

## **Evaluation of the Costs and Benefits of Mumbai Sewage Disposal Project, India**

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**Abstract :** Municipal Corporation of Greater Mumbai intends to undertake Mumbai Sewage Disposal (MSDP) for improvement of environment in and around Mumbai city. Sewage generated from the city currently gets partly into the inadequate collection system for treatment and the rest into nearby marine water body through drains. This paper addresses the cost benefit analysis of MSDP works for better compliance of sewage treatment and disposal. Cost benefit analysis indicates that the investment in sewage treatment is economically beneficial and will provide immense social, environmental, health and economic benefits. Monetary values of positive benefits such as avoided health costs, enhanced fish catches and improved tourism have been quantified. The total capital cost of the project is estimated to be about INR 51,510 million and operation and maintenance cost is about INR 2240.6 million per year. The cost benefit analysis indicates that a benefit of about 25,882 million per year can be achieved due to the implementation of this project. Other than these benefits, better marine ecosystem quality; higher property cost; improved recreational opportunities were not included because of lack of information.

**Keywords :** waste water treatment, cost-benefit analysis, health, tourism, fisheries

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