

## SPECIFICATION SECTION 01100

### CONTRACTOR'S MOBILIZATION AND DEMOBILIZATION

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## **SPECIFICATION SECTION 01100 - CONTRACTOR'S MOBILIZATION AND DEMOBILIZATION**

### **1. DESCRIPTION**

This Specification Section prescribes the general provisions for the mobilization and demobilization of the Works by the Contractor.

### **2. REQUIREMENTS**

#### **2.1 References**

These requirements are intended to be read in conjunction with and mutually explanatory of the requirements and following provisions in the Conditions of Contract:

Subclause 6.8, Contractor's Superintendence;

Subclause 6.9, Contractor's Personnel;

Subclause 8.3, Programme and

Clause 11, Defects Liability

of the Conditions of Contract.

#### **2.2 Mobilization Program**

- (a) The Contractor shall submit to the Engineer, for his review, a detailed Mobilization program. This Mobilization program shall be submitted as an attachment of the Program to be submitted specified in subclause 8.3 of the Conditions of Contract.
- (b) The Program shall include a schedule noting the anticipated arrival of all construction equipment, type of equipment, number of each type of equipment and facilities as well as the arrival of all key personnel of the Contractor and subcontractors.
- (c) The Mobilization program shall include a layout plan noting the location, size and arrangement of all temporary facilities, including security fencing and entrance and exit gates, sewage and water lines and systems, electrical supply, access and facility roads.
- (d) The Contractor shall complete the construction of all Temporary Works and the mobilization of all key personnel, equipment and plant no later than 120 days after the date of the Notice to Proceed. This completion date shall be shown as a milestone in the Program submitted under subclause 8.3 of the Conditions of Contract.
- (e) The Contractor's Mobilization program shall include a plan for the maintenance and restoration of (1) junctions of site access roads 3, 4 and 5 with the public roads and (2) any other improvement/temporary works carried out to the public roads in compliance with Specification Section 1600 Maintenance and Protection of Traffic.

- (f) The Contractor shall update the Mobilization program, on a weekly basis, to reflect the progress of the Mobilization.

### **2.3 Superintendents and Assistants**

- (a) The Contractor shall mobilize and keep all the key staff as required in the Prequalification (PQ) Documents, Conditions of Contract and this Specification Section.
- (b) The Contractor shall not remove his staff from the Site without the express written permission of the Engineer. Fourteen (14) days prior to any such removal or upon the issue of a notice of intent to remove staff, the Contractor shall nominate a replacement for the Engineer's approval.

### **2.4 Land for Construction Purposes, Detours, Plant and Other Uses**

- (a) The Contractor shall acquire all additional working areas and any other areas required for construction purposes and access or other uses as stipulated in the Specification Sections
- (b) Before entering the Site the Contractor shall give written notice to the Engineer. The Contractor shall also give separate notices to each owner and occupier or Authority having jurisdiction over the Site.
- (c) Before entering any additional work areas the Contractor shall obtain and forward to the Engineer a copy of the written consent of the owner, occupier or Authority having jurisdiction over the land and shall state the purposes for which such land is to be used. The Contractor shall define the period of occupation for which such consent is granted.
- (d) The Contractor shall; select, arrange for and if necessary pay for the use of work areas for construction purposes, detours, plant and other uses necessary for the execution of the Works.
- (e) Before using any land belonging to the Government or to a private landowner for any purposes in connection with the execution of the Works the Contractor shall obtain the Engineer's approval for such use.
- (f) If any utility passing through the Site is affected by the Works the Contractor shall report the same to the Engineer in accordance with the requirements of Specification Section 02300 Protection of Existing Utilities.
- (g) On completion of the Contract, or earlier if so directed by the Engineer, all the Contractor's Equipment, temporary facilities and any other encumbrances shall be removed. The Site and lands used shall be properly cleaned, all damage made good and if necessary, the owner paid for the use of the land.

### **2.5 Construction Equipment and Plant**

All the Contractor's Equipment shall, when brought on to the Site, be deemed to be exclusively intended for the construction and completion of the Works and the

Contractor shall not remove the same or any part thereof without the approval of the Engineer.

## **2.6 Contractor's Site Office, Sheds, Stores and Living Quarters**

The Contractor shall supply, equip and maintain up to the issue of the Taking-Over Certificate all his own living accommodation, site offices, sheds and stores necessary for the execution of the Works, and shall make his own arrangements, subject to the approval of the Engineer, with the owner of any land required and if necessary, pay for its use.

## **2.7 Contractor's Workshop and Warehouse**

The Contractor shall maintain on the Site a suitable workshop adequately equipped and provided with utilities to allow for repair of the Contractor's Equipment employed to carry out the Works. He shall also provide a warehouse for equipment spare parts, especially for the parts that frequently fail or are difficult to procure. A qualified workshop manager with an adequate labor force shall be assigned for management and operation of the workshop.

## **2.8 Subsidiary Requirements for Contractor's Facilities**

### **2.8.1 Access Roads**

The Contractor shall construct and maintain suitable entry and exit roads to, from and around all temporary facilities.

### **2.8.2 Works Information Signs**

The Contractor shall erect Works information signs at locations as required by the Engineer within the mobilization period. The size, material, lettering, style of lettering and color of the Works information signs shall be determined by the Engineer. The Contractor shall maintain the signs and remove them upon the issue of the Taking-Over Certificate.

### **2.8.3 Security Fencing**

Security fencing with at least three (3) strands of barbed wire shall be constructed around all temporary facilities. Fencing shall be at least 1.8 meters high and provided with lockable gates at each entry and exit point.

### **2.8.4 Temporary Lighting for the Site**

- (a) The Contractor shall provide lighting; for all temporary facilities at Site, to protect the Works and to maintain suitable working conditions. Temporary lighting shall be provided until the issue of the Taking-Over Certificate.
- (b) The Contractor shall provide circuit and branch wiring complete with area distribution boxes located so that power and lighting are available throughout the Site.

- (c) The Contractor shall furnish generators with a suitable capacity to cope with power outages.

#### 2.8.5 Sanitary Facilities

The Contractor shall furnish temporary sanitary facilities at the Site for all construction workers and others performing work or furnishing services on the Works. Sanitary facilities shall have reasonable capacity, be properly maintained throughout the construction period and obscured from public view to the greatest practical extent. If chemically treated type toilets are provided at least one such toilet shall be furnished for every 20 people. The Contractor shall enforce the use of such sanitary facilities by all personnel at the Site.

#### 2.8.6 Water

- (a) All water required for and in connection with the Contractor's Equipment, devices, dust control, for settling of backfill material or for any other use as may be required for proper completion of the Works, shall be provided by the Contractor.
- (b) In case of shortage of water for use in the Works, the Contractor shall draw water from a well or wells, subject to the approval of the Engineer.
- (c) The Contractor shall provide sufficient supply of bottled drinking water from an acceptable source to all of the Contractor's employees, including all necessary devices for keeping the water in good condition (hot and cold water).

#### 2.8.7 Sewage

All sanitary facilities shall be connected to a suitable sewage treatment facility.

#### 2.8.8 Communication System

The Contractor shall make all necessary arrangements for the installation and usage of a communication system in his offices at the Site.

#### 2.8.9 Contractor's Weigh Bridge and Building

- (a) The Contractor shall provide a building, weigh bridge and other weighing devices, which shall be part of the Contractor's Equipment.
- (b) The weigh bridge shall permit the simultaneous weighing of all the axle loads of each hauling vehicle.
- (c) Each weighing device shall be accurate within 0.5 percent throughout the range of use and shall be; inspected, tested and sealed by the Contractor's independent testing laboratory as often as necessary and/or as the Engineer may deem necessary to assure continued accuracy.

- (d) The Engineer may permit the use of weighing devices for a reasonable period prior to sealing, provided field testing indicates consistent compliance with the tolerance specified herein.
- (e) The Contractor shall have on hand not less than ten (10) standard weights of twenty five (25) kilograms each. The Contractor's Independent Testing Laboratory shall provide services to the Engineer.
- (f) Standard scales, certified or owned by a responsible Local Authority, may be used subject to the approval of the Engineer.
- (g) Truck platform scales for weighing bituminous products shall be equipped with automatic printing devices to record time and weight and one copy of each weight ticket shall be submitted to the Engineer after each measurement of weight.

## **2.9 Filling In Holes and Trenches**

The Contractor, upon completion of any part of the Works, shall immediately, at no additional cost, fill up all holes and trenches that he may have excavated, which are no longer required for the Works, or shall carry out work as required by the Engineer and he shall clear away all rubbish and material that are no longer required for the execution of the Works.

## **3. MEASUREMENT AND PAYMENT**

### **3.1 Method of Measurement**

Mobilization and Demobilization work shall be measured for payment as a lump sum.

The Mobilization and Demobilization provisions and requirements identified in this Specification Section shall be measured for payment in pay item 01100-01.

Any Mobilization and Demobilization Works not specifically identified in this Specification Section but which are necessary for the performance of the Works shall be deemed to be included in pay item 01100-01.

### **3.2 Basis of Payment**

The work under this Specification Section shall be paid for in accordance with the applicable unit prices as indicated in the Bill of Quantities and given below. Payment shall constitute full compensation for performing the requirements of the Contract for the item of work as specified including furnishing all necessary labor, materials, tools, equipment, tests and incidentals.

Payment for Mobilization and Demobilization shall include:

- (a) Transport of Contractor's Equipment or any additional Contractor's Equipment or plant required from the port of unloading in Vietnam to the Site and installation;
- (b) The supply, installation and maintenance of the Contractor's vehicles, living quarters, offices, workshops, stores, communication system and facilities.

- (c) Such other items as are expressly stated in this Specification Section;
- (d) The dismantling of the Temporary Works by the Contractor, with the removal of all the installations, Contractor's Equipment and the restoration of the Site to the original state;
- (e) Protection and restoration of boundary markers and right of way (ROW), which were already handed over to the Contractor.
- (g) All the work including the costs for all incidentals works necessary to comply satisfactorily with the requirements of this Specification Section.

Payments shall be made in lump sum by the following installments:

- ◆ **20%** (twenty percent) on completion and acceptance by the Engineer of the Contractor's Site offices and mobilization schedule.
- ◆ **50%** (fifty percent) over the duration of the Contract construction period prorated to the progress of the Works expressed in financial terms through the Interim Payment Certificates, upon the Engineer's Certificate of the Contractor's compliance with the requirements of this Specification Section.
- ◆ **30%** (thirty percent) upon; the issue of the Taking-Over Certificate, the Completion of the removal of all the Temporary Works and the restoration of the Site to its original condition to the approval of the Engineer.

No additional payment shall be recognized for any additional mobilization of personnel, plant, equipment and materials.

<b><u>Pay Item</u></b>	<b><u>Description</u></b>	<b><u>Unit</u></b>
<b>01100</b>	<b>Contractor's Mobilization &amp; Demobilization</b>	
01100-01	Mobilization and Demobilization	LS