

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

DESIGN OF THE ELECTRICAL
SERVICES of HOTEL APARTMENTS

E/1010

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Design of the electrical installation of Hotel Apartments.

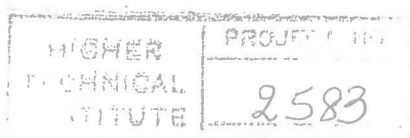
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To

My Family

For all their help which they offered me with love and understanding throughout my years at the H.T.I. and especially throughout this project.

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CONTENTS

Acknowledgement

Contents

Abstract

Symbols and abbreviations

Introduction

Chapter 1

Illumination Design

1.1 Introduction

1.2 Terminology

1.3 Typical calculations

1.4 Tabulated results

Chapter 2

Lighting Design

2.1 Introduction

2.2 Typical Calculations

2.3 Tabulated results of lighting circuits calculations

Chapter 3

Power Design

- 3.1 Socket outlets
- 3.2 Typical calculations
- 3.3 Tabulated results of ring circuits calculations
- 3.4 Fixed electrical appliances
 - 3.4.A1 Cooker circuits
 - 3.4.A2 Tabulated results of cooker circuits calculations
 - 3.4.B.1 Water heater circuits
 - 3.4.B.2 Tabulated results of water heaters circuits calculations
- 3.5 Air conditioning
- 3.6 Tabulated results of the air-conditioning circuits calculations
- 3.7 Swimming Pool
- 3.8. Tabulated results of the swimming pool (underwater lighting, and water pumps).

Chapter 4

- 4.1 Samples of collections
- 4.2 Tabulated results
- 4.3 Feeding cables from busbars system to MDB-U, MDB - A, MDB-B, MDB-C

Chapter 5

Balancing

- 5.1 Tabulated Results of Design Currents
- 5.2 Balancing calculations
- 5.3 Fault level calculations

Chapter 6

Earthing

- 6.1 Introduction**
- 6.2 Protection for safety**
- 6.3 Definitions**

Chapter 7

Inspection and Testing

- 7.1 General**
- 7.2 Visual inspection**
- 7.3 Continuity of Ring final circuit conductors**
- 7.4 Continuity of protective conductors.**
- 7.5 Insulation resistance**
- 7.6 Polarity**

Chapter 8

Telephone Distribution System

- 8.1 General**
- 8.2 Design of the telephone distribution system**
 - 8.2.A Design of the internal wiring**
 - 8.2.B Procedure for planning the internal wiring system**
 - 8.2.C Earthing Arrangement**
 - 8.2.D Installation of the telephone lines**
 - 8.2.E Initial Demand of Telephone points and the maximum future demand**
 - 8.2.F List of connections**

Chapter 9

Costing

Conclusions

Appendices

References

ABSTRACT

This project deals with the design of the electrical and telecommunication services of Hotel Apartments.

The project work includes specifications and tender drawing as well as typical calculations of the design carried out.

The whole design is made according to the relevant for each system regulations.

SYMBOLS AND ABBREVIATIONS

B.S.	British Standard
I.E.E.	Institution of Electrical Engineers
E.F.L.T.	Earth Fault Logo Impedance
M.F.	Maintenance Factor
U.F.	Utilisation Factor
P.F.	Power Factor
S/O	Socket Outlet
SP&N	Single Phase & Neutral
TP&N	Three Phase & Neutral
V.D.	Voltage drop
MCB	Miniature Circuit Breaker
CB	Circuit Breaker
DB	Distribution Board
DC	Distribution Case
CCT	Circuit
%	Percentage
M	Meters

INTRODUCTION

This project deals with the design of the electrical and telecommunication services for Hotel Apartments which will include the following:

- (i) Electrical services
 - (a) Lighting
 - (b) Power

- (ii) Telecommunication services
 - (a) Telephone System

The design was carried out according to:

- (1) The 16th edition of the I.E.E. Regulation and the local EAC conditions of supply.

- (2) The CYTA requirements for telephone installations

The hotel apartments consist of:

Basement

Ground Floor

First Floor

Second Floor