



INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

THE CHARUTAR VIDYA MANDAL UNIVERSITY

3rd Rank (5 Star) among All Colleges of Gujarat by KCG (GSIRF)



**A Project Report on
UTILIZING DGPS AND TOTAL STATION FOR
PRECISION MEASUREMENT IN ROAD
CONSTRUCTION**

Submitted by

CHETAN JETHABHAI VAJA

(Roll no: 23GI01, Enrollment No: 22301400301001)

Internal Guide

DR. KRUNAL B. SUTHAR

HOD, Geoinformatics

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External Guide

MR. MUKESH RAULJI

SURVEY MANAGER

RKC INFRABUILT

PVT.LTD.

Ahmedabad – 380015

Gujarat, India

Academic year

2024-2025



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

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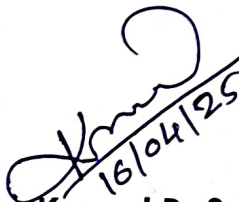
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CERTIFICATE

This is to certify that the project work embodied in this report entitled "UTILIZING DGPS AND TOTAL STATION FOR PRECISION MEASUREMENT IN ROAD CONSTRUCTION" was carried out by MR. CHETAN JETHABHAI VAJA (22301400301001) at the Geoinformatics department, Institute of Science and Technology for Advanced Studies and Research (ISTAR)- CVM University, Vallabh 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.


16/04/25
Dr. Krunal B. Suthar
Project Guide,
Head, P.G. Department of Geoinformatics
ISTAR-CVM University


16/04/25
Dr. M. M. Raj
Principal,
ISTAR-CVM University



08th April, 2025

TO WHOM SO EVER IT MAY CONCERN

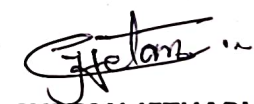
This is to certify that **Mr. CHETAN JETHABHAI VAJA** (Roll No. 23GI01), pursuing MSc. (Geoinformatics) in Institute of Science & Technology for Advanced Studies & Research College – CVM University, Anand (Gujarat), has successfully completed his internship with us for the period starting from 04th Dec, 2024 to 09th March, 2025.

We wish him all success in his future endeavors.

For RKC Infrabuilt Pvt. Ltd.



Karan Shah 08/04/25
Vice President – Human Resource



CHETAN JETHABHAI VAJA

ACKNOWLEDGEMENT

I extend my heartfelt gratitude to Mr. Mukesh Raolji, my esteemed External Guide, for his invaluable guidance, support, and expertise throughout the journey of researching and composing this report on Utilizing DGPS and Total Station for Precision Measurement in Road Construction. His insightful inputs and unwavering encouragement have been instrumental in shaping the depth and quality of this work.


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I express my sincere appreciation to Dr. M.M Raj, our esteemed Principal, for his continuous encouragement and support towards academic pursuits, fostering an environment conducive to scholarly growth and innovation.

Furthermore, I extend my gratitude to CVM University and ISTAR College for providing the necessary resources and conducive environment for academic exploration and research.

Lastly, I would like to extend my gratitude to all the researchers, scholar, and experts in the field of DGPS and total station. This report stands as a testament to the collective efforts, guidance, and support of all those mentioned above, without whom its completion would not have been possible

Thanking you


Mr. Chetan Jethabhai vaja
(22301400301001)