

**Part 1            General**

**1.1            MEASUREMENT**

.1            Method of measurement:

- .1            The provisions for labour, materials, tools, equipment, protection, transportation, administration fees, profit and necessary financing, etc., required to complete the work of this project are to be included in each of the items mentioned below, except where otherwise indicated.
- .2            Items measured as a global unit shall be broken down and submitted to the Departmental Representative within ten (10) days after contract award. For the mobilization and demobilization, the broken down costs shall be submitted for each intended piece of equipment. Any item that cannot be included in a specific measurement item shall be included in the Site Layout item.
- .3            The method of measurement of labour, tools or materials categories, constituting the work will be the following:

Lump sum Work:

.1            Item no 1 : Site layout

This item will be measured globally and includes the installation of a construction trailer with the required equipment, facilities, and mobilization of workers and equipment. This includes all the elements of Division 01 of the specification for this portion of the project. The site layout is paid in proportion to the payment claims.

.2            Item no 2 : Demolition of concrete slab

This item will be measured globally and includes the equipment, machinery and labor needed for the excavation and demolition work of the concrete surfaces and slab, as well as all costs related to the transportation and disposal of the materials off site in accordance with relevant regulations.

.3            Item no 3 : Consolidation of working surfaces

This item will be measured globally and includes the equipment, materials and labor needed for the consolidation work, the excavation, and the installation of accessories required to distribute the loads. The bid price should also include the demobilization of the load distribution system. At work completion, the surface should be clean and free of debris.

.4            Item no 4 : Backfilling beneath the concrete deck

This item will be measured globally and includes the equipment, materials and labor needed for executing the work, the backfilling and compaction as follows:

- a)            Supply and installation of a geotextile at the bottom.
- b)            Supply, placement and compaction of quarry run.

- c) Supply and installation of a geotextile between the quarry run and the MG-20 material.
- d) Supply, placement, compaction and grading of the MG-20 material.

The bid price shall also include removal and off-site disposal costs of non-recoverable material and all related works required for the implementation of backfilling and compaction.

.5 Item no 5 : Patching of perforations in the sheet piling

This item will be measured per square meter ( $m^2$ ) of steel plates placed on the sheet piles as indicated on the plan. The bid price must include all costs, including the supply, labour, the placement in the structure, any specialized machinery for this type of work and subcontractors, if required. The Contractor must take into account in his costs, the occurrence of two (2) tide periods for this type of work.

Unit Price Work:

.6 Item no 6 : Stone production and delivery

This item will be measured in metric ton of material delivered to the site. The bid price will include the production, transport, weighing and stockpiling in the area of stone storage area. For the purposes of measurement and payment, this item is divided into the following unit prices:

- a) Armour stone 3 to 5 tonnes (m.t.)
- b) Filter stone 300 to 500 kg (m.t.)
- c) Quarry run (m.t.)

.7 Item no 7 : Stone placement

This item will be measured in metric ton of material placed in the structure. Bid price to include handling between the storage area and the wharf, and the implementation of the quarried stone. For the purposes of measurement and payment, this item is divided into the following unit prices:

- a) Armour stone 3 to 5 tonnes (m.t.)
- b) Filter stone 300 to 500 kg (m.t.)
- c) Quarry run (m.t.).

.8 Item no 8 : Concrete deck with reinforcing mesh

This item will be measured per square metre ( $m^2$ ) of concrete deck placed as indicated in the plans and specifications. Bid price to include all costs including the supply, labour, implementation in the structure, any specialized equipment for this type of work and subcontractors as needed. Bid price to include all preparation as follows:

- a) Sawcuts.
- b) Final compaction.
- c) Reinforcing mesh.
- d) Concrete, including the finish.

e) Sealing of joints around existing deck.

The bid price shall also include shipping and off-site disposal costs of non-recoverable material and all related works required for the implementation of backfilling and compaction.

<b>Part 2</b>	<b>Product</b>
<b>2.1</b>	<b>NOT USED</b>
.1	Not used.

<b>Part 3</b>	<b>Execution</b>
<b>3.1</b>	<b>NOT USED</b>
.1	Not used.

**END OF SECTION**