

**Role of River Valley Projects in Climate Change
Case study of the Sulwade Barrage on Tapi River
Dhule (M.S.)**

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River Valley Projects fall under minor, Medium & Major infrastructure project category. Government departments or government sector corporations generally undertake such projects. Such projects are known to affect the public life on local and regional level. Implementation of these projects impact on Catchment, Submergence & Command areas of the project in Major project impact can happen in several districts also

Sulwade is the Barrage on Tapi river under which submergence is created from Jan 2008. During rainy season heavy floods occur and pass through Tapi River. These floods recede quickly with in short duration. After these floods, water is harvested in September or October in this barrage. Every dam causes temporary and permanent submergence of land in the upstream and displacement of resident persons and their property, along-with submergence of plant life and disruption to animal life. It is necessary to evaluate and monitor the post project impacts. Along in relation with rainfall, ground water, climate data

In the Present paper an attempts has been made to enumerate almost all the parameters related to Climate change. The paper compares the impacts noticed by us during study of this project which is in Scarcity agro climatic zone of Maharashtra.

This comparison of impacts is made under three major heads namely:

- a) Physical parameters
- b) Biodiversity
- c) Socio economic conditions

Basic idea in implementation of River Valley Projects is for agriculture. While these benefits are indeed desirable, will result in some positive and some negative impacts on the environmental, socioeconomic and health parameters including those related to minimum environmental flows for ecologically sound management of the downstream ecology. It further suggests the major factors that merit consideration in the preparation of the environmental management plan for future projects

The paper aims at clarifying positive & Negative impacts of regional climate change in River Valley Project.