

Visveswariah Technological University, Belgaum



A

Project Report
On

*“Performance and Characteristics Study of
Sewage Treatment Plant at Gulbarga”*

Submitted to Visveshwaraiah Technological University, Belgaum
for the partial fulfillment of the award for Degree of

**BACHELOR OF ENGINEERING
IN
CIVIL ENGINEERING**

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2009-2010**

SYNOPSIS

Sewage treatment plant is a typical scenario by which the sewage produced by the community is biological treated and it is discharged in to the river or used for sewage farming.

The study was conducted for performance of STP as per design conditions. The STP was not working due to negligence, lack of fund and untreated sewage being diverted illegally for unsafe sewage farming.

Due to the political will and awareness the STP was repaired in record time. The study was done on the STP in full working condition.

It was found from the study a removal efficiency in treatment of BOD, COD suspended solid, dissolved solid and total solid are 77%, 74%, 86.5%, 92.5% & 92% respectively

The compliance of effluent quality with Indian discharge standard are follows

Parameters	IS standard		Results obtained
	Surface water	Irrigation purpose	
BOD	30	100	76.66 mg/l
COD	250	-	155.33 mg/l
Suspended solid	100	200	39 mg/l
Dissolved solid	2100	2100	75 mg/l
Chloride	1000	600	134 mg/l

The effluent quantity is suitable for sewage farming as per Indian standards. The population forecast study showed, that the size of present STP is not sufficient to cater even to present population, additional treatment facilities are to be provided for 30 years design period.

This project work is sponsored by “KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (KSCST)” Under student present proposed scheme.