

IRRIGATION DEPARTMENT HEMAVATHY RESERVOIR PROJECT



BAGUR NAVILE TUNNEL

The Hemavathy project contemplates amongst others the diversion of Hemavathy waters to feed 1.27 lakh hectares of dry lands in Tumkur district and 0.28 lakh hectares of dry lands in Nagamangala taluk of Mandya district.

For this purpose a branch canal takes off at ch.71.62 km of Hemavathy Left Bank Canal. This canal traverses a distance of 21.17 km

and in the process cuts across a ridge and enters Shimsha valley through a tunnel of 9.76 km length known as Bagur-Navile tunnel.

The tunnel passes through in all about 4000 m of geologically disturbed zones and permanent supports have been provided at such places. This tunnel is the longest irrigation tunnel in the country.

SALIENT FEATURES

1. length	9762.50m
2. Shape	'D' shape
3. Diameter	5.4 m
4. Depth of over burden over crown	15m to 76m
5. Full supply depth	4.572 m
6. Free board	0.828m
7. Bed fall	1 in 660
8. Area of flow	24.103 m ²
9. Velocity	2.975m/ sec
10. Discharge	70.791 cumecs
11. Thickness of lining in hard strata	0.36m
12. Thickness of lining in Soft Strata	0.72 m
13. Number of shafts	4 vertical shafts
14. Estimated cost	55.00 crores
14. Date of starting of work	Nov/1979
15. Date of completion	Mar/1990