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ARAB ENGINEERING BUREAU

1 GENERAL

1.1 INTRODUCTION

1.1.1 Scope

- 1 This Section covers the products, erection and all associated accessories for construction of concrete and clay masonry unit blockwork as well as requirements for glass block units, gypsum units, and stonework.
- 2 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).
- 3 Related Sections and Parts are as follows:

- | | |
|------------|---------------------------------|
| Section 5 | Concrete |
| Section 15 | Thermal Insulation of Buildings |
| Section 24 | Finishes to Buildings |
| Section 26 | Painting and Decorating |

1.1.2 References

- 1 The following standards referred to in this Part:
BS 6100Building and civil engineering. Vocabulary -

1.1.3 Definitions

- 1 Definitions used in this Section follow the requirements of BS 6100 unless otherwise stated.

1.2 APPROVAL OF SUPPLY SOURCE

1.2.1 General Requirements

- 1 All products supplied under this Section must be obtained from an approved source.
- 2 The Contractor will not be permitted to change his source of supply without the permission of the Engineer.

1.3 SAMPLES, TESTING AND SUBMITTALS

1.3.1 General Requirements

- 1 Samples of each type of masonry unit to be used shall be submitted to the Engineer for approval before use. All subsequent units are to be up to the standard of the approved samples.
- 2 Initially, twelve (12) units will be selected by the Engineer from the first batch of units manufactured or delivered. The units shall be delivered by the Contractor to an approved independent testing laboratory, or if the Engineer so directed, to the Government Materials Testing Laboratory.
- 3 The sample is to be accompanied by the following written information:
 - (a) type of unit
 - (b) means of identification of unit
 - (c) name of manufacturer

- (d) type of masonry units making machine
 - (e) capacity of plant and present stocks available
 - (f) certificates stating that the units are suitable for the purpose for which they are to be used.
- 4 A number of units to indicate colour range for exposed work to be submitted to the Engineer for approval prior to commencement of the Works.
- 5 Further samples will be selected and tested as directed by the Engineer.
- 6 The Contractor shall submit details of his proposed methods for reinforcement to the Engineer for approval. The Contractor shall also submit details of his proposed methods for constructing lintels, anchors and anchor channels.
- 1.3.2 Sample Panels**
- 1 Before any fair or faced masonry work is commenced, the Contractor is to erect one sample panel, size 1800 mm long x 2000 mm high, of each type of finish to be used.
 - 2 The panels should incorporate a typical opening detail and a typical corner detail, and a typical movement joint.
 - 3 Before starting face brickwork, the Contractor shall lay up a sample panel 2 m long by 1 m high for the Engineer's approval. Random piles of brick as delivered to the Site shall be used. Brickwork to be incorporated in the Works is to match original sample brickwork panels as approved by Engineer. Sample panels must not be removed until directed by Engineer.

1.4 PRODUCT HANDLING

1.4.1 Storage of Materials

- 1 Masonry units delivered to the Site are to be carefully unloaded and handled so as to prevent chipping and breakage. Tipping of units will not be allowed.
- 2 The units are to be stacked on a level area in an orderly manner on planks or other suitable supports to ensure that they are free from contact with the ground. Stored units shall be kept under waterproof covers.
- 3 Packaged materials shall be stored in their original containers.

1.5 WORKMANSHIP

1.5.1 General Requirements

- 1 Tops of walls shall be covered with waterproof covering when the work is not in progress.
- 2 When starting or resuming work, loose mortar and foreign materials shall be cleaned from the top surface of the work. Surfaces of clay type masonry shall be wetted before resuming work.
- 3 Newly laid blockwork and brickwork shall be protected from the harmful effects of sunshine, rain, drying wind, and surface water.
- 4 Blockwork shall be water cured for a minimum of three days.
- 5 Units that will be exposed to view in finished work shall be supplied in adequate quantities to permit selection and mixing of brick from several deliveries in advance of laying. Units shall be exposed to the atmosphere for minimum of two weeks before laying.

1.6 CLEANING

1.6.1 General Requirements

- 1 Clean exposed masonry surfaces on completion. Protect material liable to damage.

1.6.2 Brickwork

- 1 Cut out defective exposed new joints to a depth of approximately 20 mm and repoint. Remove mortar droppings and other foreign substances from the wall surfaces. First wet surfaces with clean water and then wash down with a solution of soapless detergent specially prepared for cleaning brick. Brush with a stiff fibre brush and immediately after, hose down with clean water. Clean surfaces from any traces of detergent, foreign streaks or stains of any nature. Protect adjoining construction materials during cleaning operations. Use of muratic acid for cleaning brickwork is prohibited.

1.6.3 Concrete Masonry Units

- 1 Immediately following setting, brush exposed surfaces free of mortar or other foreign matter.

END OF PART