

## 1 PRELIMINARIES

### 1.1 Standard and Codes

- 1.1.1 The Contractor shall, perform the Works in compliance with all regulations, standard specifications or statutes of the Government of Maldives unless otherwise conform to this specification.
- 1.1.2 The current British Standard Specifications and Codes of Practice shall apply to and form part of these specifications unless otherwise specified in respect of all materials and works to which they have application.

### 1.2 Drawings and Specifications

- 1.2.1 Drawings and Specifications are intended to complement each other, so that if anything is shown on the Drawings, but not mentioned in the specifications or vice versa, it is to be furnished and built as though specifically set forth in all three. If any discrepancies, errors, ambiguities or omissions occur in the Drawings or Specifications, the same shall be referred to the Consultant before proceeding with the Works, and the Consultant decision on such discrepancies, errors, ambiguities or omissions shall be final.
- 1.2.2 In addition to the Drawings and Specifications attached hereto, the Consultant will during the progress of the Works furnish additional Drawings, Specifications, and instructions as may be necessary, in the opinion of the Consultant for the purpose of the proper and adequate execution and maintenance of the Works, and the Contractor shall make his work conform. Such drawings and instructions shall be deemed to be part of the Contract Documents.

### 1.3 Transportation to the Site

- 1.3.1 The Contractor shall provide all necessary transport, handling and storage of all materials, components and the like to their points of installation on site including transport to and from storage. The Contractor shall provide all necessary transport of labour to and from the site.

### 1.4 Schedule and Execution Plan

- 1.4.1 The Contractor shall prepare and submit to the Consultant for approval the construction schedule and an execution plan of temporary facilities, stockyards, etc., before starting the Works.

### 1.5 Repairing and Correction

- 1.5.1 Any breakage(s) or defect(s) of existing buildings, road utilities, or part(s) of them caused by the Works (including transportation for the Works) shall be repaired or corrected by the Contractor, as it is the contractor who shall be held responsible for such.

### 1.6 Workmanship and Materials

- 1.6.1 All workmanship shall be of the best standard. All goods and materials to be incorporated in the Works must be new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the contract.

- 1.6.2 The Contractor shall submit for the approval of the Consultant a list of names and addresses of the manufacturers and trademarks or names of all the various types of materials and goods he proposes to use in the Works. The list shall include reference to the specification's clause or article to which the materials and goods apply.
- 1.6.3 Materials shall be obtained from approved sources and used in accordance with the manufacturer's printed instructions. In the absence of a specification all materials shall comply with a relevant standard. The consultant shall order the removal of any materials, which he has not approved.
- 1.6.4 No orders for materials and goods shall be placed until approval has been obtained for the materials and goods from the consultant.
- 1.6.5 The Contractor shall note that it is his responsibility to include in his price, the cost of the materials and products as specified and no adjustment will be allowed should the consultant reject the alternatives.

### 1.7 Obvious Work

- 1.7.1 Where an item of work is obviously required for the type of work being undertaken then it shall be deemed to have been included even though the item is not specifically mentioned or shown in the Drawings or Specifications.

### 1.8 Protection

- 1.8.1 The Contractor shall have the Works and adjoining properties protected from inclement weather. Any loss or damage caused by weather, carelessness or lack of skilled workers, accident or otherwise shall be of such property that is affected. The Contractor shall provide all necessary dustsheets, barriers and guardrails and clear away at completion.
- 1.8.2 The Works shall be suspended during such a time as may be directed and/or approved by the Consultant if the specified quality of work is difficult to maintain during inclement weather.

### 1.9 Scaffolding

- 1.9.1 The Contractor shall provide, erect, maintain, dismantle and clear away at completion proper and adequate including that required for subcontractor and suppliers. Putlog holes shall be made good to match the adjacent surface as the scaffolding is dismantled.
- 1.9.2 The Contractor shall be responsible for all safety precautions in connection with the scaffolding including the provision of all bracing, scaffold boards, toe boards and the like and for entire sufficiency for the Works.

### 1.10 Construction Machinery, Plants and Equipment's

- 1.10.1 All necessary construction machines shall be provided and maintained by the Contractor and shall be approved by the Consultant.
- 1.10.2 If cranes or any other type of plant which places any load on the structure are proposed, all details of such plant shall be submitted to the Consultant for approval before commencement of the Works. If approved by the Consultant and acceptable, permission may be given for the structure to be strengthened, in order to carry out loads, and the Contractor shall be responsible for any resulting additional costs.
- 1.10.3 The Contractor shall be responsible for making good to the satisfaction of the Consultant any damage to the permanent structure that may be caused by his plant and equipment.

### 1.11 Samples

- 1.11.1 The Contractor shall furnish for the approval with reasonable promptness, all samples as directed by the consultant. The Consultant shall check and approve such materials with reasonable promptness only for conformance with the design concept of the Works and for compliance with the information given in the Contract Document. The Works shall be in accordance with the approved samples
- 1.11.2 All samples shall be delivered to the Consultant's office with all charges in connection therewith paid by the Contractor and deemed to be included in the Contract Price.
- 1.11.3 Duplicate final approved samples, in addition to any required for the Contractor's use, shall be furnished to the Consultant, one for office use and one for the site.
- 1.11.4 Samples shall be furnished so as not to delay fabrication, allowing the consultant reasonable time for consideration of the sample submitted.
- 1.11.5 Each sample shall be properly labelled mentioning the name and quality of the material, manufacturer's name, name of project, the contractor's name and date of submission, and the specification clause to which the sample refers.

### 1.12 Ordering Materials

- 1.12.1 The Bills of Quantities shall not be used as a basis for ordering materials and the Contractor is entirely responsible for assessing the quantities of materials to be ordered.
- 1.12.2 Upon receipt of the Consultant's order to commence the Works, the Contractor shall immediately place orders for all required materials and will be held responsible for any delays occurring due to late placing of such orders.
- 1.12.3 The Contractor shall pay all expenses, taxes and dues etc. incurred on the procurement of materials from abroad

### 1.13 Water and Electricity for the Works

- 1.13.1 The Contractor shall make all necessary arrangements and provide all water for the proper execution of the Works, together with all transport, temporary plumbing, storage and distribution, pay all charges and alter, adapt and maintain temporary work as necessary and remove and make good at completion.
- 1.13.2 The Contractor shall make all necessary arrangements to provide all artificial lighting and power (maintain a generator if necessary) for the proper execution and security of the Works and protection, with all meters, temporary wiring and fittings, pay all charges and alter adapt and maintain the temporary work as necessary and remove and make good at completion.

### 1.14 Site Offices for Contractor

- 1.14.1 The Contractor shall provide maintain and clear away on completion of the Contract all necessary site offices, canteens, mess-areas and welfare facilities, toilets and all other temporary buildings and the like for all site staff employed by the Contractor and required by subcontractors and suppliers.
- 1.14.2 The offices shall be open at all normal working hours to receive instructions, notices and other communications.
- 1.14.3 The Contractor shall obtain the approval of the Consultant of the proposed site layout, type and drainage arrangement of all the buildings prior to erection of same. All buildings shall be supplied and maintained in good condition and of neat

appearance; all maintenance to same as instructed by the Consultant shall be carried out at the Contractor's expense.

- 1.14.4 Under no circumstances shall overnight accommodation be permitted on Site except for the site watchman in carrying out his duties.

#### **1.15 Contractor's Site Area**

1.15.1 Throughout the period of the Contract the Contractor shall maintain the area of his operation within the limits of the Site in a clean, tidy and safe condition by arranging materials and the like in an orderly manner. All rubbish, debris, waste materials and the like shall be systematically cleared from the Site as it accumulates.

1.15.2 The Contractor shall take all steps necessary as directed by the Consultant to minimize or eliminate dust, noise or any other nuisance, which may occur. Plants emitting excessive dust, smoke, excessive noise or another nuisance shall not be permitted.

#### **1.16 Progress Meetings**

1.16.1 During the course of the Works, progress meetings shall be held at fortnightly intervals for the purpose of coordinating the Contractor's works and to ensure that full compliance is maintained.

1.16.2 Minutes of such meetings should be recorded; copies will be distributed to all persons concerned and full effect shall be given to all instructions contained therein.

1.16.3 Prior to such meetings the Contractor shall give to the Consultant's Representative details in writing of that portion of the Works he proposes to construct during the coming two weeks with details of the plant and method he proposes to employ. These proposals shall be discussed at the meeting and no work based on such proposals shall proceed without the approval of the Consultant's Representative.

1.16.4 The Contractor shall submit all reports as instructed by the Consultant in connection with progress meetings and the day to day management of the Works.

#### **1.17 Progress Photographs**

1.17.1 The Contractor shall supply once a month, at the time of submitting his Interim Certificates, twelve photographs from 36 exposures showing the progress of the Works. The Consultant shall direct the times and position from which the photographs are to be taken.

1.17.2 The photographs shall be submitted in three copies dismounted of a size not less than 15 x 10 centimetres with the description of the viewpoint stamped in ink on the back. The negative shall have the date on it and remain the property of the Consultant and no prints from these negatives may be supplied to others unless previously authorized in writing by the Consultant.

#### **1.18 Setting Out**

1.18.1 The Contractor shall be responsible for accurately setting out the Works to the specified positions, dimension, levels and Building Lines and also checking the site surveys for dimensional and level accuracy and reporting any discrepancies before the building work commences.

1.18.2 The Contractor shall provide the Consultant with all facilities, equipment and labour to enable him to check the setting out and levels of the Works at all times.

The checking of any setting out point, line or level by the Consultant shall not in any way relieve the Contractor of his responsibility

- 1.18.3 All setting out points, benchmarks, site rails, pegs and other survey points shall be clearly marked and protected from damage or disturbance during the execution of the Works

#### **1.19 Bill boards**

- 1.19.1 The Contractor shall provide and maintain two billboards for the Site each consisting of a plastic board panel of size not less than 2 m x 2 m supported 2.5 m above the ground with angled steel framing or similar material and fixed in concrete foundations.

- 1.19.2 Each board shall have the following written in both Dhivehi and English by a skilled sign maker:

1.19.2.1 The name of Project

1.19.2.2 The name of Employer.

1.19.2.3 The name and address of Consultant

1.19.2.4 The name and address of Contractor

- 1.19.3 A scaled layout shall be prepared and submitted for the Consultant's approval before fabrication.

- 1.19.4 No advertising material other than the above will be permitted.

- 1.19.5 The location and layout of Sub-Contractors or Manufacturer's billboards, if allowed, must be submitted for the Consultant's approval.

#### **1.20 Loading in Excess of Design Load**

- 1.20.1 No loading in excess of the design loading shall be placed on any portion of the structure without the written permission of the Consultant

- 1.20.2 If such permission is granted, all beams or other members of the structure which are subjected to loading other than the designed loading shall be strengthened and supported to the satisfaction of the Consultant, and the Contractor shall be responsible for any resulting additional costs

- 1.20.3 The Contractor shall be responsible for making good to the satisfaction of the Consultant any damage to the permanent structure that may be caused by such over-loading.

#### **1.21 Building Permit**

- 1.21.1 The Contractor shall allow for obtaining the building permit and for paying all fees in connection therewith.

#### **1.22 Permanent Drainage, Electricity and Water connection**

- 1.22.1 The Contractor shall allow for arranging and obtaining the permanent drainage, water and electricity connections to the proposed development and he shall be responsible for making all payments in connection therewith.

#### **1.23 Handing Over**

- 1.23.1 Prior to handing over the proposed development, the Contractor shall gain the approvals and respective Completion Certificates from all the local government

authorities and the like that the Works has been completed in accordance with their requirements.

1.23.2 Any payment in connection therewith shall be paid by the Contractor.