

CONTENTS

INTRODUCTION

SECTION 1: GENERAL REQUIREMENTS

- 1.1 Scope
- 1.2 Electricity supply
- 1.3 Ambient conditions
- 1.4 DEWA enrolment for consultants and electrical contractors
- 1.5 Workmanship
- 1.6 Standards for equipment and materials
- 1.7 Prior approval for electrical works
- 1.8 Application for getting electricity
- 1.9 Power factor (PF) correction
- 1.10 Under voltage (UV) relays with auto-reset timers
- 1.11 Harmonics and rapid voltage changes
- 1.12 Inspection and testing of electrical installations
- 1.13 Maintenance, periodic inspection and testing
- 1.14 Extensions and alterations

SECTION 2: DEFINITIONS

SECTION 3: DEWA INCOMING SUPPLY AND TARIFF METERING

- 3.1 General
- 3.2 Point of supply
- 3.3 Tariff metering

SECTION 4: SELECTION OF CABLES, EQUIPMENT, MATERIALS & WIRING SYSTEM

- 4.1 General
- 4.2 Cables And Conductors
 - 4.2.1 Selection
 - 4.2.2 Minimum Size of Conductors
 - 4.2.3 Current Rating, Size And Voltage Drop
 - 4.2.4 Colour Identification
 - 4.2.5 Wiring Installation Exposed to High Temperatures
 - 4.2.6 Wiring Installation In Hazardous Area
 - 4.2.7 Load Balancing
- 4.3 Wiring accessories and fittings
 - 4.3.1 Conduits and fittings
 - 4.3.2 Trunking
- 4.4 Cable Trays & Supports
- 4.5 Low Voltage Switch Gear and Control Gear Assemblies
 - 4.5.1 Main & Sub-Main Distribution Boards
 - 4.5.2 Final Distribution Boards
- 4.6 Apparatus & Accessories
 - 4.6.1 Switches
 - 4.6.2 Plug and socket outlets