

“A STUDY ON DEFORESTATION IN CHIKMAGALUR DISTRICT”



A PROJECT REPORT

Submitted by

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MAHESH B

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NEHA C

4AL16CV057

In partial fulfillment of the requirements for the degree of

BACHELOR OF ENGINEERING

In

CIVIL ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI – 590018

Under the Guidance of

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DEPARTMENT OF CIVIL ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI - 574225, KARNATAKA

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

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CERTIFICATE

Certified that the project work entitled "A STUDY ON DEFORESTATION IN CHIKMAGALUR DISTRICT" is a bonafide work carried out by

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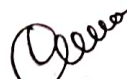
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Are bonafide students of Department of Civil Engineering of Alva's Institute of Engineering and Technology in partial fulfillment for the award of BACHELOR OF ENGINEERING in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2019-2020. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.


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ABSTRACT

Sustainable management of Forest ecosystem is necessary as it serves the important functions such as supplementing human dietary requirements, ecological significance in terms of biodiversity conservation, flood control, water purification and micro climate regulation etc. In India due to deforestation in response to the human demand has resulted in reduction of the global forest cover from 1990 to 2015. Although in the recent years India has seen an increment in the total forest cover, there is still certain regions in the country that have sought a decrease in the forest cover. The Western Ghats, which covers about 60 % of forest area of Karnataka, is recognized as one of the bio-diversity hotspots of the world and these forests are shrinking in recent years due to anthropogenic pressures, especially encroachment of lands for agriculture and it has led to forest fragmentation, loss of habitat and corridor for movement of wild animals, etc. Hence, an inventory of reserve forest in a given area is a pre-requisite for their conservation and management.

The present study focused on assessment of deforestation in Chikmagalur district of Karnataka for the year 2019 using RS and GIS and the study of shola forest. Later the impact of deforestation over the past decades from 1975, 1999, 2000 and 2010 is compared with the latest observed data of 2019. It is observed that the forest cover has considerably increased between 2010 and 2019 after seeing a major forest encroachment from 1975 to 2010. Sustainable forest management practices, alternatives for shifting cultivation, promotion of plantation outside the forest and the usage of certified forest products, etc. are some of the measures that are adopted to curb the rate of deforestation.