

TOPOGRAPHIC SURVEY
OF
PART OF KWARA STATE POLYTECHNIC MAIN CAMPUS
(FORMER INSTITUTE OF ENVIROMENTAL STUDIES)
ALONG OLD JEBBA ROAD, MORO LOCAL GOVERNMENT AREA,
KWARA STATE.

BY
ABUBAKAR KUDUS O.
Matric No. ND/23/SGI/FT/0051

BEING FINAL YEAR PROJECT SUBMITTED TO THE
DEPARTMENT OF SURVEYING AND GEOINFORMATICS
INSTITUTE OF ENVIRONMENTAL STUDIES
KWARA STATE POLYTECHNIC, ILORIN.

IN PARTIAL FUFILMENT OF THE REQUIRMENT FOR THE AWARD OF
NATIONAL DIPLOMA (ND) IN SURVEYING AND GEO-INFORMATICS.

JUNE,2025.

CERTIFICATION

This is to certify that **ABUBAKAR KUDUS O. Matric No. ND/23/SGI/FT/0051** has satisfactorily carried out his project under my instructions and direct supervision.

I hereby declare that he has conducted himself with diligence, honesty and sobriety on the project.

.....
ABUBAKAR KUDUS O.
Matric No. ND/23/SGI/FT/0051

.....
Date & Sign

CERTIFICATION

This is to certify that **ABUBAKAR KUDUS O. Matric No. ND/23/SGL/FT/0051** has satisfactorily carried out his project under my instructions and direct supervision. I hereby declare that he has conducted himself with diligence, honesty and sobriety on the project.

.....
Surv. Babatunde kabir
(Project Supervisor)

.....
Date and Sign

.....
Surv. R. S. Awolaye
Project Coordinator

.....
Sign and Date

.....
Surv. I. I. Abimbola
Head of the Department

.....
Sign and Date

.....
External Examiner

.....
Sign and Date

DEDICATION

I dedicate this project report to my parents

ACKNOWLEDGEMENT

First and foremost, I am deeply grateful to Almighty Allah for His infinite mercy, protection, and guidance throughout the course of my National Diploma (ND) program.

I sincerely appreciate my supervisor, Surv. Kabir, for his invaluable support, guidance, and encouragement throughout the project. My heartfelt thanks also go to my assistant supervisor, Ambimbola Isau, for her assistance and commitment. I am equally grateful to all my lecturers, including Surv. Banji, Surv. Felix Diran, Surv. Kazeem, and others, for their dedication and contributions to my academic journey.

Special appreciation goes to Mr. and Mrs. Abubakar for their unwavering parental love, support, and encouragement, which played a significant role in the successful completion of this program.

Finally, I extend my profound gratitude to everyone who supported me—both financially and morally—throughout this journey. May Allah reward you all abundantly.

ABSTRACT

Topographical Survey of Part of Kwara State Polytechnic Landed Property (I.E.S.) situated along Old Ilorin Jebba road in Moro Local Government Area of Kwara State, was carried out in order to define the extent of the boundary by carrying out perimeter survey and to produce detailed topographical plan of the land area that will aid in effective planning and design of future development. The procedure involves: Planning, Reconnaissance survey, Monumentation, Traversing, Detailing, spot heighten to produce the spot height of the entire area and along the boundary line. The total area covered was 4.768 hectares over six traverse stations. KOLIDA KTS Total station (KTS-400L) and handheld GPS were employed for the execution of the project. After the completion of the field work, all the data obtained from the field operations were downloaded, processed, analyzed and plotted using Auto CAD 2007 Software and Surfer 8.0 Software at a scale of 1: 2,500. All measurements, observations, computations and plotting were done in strict compliance with the survey rules and regulations.

TABLE OF CONTENTS

CHAPTER ONE

- 1.0 Introduction
- 1.1. Statement of the problem
- 1.2. Aim of the project
- 1.3. Objectives of the project
- 1.4. Scopes of the project
- 1.5. Specifications of the project
- 1.6. Project location area
- 1.7. Personnel involve

CHAPTER TWO

- 2.0. Literature review

CHAPTER THREE

- 3.0 Project Planning
- 3.1 Office Planning
- 3.2 Field Recce
- 3.3 Schedule of the field work
- 3.4 instruments /equipments used
- 3.5 test of instrument
- 3.6 data acquisition/field operation
- 3.7 Monumentation
- 3.8 traversing procedure
- 3.9 Detail survey and Spot heightens

CHAPTER FOUR

4.0 Data Processing

4.1 Data Downloading

4.2 Computation of Survey Data

4.3 Area and Back Computation

4.4 Plan Production and Presentation

Chapter five

5.0 Summary, Conclusion, Problem Encountered and Recommendation

5.1 Summary

5.2 conclusion

5.3 Problem Encountered

5.4 Recommendation

Appendix

List of tables

3.1 Control Points Data

3.2 Horizontal and Vertical Collimation test reading

3.3 Comparism of old and new values

List of figures

3.1 Recce diagram

3.2 Pre-cast property beacon

3.3 Diagram of spot height