

**(A) Special Conditions of Contract**

Refuse  
containment  
booms

Notwithstanding the provision of Clause 82 of the General Conditions of Contract, if the Contractor shall fail to carry out any work required under Particular Specification Clause No. \_\_\_\_ within a reasonable time, the Engineer may give the Contractor \_\_\_\_ days' notice in writing to carry out such work. If the Contractor fails to comply with such notice, the Employer shall be entitled to carry out such work by his own workmen or by other contractors. Without prejudice to any other remedy, all additional expenditure reasonably incurred by the Employer in having such work carried out shall be recoverable by the Employer from the Contractor.

**(B) Particular Specification**

**REFUSE CONTAINMENT BOOMS AND FLOATING REFUSE**

- (i) The Contractor shall provide and install refuse containment booms as detailed on the Drawings before commencing dumping from barges and before direct land dumping of fill material into the sea. The Contractor shall provide adequate sinker blocks and lit marker buoys to ensure that the booms are visible above the water line and are securely anchored. The lights on the marker buoys shall be quick flashing yellow lights visible all round the horizon at a distance of at least 2 kilometres and details shall be submitted to the Engineer for approval. The maximum spacing between the flashing yellow lights shall be 30 metres. The Contractor shall properly maintain and operate the booms to the satisfaction of the Engineer throughout the progress of the reclamation work and shall replace the same if necessary when they are under repair or beyond repair. The refuse containment booms shall revert to the Contractor upon the completion of all reclamation work or at such earlier date as the Engineer may instruct in writing.
- (ii) The Contractor shall provide sufficient light mechanized marine craft with crew and labour for collecting floating refuse and preventing floating refuse within the Site from drifting into public waters. Floating refuse collected shall be removed to \_\_\_\_ (location to be specified or "approved tips off the Site") by the Contractor.
- (iii) The Contractor shall make due allowance in programming the reclamation work for the provision, installation, operation and maintenance of the refuse booms and the regular collection of the floating refuse throughout the progress of the reclamation work.
- (iv) The Contractor's attention is drawn to Special Condition of Contract Clause No. \_\_ on the Employer's power to carry out work by person other than the Contractor if the Contractor shall fail to carry out any work required under this Particular Specification Clause.

**(C) Particular Preamble to the Bills of Quantities**

**Refuse Containment Booms**

**Units** The units of measurement shall be :

- (i) provision..... item
- (ii) operation and maintenance ..... day
- (iii) removal ..... item

**Measurement** The measurement of operation and maintenance of refuse containment booms shall be the period between the date of complete installation of the booms and the date instructed by the Engineer for their removal or the date (or extended date) for completion of the Works or any Section(s) of which the reclamation works form part, whichever is the earlier.

**Itemisation** Separate items shall be provided for refuse containment booms in accordance with paragraphs 3 and 4 of the General Principles of the Method of Measurement and the following :

Group	Feature
I	1. Different types of refuse containment booms

**Provision of Refuse Containment Booms** The item for provision of refuse containment booms shall in accordance with General Preambles paragraph 2\* include for :

- Item Coverage**
- (a) marker buoys with lights;
  - (b) nylon strings, polyethylene net and connections, iron chain;
  - (c) sinker blocks and steel wire;
  - (d) assembly and installation at the Site

**Operation and Maintenance of Refuse Containment Booms** The item for operation and maintenance of refuse containment booms shall in accordance with General Preambles paragraph 2\* include for :

- Item Coverage**
- (a) operation and repairs;
  - (b) power supply to navigation lights;
  - (c) relocation within the Site;
  - (d) maintenance and cleaning;
  - (e) an adequate replacement when not available or unserviceable;
  - (f) temporary dismantling and re-installation.
  - (g) temporary opening and closing of the booms for passage of barges, sampans and light marine craft as necessary.

**Removal of Refuse Containment Booms** The item for removal of refuse containment booms shall in accordance with General Preambles paragraph 2\* include for :

- Item Coverage**
- (a) taking up and dismantling the booms with care;
  - (b) disposal of the booms.

**Collection of Floating Refuse**

**Unit** The unit of measurement shall be :

- (i) Collection of floating refuse ..... day

**Measurement** Measurement for collection of floating refuse shall be the period between the date of complete installation of the booms and the date instructed by the Engineer for their removal or the date (or extended date) for completion of the Works or any Section(s) of which the reclamation works form part, whichever is the earlier.

**Itemisation** Separate items shall be provided for collection of floating refuse in accordance with paragraphs 3 and 4 of the General Principles of the Methods of Measurement and the following :

Group	Feature
I	1. Collection of floating refuse

**Collection of Floating Refuse**                      The item for collection of floating refuse shall in accordance with General Preambles paragraph 2\* include for :

- Item Coverage**
- (a)            labour and light mechanized marine craft with crew for collection of floating refuse;
  - (b)            disposal of floating refuse to specified location or approved tips off the Site.

**(D) Bills of Quantities**

<u>Description</u>	<u>Unit</u>
<b><u>Refuse Containment Booms :</u></b>	
(a)    Provision	Item
(b)    Operation and maintenance	Day
(c)    Removal	Item
<b><u>Collection of Floating Refuse :</u></b>	
(a)    Collection of floating refuse	Day

**(E) Notes to Tenderers**

The attention of tenderers is drawn to the Special Conditions of Contract in respect of refuse containment booms.

(\* refers to the Standard Method of Measurement for Civil Engineering Works, Hong Kong Government (SMM) 1992 Edition. Replace `paragraph 2' with `paragraph 1' if SMM 1988 Edition is used.)