

1- General

01. Introduction
02. Use and Maintenance of the Site
03. Site Access and Entry onto the Site
04. Protection
05. Interference
06. Project Meetings
07. Submittals
08. Quality Assurance
09. Materials
10. Occupational Health and Safety
11. Engineer's Site Facilities
12. Contractor's Site Facilities
13. Setting Out of the Works
14. Temporary Works and Equipment
15. Temporary Controls
16. Traffic Diversions
17. Project Co-ordination
18. Other Contractors
19. Regulatory Requirements
20. Clearance of the Site
21. Inspection and Handover Procedures
22. New Technologies and Innovations

2- Building Demolition

01. General
02. Building Demolition
03. Hazardous Materials

3- Ground Investigation

01. GENERAL
02. Boreholes
03. Pits and Trenches
04. Soil Sampling
05. In-Situ Testing, Instrumentation and Monitoring
06. Laboratory Testing

4- Piling

01. General Requirements for Piling Work
02. General Requirements for Concrete Piles
03. Precast Reinforced and Prestressed Concrete Piles
04. Precast Reinforced Concrete Segmental Piles
05. Bored Cast-In-Place Piles
06. Bored Piles Constructed Using Continuous Flight Augers and Concrete or Grout Injection through Hollow Auger Stems
07. Driven Cast-In-Place Piles
08. Steel Piles

09. Steel Sheet Piling
10. Static Load Testing of Piles
11. Alternative Methods for Testing Piles
12. Reduction of Friction on Piles

5- Concrete

01. General
02. Aggregates
03. Cement
04. Water
05. Admixtures
06. Property Requirements
07. Batching and Mixing
08. Transportation and Placing of Concrete
09. Formwork
10. Curing
11. Reinforcement
12. Joints
13. Inspection and Testing of Hardened Concrete
14. Protective Treatments for Concrete
15. Hot Weather Concreting
16. Miscellaneous
17. Structural Precast Concrete
18. Prestressed Concrete
19. Testing of Water Retaining Structures

6- Road works

01. General
02. Site Clearance
03. Earthworks
04. Unbound Pavement Materials
05. Asphalt Works
06. Concrete Road Pavements
07. Vehicle Crash Barriers
08. Kerbs, Footways and Paved Areas
09. Fencing
10. Traffic Signs, Markings and Studs
11. Works in Relation to Services
12. Road Lighting
13. Traffic Signals
14. Road Drainage
15. Geosynthetics
16. Miscellaneous

7- Green Constructions

01. Miscellaneous
02. Qatar Sustainability Assessment System – QSAS

03. Energy
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05. Indoor Environment
06. Cultural & Economic Value

8- Sewerage

01. General
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03. Pipes and Fittings Materials
04. Pipeline Installation
05. Valves, Penstocks and Appurtenances
06. Metal Works
07. Glass Reinforced Plastics
08. Painting and Protective Coatings
09. Trenchless Pipeline Construction
10. Pipeline Cleaning and Inspection Survey
11. Sewer Rehabilitation
12. Vacuum Sewerage System

9- Mechanical and Electrical Equipment

01. General
02. Submersible Pumps
03. Centrifugal Pumps
04. Sump Pumps
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06. Surge Control System
07. Lifting Equipment
08. Electric and Pneumatic Actuators
09. Odour Control Equipment Carbon Type
10. Odour Control Equipment Scrubber Type
11. Screening Equipment
12. Grit Removal Equipment
13. Aeration Equipment
14. Air Blowers & Compressors
15. Settlement Tank Equipment
16. Tertiary Treatment Granular Filters
17. Sludge Thickening & Dewatering Equipment
18. Mixers & Stirrers
19. Chlorination
20. Washwater Systems
21. Miscellaneous Equipment
22. Ventilation Systems

10- Instruction, Control and Automation

01. General
02. Telemetry/SCADA

- 03. Primary Elements
- 04. Panel Mounted and Miscellaneous Instruments
- 05. Control Panels and Control Room Hardware

11- Health and Safety

- 1.1 QATAR LEGISLATION AND MANAGEMENT
- 1.2 OCCUPATIONAL HEALTH AND HYGIENE
- 1.3 WORKING AT HEIGHTS
- 1.4 SAFE USE OF PLANT EQUIPMENT
- 1.5 OTHER HAZARDOUS ACTIVITIES
- 1.6 HUMAN FACTORS
- 1.7 FIRE AND FLAMMABLE SUBSTANCES
- 1.8 MISCELLANEOUS
- 2.1 SAFETY, HEALTH AND ENVIRONMENT (SHE) MANAGEMENT SYSTEM
- 2.2 SAFETY, HEALTH AND ENVIRONMENT PROCEDURAL AUDIT CHECKLISTS
- 2.3.1 Risk Identification and Management
- 2.3.2 COSHH (CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH)
- 2.3.3 SAFE WORKING IN THE VICINITY OF BURIED AND OVERHEAD SERVICES
- 2.3.4 ELECTRICITY AT WORK
- 2.3.5 POWERED WORK EQUIPMENT PROCEDURE
- 2.3.6 SAFETY, HEALTH AND ENVIRONMENTAL TRAINING FOR ALLEMPLOYEES, NEWLY ASSIGNED EMPLOYEES, PROMOTEES AND SUB-CONTRACTOR PERSONNEL
- 2.3.7 CONTRACTORS INITIAL SAFETY, HEALTH AND ENVIRONMENTAL MEETING
- 2.3.8 THE REPORT AND INVESTIGATION OF ACCIDENTS AND INCIDENTS
- 2.3.9 PERSONAL PROTECTIVE EQUIPMENT (PPE)
- 2.3.10 THE SAFE USE OF CRANES & OTHER LIFTING APPLIANCES (EXCAVATORS, TELE HANDLERS AND LORRY LOADERS)
- 2.3.11 PERMIT TO WORK SYSTEMS
- 2.3.12 CONTROL OF WORKING AT HEIGHTS
- 2.3.13 FIRE PRECAUTIONS DURING CONSTRUCTION WORKS IN BUILDINGS
- 2.3.14 ASBESTOS
- 2.3.15 ENVIRONMENTAL PROTECTION
- 2.3.16 LEARNING EVENT REPORTING
- 2.4 RISK ASSESSMENT GUIDES

12- Earthworks Related to Buildings

- 01. GENERAL
- 02. EXCAVATION
- 03. FILLING
- 04. UTILITY TRENCHES
- 05. INSTALLATION OF PROTECTIVE MEMBRANES

13- Masonry

- 01. GENERAL
- 02. MORTAR AND GROUT
- 03. ACCESSORIES
- 04. UNIT MASONRY

05. MASONRY LAYING

14- Roofing

01. GENERAL
02. MEMBRANE ROOFING
03. METAL AND PLASTIC ROOFING
04. ROOF AND DECK INSULATION
05. GENERA

15- Thermal Insulation of Building

01. GENERAL
02. BUILDING INSULATION
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16- Structural Steelworks

01. GENERAL
02. MATERIALS
03. DRAWINGS
04. FABRICATION
05. WELDING
06. BOLTING
07. ACCURACY OF FABRICATION
08. ERECTION
09. ACCURACY OF ERECTED STEELWORK
10. PROTECTIVE TREATMENT

17- Metalwork

01. GENERAL
02. MATERIAL TYPES AND FINISHES
03. METAL DOORS AND WINDOWS
04. ARCHITECTURAL METAL WORK
05. LIGHT METAL SUPPORT AND CLADDING SUPPORT
06. WORKMANSHIP

18- Carpentry, Joinery and Ironmongery

01. GENERAL
02. WOOD TREATMENT
03. STRUCTURAL TIMBER
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05. JOINERY
06. FASTENERS AND ADHESIVES
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19- Plumbing Work

01. GENERAL
02. WATER DISTRIBUTION

03. PLUMBING PIPEWORK IN TRENCHES
04. COLD WATER STORAGE
05. HOT WATER STORAGE
06. COMMISSIONING OF SYSTEMS
07. PLUMBING FOR GASES

20- Drainage Works for Buildings

01. GENERAL
02. INTERNAL DRAINAGE WORKS
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04. DRAINAGE PIPES IN TRENCHES
05. STRUCTURES RELATED TO DRAINAGE WORK
06. SURFACE WATER DRAINAGE
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21- Electrical Works

01. GENERAL PROVISIONS FOR ELECTRICAL INSTALLATION
02. MV FACTORY BUILT ASSEMBLIES (FBA'S)
03. PROTECTIVE DEVICES
04. MOTOR STARTERS
05. VARIABLE SPEED CONTROLLERS
06. CABLES AND SMALL WIRING
07. CONDUITS AND CONDUIT BOXES
08. TRUNKING
09. CABLE TRAYS
10. WIRING ACCESSORIES AND GENERAL POWER
11. LIGHT FITTINGS
12. EMERGENCY LIGHTING
13. TELEPHONE INSTALLATIONS
14. STRUCTURED CABLING SYSTEMS
15. ELECTRIC MOTORS
16. POWER FACTOR CORRECTION CAPACITORS
17. STANDBY DIESEL GENERATOR SET
18. UNINTERRUPTIBLE POWER SUPPLY SYSTEMS
19. SOUND AND CALL SYSTEMS
20. ELEVATORS/ESCALATORS
21. LIGHTNING PROTECTION
22. EARTHING AND BONDING
23. INSPECTION AND TESTING
24. DOCUMENTATION FORMAT
25. ELECTRICAL IDENTIFICATIONS
26. ELECTROMAGNETIC COMPATIBILITY
27. BATTERY AND BATTERY CHARGER
28. SMALL ENCLOSURES
29. UNDERFLOOR DUCTS
30. DUCT BANK AND MANHOLES

31. POWER DISTRIBUTION TRANSFORMERS
32. 11 KV SWITCHGEAR
33. ACTUATORS

22- Air Conditioning, Refrigeration and Ventilation

01. GENERAL
02. CENTRAL REFRIGERATION & AIR CONDITIONING EQUIPMENT
03. UNITARY EQUIPMENT
04. AIR HANDLING EQUIPMENT
05. CHILLED WATER PIPEWORK
06. DUCTWORK AND AIR-SIDE EQUIPMENT
07. THERMAL INSULATION
08. EXHAUST FANS
09. ACCESSORIES

23- Fire Fighting and Fire Fighting System

01. GENERAL
02. FIRE ALARM AND DETECTION SYSTEMS
03. ANALOGUE ADDRESSABLE FIRE ALARM SYSTEM
04. FIRE FIGHTING SYSTEM
05. TESTING AND COMMISSIONING

24- Finishes to Building

01. GENERAL
02. LATH AND PLASTER
03. DRY LINING (WALLBOARD
04. SPECIAL WALL SURFACES
05. TILES
06. TERRAZZO
07. STONE FLOORING
08. UNIT MASONRY FLOORING
09. FLOOR SCREEDS AND TREATMENTS
10. JOINTS, CAULKING AND SEALANTS
11. RECESSED DUCT COVERS
12. CARPETING
13. OTHER FLOOR COVERINGS
14. CEILINGS

25- Glass and Glazing

01. GENERAL
02. GLASS
03. WORKMANSHIP
04. GLAZED CURTAIN WALLING SYSTEMS

26- Painting and Decorating

01. GENERAL

02. SURFACE PREPARATION FOR PAINTING
03. PRIMERS, PAINTS AND COATINGS
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27- External Works

01. GENERAL
02. BLOCK PAVED AREAS
03. FENCES AND GATES
04. FOUNTAINS AND AQUATIC FEATURES
05. SITE FURNITURE
06. FLAG POLES
07. PROTECTIVE OR SHADE COVER SYSTEMS
08. PLAY FIELD AND PARK EQUIPMENT
09. MISCELLANEOUS OTHER EXTERNAL WORKS

28- Landscaping

01. LANDSCAPING PLANTING
02. IRRIGATION SYSTEM SPECIFICATIONS
03. PLAY EQUIPMENT GENERAL SPECIFICATION