

CONTENTS

SECTION 1

GENERAL

Part 1	Introduction
Part 2	Use and Maintenance of the Site
Part 3	Site Access and Entry onto the Site
Part 4	Protection
Part 5	Interference
Part 6	Project Meetings
Part 7	Submittals
Part 8	Building Demolition and Waste Management
Part 9	Materials
Part 10	Welfare, Occupational Health and Safety
Part 11	Engineer's Site Facilities
Part 12	Contractor's Site Facilities
Part 13	Setting Out of the Works
Part 14	Temporary Works and Equipment
Part 15	Temporary Controls
Part 16	Traffic Diversions
Part 17	Project Co-ordination
Part 18	Other Contractors
Part 19	Regulatory Requirements
Part 20	Clearance of the Site
Part 21	Final Inspection and Handover Procedures
Part 22	Design and Supervision Consultant Quality Requirement
Part 23	Construction Dewatering
Part 24	International Built Sector Standards.
Part 25	Public Satisfaction.

SECTION 2

QUALITY ASSURANCE AND QUALITY CONTROL

Part 1	General
Part 2	Submittals
Part 3	Contractor's Quality Personnel
Part 4	Document and Data Control
Part 5	Quality Records
Part 6	Quality Audits
Part 7	Inspection and Test
Part 8	Materials
Part 9	Nonconformity Monitoring
Part 10	Laboratories
Part 11	Site Meetings and Reports
Part 12	Risk Identification and Management
Part 13	Failure by The Contractor to Meet Acceptable Quality Performance
Part 14	Suspension of Work
Part 15	APPENDIX A – Sampling and Testing Frequencies
Part 16	APPENDIX B – Templates (Contractors Project Quality Plan Template, Contractors Inspection And Test Plan Template, and Quality Non-conformance Template)

SECTION 3

GROUND INVESTIGATION

Part 1	General
Part 2	Boreholes
Part 3	Pits and Trenches
Part 4	Soil Sampling
Part 5	in-Situ Testing, Instrumentation and Monitoring
Part 6	Laboratory Testing

SECTION 4

FOUNDATIONS AND RETAINING STRUCTURES

Part 1	General Requirements for Piling Work
Part 2	Concrete Works for Piling
Part 3	Shadow Foundations
Part 4	Deep Foundations
Part 5	Retaining Structures

SECTION 5

CONCRETE

Part 1	General
Part 2	Aggregates
Part 3	Cementitious Materials
Part 4	Water
Part 5	Admixtures
Part 6	Property Requirements
Part 7	Concrete Plants
Part 8	Transportation and Placing of Concrete
Part 9	Formwork
Part 10	Curing
Part 11	Reinforcement
Part 12	Joints
Part 13	Inspection and Testing of Hardened Concrete
Part 14	Protective Treatments for Concrete
Part 15	Hot Weather Concreting
Part 16	Miscellaneous
Part 17	Structural Precast Concrete
Part 18	Prestressed Concrete
Part 19	Testing of Water Retaining Structures
Part 20	Personnel Qualifications and Certification
Part 21	Post-installed Anchors and Reinforcement Bars

SECTION 6

ROADWORKS

Part 1	General
Part 2	Site Clearance
Part 3	Earthworks
Part 4	Unbound Pavement Materials
Part 5	Asphalt Works
Part 6	Concrete Road Pavements
Part 7	Asphalt Plants
Part 8	Recycled and Stabilised Road Materials
Part 9	Recycled Materials for Roadworks

Part 10	Vehicle Crash Barriers
Part 11	Kerbs, Footways and Paved Areas
Part 12	Fencing
Part 13	Traffic Signs, Markings and Studs
Part 14	Works in Relation to Services
Part 15	Road Lighting
Part 16	Traffic Signals
Part 17	Road Drainage
Part 18	Geosynthetics
Part 19	Miscellaneous

SECTION 7 GREEN CONSTRUCTIONS

Part 1	Introduction
Part 2	–QCS Green Building
Part 3	Energy
Part 4	Water [W]
Part 5	Indoor Environment
Part 6	Cultural and Economic Value
Part 7	Management & Operations [MO]
Part 8	Materials
Part 9	Existing Buildings
Part 10	Sustainable Infrastructure

SECTION 8 DRAINAGE WORKS

Part 1	General
Part 2	Earthworks
Part 3	Pipes and Fittings Materials
Part 4	Pipeline Installation
Part 5	Valves, Penstocks and Appurtenances
Part 6	Miscellaneous Metal Works
Part 7	Miscellaneous GRP Works
Part 8	Protective Coatings and Painting
Part 9	Trenchless Pipeline Construction
Part 10	Pipelines Cleaning and Inspection Survey
Part 11	Sewer Rehabilitation
Part 12	Vacuum Sewerage System

SECTION 9 MECHANICAL AND ELECTRICAL EQUIPMENT

Part 1	General
Part 2	Submersible Pumps (Dry/Wet Well)
Part 3	Centrifugal Pumps (Vertical Spindle & Horizontal Dry Well)
Part 4	Centrifugal Pumps (Split Casing)
Part 5	Archimedian Screw Pumps
Part 6	Surge Control System
Part 7	Lifting Equipment
Part 8	Electric and Pneumatic Actuators
Part 9	Odour Control Equipment-Carbon Type
Part 10	Odour Control Equipment-Scrubber Type
Part 11	Screening Equipment

Part 12	Grit Removal Equipment
Part 13	Aeration Equipment
Part 14	Air Blowers and Compressors
Part 15	Settlement Tank Equipment
Part 16	Tertiary Treatment Granular Filters
Part 17	Sludge Thickening and Dewatering Equipment
Part 18	Mixers and Stirrers
Part 19	Chlorination
Part 20	Washwater Systems
Part 21	Miscellaneous Equipment
Part 22	Ventilation Systems
Part 23	Power Factor correction
Part 24	Specification for Capacitor Units

SECTION 10 INSTRUMENTATION, CONTROL AND AUTOMATION

Part 1	General
Part 2	Telemetry/SCADA
Part 3	Primary Elements
Part 4	Panel Mounted and Miscellaneous Instruments
Part 5	Control Panels and Control Room Hardware

SECTION 11 HEALTH & SAFETY

Part 1	Regulatory Document
01-01	Qatar Legislation and Management
01-02	Occupational Health and Hygiene
01-03	Working at Heights
01-04	Safe Use of Plant Equipment
01-05	Other hazardous Activities
01-06	Human Factors
01-07	Fire and Flammable Substances
01-08	Miscellaneous
Part 2	Safety and Accident Prevention Management / Administration System (SAMAS)
02-00	Health and Safety – Safety and Accident Prevention Management System
02-01	Safety, Health and Environment (She) Management System
02-02	Safety, Health and Environment Procedural Audit Checklists
02-03-01	Safety, Health and Environment Procedures
02-03-02	COSHH (Control of Substances Hazardous to Health)
02-03-03	Safe Working in The Vicinity of Buried and Overhead Services
02-03-04	Electricity at Work
02-03-05	Powered Work Equipment Procedure
02-03-06	Safety, Health and Environmental Training for All Employees, Newly Assigned Employees, Promotees and Sub-Contractor Personnel
02-03-07	Contractors Initial Safety, Health and Environmental Meeting

02-03-08	The Report and Investigation of Accidents and Incidents
02-03-09	Personal Protective Equipment (PPE)
02-03-10	The Safe Use of Cranes & Other Lifting Appliances (Excavators, Tele Handlers and Lorry Loaders)
02-03-11	Permit to Work Systems
02-03-12	Control of Working at Heights
02-03-13	Fire Prevention and Control on Site
02-03-14	Asbestos
02-03-15	Environmental Protection
02-03-16	Learning Event Reporting
02-03-17	Earthquake Emergency Management Plan
02-04-01	Risk Assessment Guides and Method Statement

SECTION 12

Part 1	General
Part 2	Excavations
Part 3	Filling
Part 4	Utility Trenches
Part 5	Installation of Protective Membranes

EARTHWORKS RELATED TO BUILDINGS

SECTION 13

Part 1	General
Part 2	Mortar and Grout
Part 3	Accessories
Part 4	Unit Masonry
Part 5	Masonry Laying

MASONRY

SECTION 14

Part 1	General
Part 2	Membrane Roofing
Part 3	Metal and Plastic Roofing
Part 4	Roof and Deck Insulation
Part 5	Roofing Tiles

ROOFING

SECTION 15

Part 1	General
Part 2	Building Insulation
Part 3	Cold Stores

INSULATION OF BUILDINGS

SECTION 16

Part 1	General
Part 2	Materials
Part 3	Drawings
Part 4	Fabrication

STRUCTURAL STEELWORKS

Part 5	Welding
Part 6	Bolting
Part 7	Accuracy of Fabrication
Part 8	Erection
Part 9	Accuracy of Erected Steelwork
Part 10	Protective Treatment

SECTION 17

METALWORK

Part 1	General
Part 2	Materials Classification
Part 3	Metal Doors and Windows
Part 4	Architectural Metal Work
Part 5	Light Metal Support and Cladding Support
Part 6	Workmanship

SECTION 18

CARPENTRY, JOINERY AND IRONMONGERY

Part 1	General
Part 2	Wood Treatment
Part 3	Structural Timber (Rough Carpentry)
Part 4	Architectural Timber (Finished Carpentry, Millwork)
Part 5	Joinery
Part 6	Fasteners and Adhesives
Part 7	Ironmongery (Hardware)

SECTION 19

PLUMBING WORK

Part 1	General
Part 2	Water Distribution
Part 3	Plumbing Pipework in Trenches
Part 4	Cold Water Storage
Part 5	Hot Water Storage
Part 6	Commissioning of Systems
Part 7	Plumbing for Gases

SECTION 20

DRAINAGE WORKS FOR BUILDINGS)

Part 1	General
Part 2	Internal Drainage Works
Part 3	External Drainage Works
Part 4	Drainage Pipes in Trenches
Part 5	Structures Related to Drainage Work
Part 6	Surface Water Drainage
Part 7	Commissioning of Systems

SECTION 21

ELECTRICAL WORKS AND COMMUNICATIONS WORKS

Part 1	General Provisions for Electrical Installation
Part 2	LV Factory Built Assemblies (FBA's)
Part 3	Protective Devices
Part 4	Motor Starters

Part 5	Low Voltage Variable Speed Controllers
Part 6	Cables and Small Wiring
Part 7	Conduits and Conduit Boxes
Part 8	Trunking
Part 9	Cable Trays
Part 10	Wiring Accessories and General Power
Part 11	Light Fittings
Part 12	Emergency Lighting
Part 13	Telephone Installations
Part 14	Structured Cabling Systems
Part 15	Electric Motors
Part 16	Power Factor Correction Capacitors
Part 17	Standby Diesel Generator Set
Part 18	Uninterruptible Power Supply Systems
Part 19	Sound and Call Systems
Part 20	Elevators/Escalators
Part 21	Lightning Protection
Part 22	Earthing and Bonding
Part 23	Inspection and Testing
Part 24	Documentation Format
Part 25	Electrical Identification
Part 26	Electromagnetic Compatibility
Part 27	Battery and Battery Charger
Part 28	Small Enclosures
Part 29	Underfloor Ducts
Part 30	Duct Bank and Manholes
Part 31	Power Distribution Transformers
Part 32	11 kv Switchgear
Part 33	Actuators
Part 34	MV Variable Frequency Drive
Part 35	MV Soft Starter

SECTION 22 AIR CONDITIONING, REFRIGERATION AND VENTILATION

Part 1	General
Part 2	Central Refrigeration and Air Conditioning Equipment
Part 3	Unitary Equipment
Part 4	Air Handling Equipment
Part 5	Chilled Water Pipework
Part 6	Ductwork and Air-Side Equipment
Part 7	Thermal Insulation
Part 8	Exhaust Fans
Part 9	Accessories

SECTION 23 FIRE PROTECTION AND LIFE SAFETY SYSTEM

Part 1	General
Part 2	Fire Detection and Alarm System
Part 3	Fire Fighting System
Part 4	Emergency Lighting & Emergency Power Supply System
Part 5	Smoke and Heat Control Ventilation System

Part 6 Passive Fire Protection System

SECTION 24 FINISHES TO BUILDINGS

Part 1 General
Part 2 Lath and Plaster
Part 3 Dry Lining (Wall Board)
Part 4 Special Wall Surfaces
Part 5 Tiles
Part 6 Terrazzo
Part 7 Stone Flooring
Part 8 Unit Masonry Flooring
Part 9 Floor Screeds and Treatments
Part 10 Joints, Caulking and Sealants
Part 11 Recessed Duct Covers
Part 12 Carpeting
Part 13 Other Floor Coverings
Part 14 Ceilings

SECTION 25 GLASS AND GLAZING

Part 1 General
Part 2 Glass
Part 3 Workmanship
Part 4 Glazed Curtain Walling System

SECTION 26 PAINTING AND DECORATING

Part 1 General
Part 2 Surface Preparation for Painting
Part 3 Primers, Paints and Coatings
Part 4 Wall Coverings of Decorative Papers/Fabrics

SECTION 27 EXTERNAL WORKS

Part 1 General
Part 2 Block Paved Areas
Part 3 Fences and Gates
Part 4 Fountains and Aquatic Features
Part 5 Site Furniture
Part 6 Flag Poles
Part 7 Protective or Shade Cover Systems
Part 8 Play Field and Park Equipment
Part 9 Miscellaneous Other External Works

SECTION 28 LANDSCAPING

Part 1 Landscape Planting
Part 2 Irrigation System
Part 3 Play Equipment
Part 4 Soil Preparations and Soil Mixes

SECTION 29 RAILWAYS

Part 1	Design Related Issues Aspects
Part 2	Site Clearance
Part 3	Geotechnical Specifications
Part 4	Tunnel
Part 5	Cut and cover Structure
Part 6	Earthworks and Roadworks
Part 7	Concrete Structures
Part 8	Steel Structures
Part 9	Drainage
Part 10	Railway Track
Part 11	Monitoring and Instrumentation
Part 12	Survey and Setting Out of the Works
Part 13	Effect of Underground Structures on Surrounding Existing Structures

SECTION 30 PROJECT TESTING AND COMMISSIONING

Part 1	Commissioning Phases and Activities
Part 2	Commissioning Checklists

SECTION 31 MAINTENANCE, REPAIR AND REHABILITATION

Part 1	Concrete Structures
Part 2	Roadworks
Part 3	Drainage

SECTION 32 ENVIRONMENTAL MANAGEMENT

Part 1	Environmental Framework
Part 2	Environmental Aspects and Control Planning