



A STUDY ON NATURAL DISASTER IMPACTS ON SOIL IN KATTERY WATERSHED NILGIRI DISTRICT

Kumar N

Research Scholar, Department of Civil Engineering,
Karpagam Academy of Higher Education, Coimbatore, Tamilnadu, India

Dr. N. Balasundaram

Professor, Department of Civil Engineering,
Karpagam Academy of Higher Education, Coimbatore, Tamilnadu, India

Dr. T. Meenambal

Professor, Department of Civil Engineering,
Government College of Engineering, Coimbatore, Tamilnadu, India

ABSTRACT

The aim of this study is to access the impacts of natural disaster on soil in watershed basis. Hence Kattery watershed of Nilgiris district-Tamil Nadu, India is taken up for this study. The methodology involves remote sensing and GIS technologies. Field study and Laboratory analysis. The present study was initiated in Kattery watershed by preparing various thematic maps from cadastral maps using GIS Technology relevant to the study. Natural disaster that occur in hilly areas are earthquakes, landslides and floods. During these disasters there is great loss for life, properties and natural resources.

This paper focuses on importance of natural resources such as soil, and the virtual disasters caused due to the soil loss.

Key words: Kattery watershed, natural diaster, landslides, impact and soil loss.

Cite this Article: Kumar.N, Dr. N. Balasundaram, Dr. T. Meenambal, A Study on Natural Disaster Impacts on Soil in Kattery Watershed Nilgiri District. *International Journal of Civil Engineering and Technology*, 9(1), 2018, pp. 407-415.

<http://www.iaeme.com/IJCET/issues.asp?JType=IJCET&VType=9&IType=1>

1. INTRODUCTION

Natural disasters such as earthquakes, tsunami's, cyclones, landslides, fire, volcanic eruptions are a great threat to mankind and properties. A disaster happens when a hazard impacts on vulnerable population and causes damage, casualties and disruptions. India has been traditionally vulnerable to natural disasters on account of its unique geo climatic conditions.