VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590018

PROJECT REPORT ON

"URBAN FLOOD MANAGEMENT AT KOTTARACHOWKI, MANGALORE USING GIS AND REMOTE SENSING"

Submitted in partial fulfilment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
CIVIL ENGINEERING

Submitted By

Name	USN
MALLIKARJUNA	4AL14CV046
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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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Certificate

This is to certify that following students

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Has submitted Final report on **"URBAN FLOOD MANAGEMENT AT KOTTARACHOWKI, MANGALORE USING GIS AND REMOTE SENSING"** for VIII Semester Bachelor of Engineering in Civil Engineering during the academic year 2018-19. The final report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

14/05/19

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15/6/19

15/6/19

ABSTRACT

Flood impact is one of the most significant disasters in the world. Causes of floods are due to natural factors such as heavy rainfall, high floods and high tides, etc., and human factors such as blocking of channels or aggravation of drainage channels, improper land use, deforestation in headwater regions, etc. Floods result in losses of life and damage properties. Population increase results in more urbanization, more impervious area and less infiltration and greater flood peak and runoff. Problems become more critical due to more severe and frequent flooding likely caused by climate change, socio-economic damage, population affected and public outcry. Flood loss prevention and mitigation includes structural flood control measures such as construction of levees and proper maintenance of the existing drainage system and non-structural measures such as flood forecasting and warning, flood hazard and risk management and public participation etc. This study uses the Remote Sensing and GIS technique to assess the flood inundated places by flood hazard map in the study area, effect of flood on people, infrastructure and vegetation by flood vulnerability map and flood zones which shows hazards and classifying them as low, medium and high hazards by flood zoning map in the study area. The results of the above particulars are used to give early warnings of the flood and suggestion to flood control and mitigation measures for the flood prone study area that is Kottarachowki, Mangalore (T), Dakshina Kannada (D), Karnataka state, India.