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ARAB ENGINEERING BUREAU

1 GENERAL

1.1 INTRODUCTION

1.1.1 Scope

- 1 This Section specifies the requirements for the construction and installation of drainage works for buildings. It does not include highway drainage.
- 2 All regulations and requirements shall comply with the latest compulsory regulations or requirements issued by Qatar General Electricity & Water Corporation (KAHRAMAA).
- 3 If the technology or material or specification are not mentioned in this section, modifications are permitted and shall be subjected to approval as mentioned in the introduction of QCS (00-02)
- 4 The purpose of QCS is to provide as a general technical guide for acceptable construction work practices in the State of Qatar, considering this; any addition for technology, material, specification, standard that are not mentioned in this section or their modification, shall be subject to approval as stated in the introduction of QCS (00-02)
- 5 Related Sections are as follows:

Section 1 General

1.1.2 References

- 1 The following standards are referred to in this Part:
BS 8000.....Workmanship on building sites

1.2 REGULATIONS AND STANDARDS

1.2.1 Public Works Authority

- 1 The Contractor shall carry out his work in accordance with the relevant requirements of the Public Works Authority.

1.3 CONTRACTOR'S RESPONSIBILITY

1.3.1 General

- 1 The Contractor is responsible for obtaining all necessary approvals and permits required to complete the parts of the Works included in this Section.

1.3.2 Existing Services

- 1 The Contractor is responsible for locating and identifying all existing services that may affect, or be affected by, the construction of the parts of the Works included in this Section.

1.3.3 Maintenance Period Requirements

- 1 The Contractor is responsible for all the maintenance period requirements for all parts and components of the Works included in this Section.

1.4 CRAFTSMEN

1.4.1 Workmanship

- 1 Workmanship shall comply with the relevant provisions of BS 8000.

- 2 Construction of each part of the Works covered in this Section shall be undertaken by experienced craftsmen capable of performing the tasks allocated to them in a professional and competent manner.
- 3 If required by the Engineer, the Contractor shall instruct craftsmen to demonstrate their ability to perform tasks allocated to him.

1.4.2 Qualifications

- 1 Where the Project Documentation specifies that specialist craftsmen are required to undertake a specific work task, the Contractor shall furnish the Engineer with copies of qualifications pertinent to performing such work tasks for those craftsmen who will be undertaking the work.

1.5 MATERIALS

1.5.1 General

- 1 All materials, components and products shall comply with the relevant provisions of Section 1, General.
- 2 All materials, components and products shall be supplied by experienced manufacturers as designated in the Project Documentation or to the written approval of the Engineer.

1.6 DRAWINGS

1.6.1 Shop Drawings

- 1 The Contractor shall prepare shop drawings for all parts of the Works to be installed or constructed under this Section and submit them to the Engineer in accordance with the relevant provisions of Section 1, General. The shop drawings shall include diagrams, illustrations, schedules, general arrangements of equipment and appurtenances in relation to buildings and structures, method statements and details of specialised installation and construction work.

1.6.2 Co-ordination Drawings

- 1 These shall be prepared by the Contractor to show how interdisciplinary work will be co-ordinated. The location, size and details of fixings, box-outs, ducts, holes, pipe chases and plinths shall be shown on the detailed layout drawings which shall be fully co-ordinated with all other work disciplines.

1.6.3 As-Built Record Drawings and Survey Drawings

- 1 The Contractor shall prepare Record Drawings of all works constructed or installed under this Section in accordance with the relevant provisions of Section 1, General. These shall be prepared as work proceeds. They shall provide a record of any modification to materials and equipment, and to the layout, arrangement and installation of the Works.

1.7 SITE WORKS

1.7.1 Co-operation with other Trades

- 1 The Contractor shall so organise work progress to harmonise with the work of all trades so that work may proceed as expeditiously as possible. The Contractor shall be responsible for the correct placing of the Works and the connection thereof to the work of all related trades.

END OF PART