

INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH ISTAR - Constituent College of CVM University 1st Rank among All Colleges of Gujarat by KCG (GSIRF) - 2021 Recognized under Section 2(f) and 12(B) of the UGC Act. 1956



A Project Report on Land use Land cover and change detection urbal Sprawl for Shivamogga City Karnataka

Submitted by
Sachin Chittaranjan
(Roll no: 22G107, Enrollment no : 22201400301007)

Internal Guide

DR. KRUNAL B. SUTHAR
HOD, Geoinformatics
Department -ISTAR
The CVM University
V.V. Nagar-388120,
Gujarat, India

External Guide

MR. SAGAR SHAH
MANAGER,
GIS Services
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Limited
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Gujarat - India

Academic year 2023-2024





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Guided by:

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CERTIFICATE

This is to certify that the project work embodied in this report entitled " LAND USE AND LAND COVER AND CHANGE DETECTION URBAN **SPRAWL FOR** SHIVAMOGGA CITY was carried out by Mr. SACHIN (22201400301007) CHITTARANJAN Geoinformatics department, Institute of Science and Technology for Advanced Studies and Research University, Vallabh (ISTAR)-CVM Vidyanagar fulfilment of the requirement for the award of M.Sc. (Geoinformatics) for the Project Work (201400401). This project work has been carried out under my guidance and it is to my satisfaction.

Dr. Krunal B. Suthar Project Guide,

Head, P.G. Department of Geoinformatics

ISTAR-CVM University

Dr. M. M. Ray

ISTAR-CVM University

PRINCIPAL
INSTITUTE OF SCIENCE & TECHNOLOGY
FOR ADVANCED STUDIES & RESEARCH
(ISTAR)
VALLABH VIDYANAGAR-388120





Ref.: SGL/HR/2024-25 Date: 17th April, 2024

TO WHOME IT MAT CONCERN

This is to certify that Mr. Sachin Chittaranjan, has Successfully completed his traineeship in the field of Land use land cover and change detection urban sprawl for Shivamogga city Karnataka. from 03rd October, 2023 to 15th April, 2024. Under the guidance of Sagar Shah.

During the period of his internship program with us, he had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

Yours Sincer

Mr. Rajesh Jesani

Senior Executive Manager - Human Resources



Acknowledgement:

I would like to express gratitude to Dr. Krunal Suthar my advisor and guide, for his support and guidance heplful to complete my project.

I would Like to Thank to Mr. Sagar Shah for Giving me opportunity to

do an internship within the organization.

I would like to extend my appreciation to classmates who have been

actively involved in brainstorming ideas and conducting experiments.

Their collaborative efforts have been instrumental in the smooth

execution of this project.

I would like like to express my gratitude to Principle of ISTAR College

Dr. M.M. Mahendra Raj and Assistant professor Ms. Akgansha Verma

to Complete this project.

I would Like to Thanks to My Friend Ishan Seth for his support and

guidance throughout the Project.

Thaking You

Sachin Chittaranjan(22201400301007)

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