

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", MACHHE, BELAGAVI - 590018, KARNATAKA



2021-2022

Project Report on

"STUDY OF PHYSIO CHEMICAL CHARACTERISTICS OF SHIMSHA RIVER"

Submitted in partial fulfillment of the requirement for the award of degree

BACHELOR OF ENGINEERING

IN

CIVIL ENGINEERING

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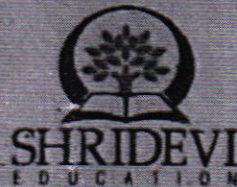
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CERTIFICATE

Certified that a project report on entitled "STUDY OF PHYSIO CHEMICAL CHARACTERSTICS OF SHIMSHA RIVER" has been successfully carried out by HANAMESH (ISV18CV015), PRIYANKA M D (ISV18CV028), DARSHAN R (ISV19CV405), GAYITHRI S N (ISV19CV408) students of Shridevi Institute of Engineering and Technology, Tumkuru -572106, in partial fulfillment of project for the award of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Jnana Sangama, Belagavi - 590018 during the academic year 2021-2022. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated in the report deposited in the Department library. The report has been approved as it satisfies the academic requirement in respect of project on current topic prescribed for B.E Degree.

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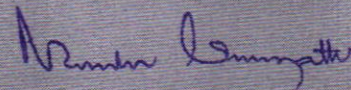
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ABSTRACT

Physical and Chemical characteristics of river affect the design and operation of treatment plants. To date, little is known about the characteristics of the river Shimsha. Therefore, the objective of the study was to determine the physical and chemical characteristics of the river Shimsha at various points. Generally, we have selected four points of strategic importance. One point before the disposal site, next point at disposal and other two after some distance from disposal site. Results of the study indicate that the physical and chemical characteristics of the river play a significant role in determining the suitability of river water. Mainly DO of river water indicates the pollution of river water. The DO trend across the length of the river helps us to assess the self-purification of river Shimsha. DO should be greater than 4mg/L for the survival of aquatic life. Our objective is to observe the DO trend across the length of the river (15 Kms) and suggesting the economical method of treatment. Green Bridge technology is one such economical method of treatment. This technology helps to increase the DO level of the water and acts as an artificial bio-filter in the river.



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