LPCD to 2 towns.
- The project hydraulic design is based on the taluka overall ground profile and topographical survey.
- The source for the project is back waters of Tungabhadra Reservoir at Hospet. The raw water will be pumped form source point to treatment plant


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near Shivpura village at Kudalgi taluka and then from there pure water will be further pumped to Master Balancing Reservoir (MBR) and from there pure water will be distributed into cluster-wise to the proposed 1140 habitations / towns.

- The total area is divided into no's clusters to cover all 1140 habitations of the all talukas.
- Based on the topographical survey, raw water & pure water is to be pumped to the more elevated location, so as to convey the water by gravity to longer distance.
- Now, proposed jack well cum pump house is at back waters of Tungabhadra reservoir at hospet. Which is the nearest place to pump the water to the preferred habitations and also suitable for the drawal of the quantum of water required for the project from the reservoir. So, the proposed location is very crucial for implementation project.
- The hydraulic design and pipe line networks is vetted by the well-known hydraulic experts and approved by the competent authority.
- If the proposed location and alignments are avoided the project raw water & pure water pumping head will increase so that energy cost will get increase and also it will increases the maintenance cost in pipe line apparatus.

The proposed locations and alignments are 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.

Date:

Place: Bangalore


Superintending Engineer,

**Rural Drinking Water and Sanitation Department
Bangalore Circle, Bangalore**