

# STANDARD METHOD OF MEASUREMENT FOR CIVIL ENGINEERING WORKS

1992 Edition

## CORRIGENDUM No. 1/2000

### SECTION 1 PRELIMINARIES

Add the following after Para. 1.37:

#### ENVIRONMENTAL MITIGATION MEASURES

**Units**

1.38 The units of measurement shall be:

- (i) provision, maintenance and removal of environmental mitigation measures .....item.

**Itemisation**

1.39 Separate items shall be provided for environmental mitigation measures in accordance with General Principles paragraphs 3 and 4 and the following:

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Group

Feature

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I 1. Environmental mitigation measures

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II 1. Air related measures.  
2. Noise related measures  
3. Water quality related measures  
4. Other stated measures

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III 1. Provision  
2. Maintenance  
3. Removal

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**Provision of  
environmental  
mitigation measures**

1.40 The items for provision of environmental mitigation measures shall, in accordance with General Preambles paragraph 2, include for:

- Item coverage**
- (a) engagement of Environmental Specialists to provide advice and service on the environmental mitigation measures;
  - (b) provision of pollution avoidance and environmental mitigation measures;
  - (c) complying with the requirements on environmental mitigation;
  - (d) all equipment, facilities, instruments, operatives and technicians;
  - (e) attending meetings, District Board meetings etc. by the Environmental Specialists as and when requested by the Engineer or the Engineer's Representative;
  - (f) modification of environmental mitigation measures as recommended by the Environmental Specialists.

**Maintenance of environmental mitigation measures**      1.41      The items for maintenance of environmental mitigation measures shall, in accordance with General Preambles paragraph 2, include for:

- Item coverage**
- (a) maintenance of equipment, facilities and instruments and equivalent replacement of equipment, facilities and instruments when the original equipment, facilities and instruments are unserviceable;
  - (b) replenishment of consumables;
  - (c) operatives;
  - (d) power supply;
  - (e) cleaning.

**Removal of environmental mitigation measures**      1.42      The items for removal of environmental mitigation measures shall, in accordance with General Preambles paragraph 2, include for:

- Item coverage**
- (a) dismantling all equipment, facilities and instruments for environmental mitigation measures;
  - (b) removing all equipment, facilities and instruments off site;
  - (c) reinstatement of the site to its original condition.

## ENVIRONMENTAL MONITORING MEASURES

### **Units**

- 1.43 The units of measurement shall be:
- (i) provision, maintenance and removal of environmental monitoring measures .....item.

### **Itemisation**

- 1.44 Separate items shall be provided for environmental monitoring measures in accordance with General Principles paragraphs 3 and 4 and the following:

Group	Feature
	1. Environmental monitoring measures
	<ul style="list-style-type: none"> <li>1. Air related measures.</li> <li>2. Noise related measures</li> <li>3. Water quality related measures</li> <li>4. Other stated measures</li> </ul>
	<ul style="list-style-type: none"> <li>1. Provision</li> <li>2. Maintenance</li> <li>3. Removal</li> </ul>

### **Provision of environmental monitoring measures**

- 1.45 The items for provision of environmental monitoring measures shall, in accordance with General Preambles paragraph 2, include for:

### **Item coverage**

- (a) engagement of Environmental Specialists to provide advice and service on the environmental monitoring measures;
- (b) provision of environmental monitoring measures;
- (c) provision of access to monitoring and control stations;
- (d) complying with the requirements on environmental monitoring;
- (e) maintaining the service of Environmental Specialists;
- (f) work boats including operatives;

- (g) all equipment, facilities and instruments, attendants and technicians;
- (h) setting out and marking sampling locations;
- (i) carrying out monitoring works at designated monitoring and control stations;
- (j) calibration of all equipment including sampling, testing and monitoring equipment;
- (k) provision of training to personnel for operation of the equipment;
- (l) all sampling and testing in an approved laboratory;
- (m) taking readings, measurements and recording;
- (n) reporting of monitoring data, including submission of reports;
- (o) identifying any environmental deficiency, proposing rectification measures, rectification of such deficiency as approved and including additional environmental monitoring works;
- (p) arranging and attending environmental site inspections;
- (q) overtime work outside normal working hours;
- (r) attending meetings, District Board meetings etc. by the Environmental Specialists as and when requested by the Engineer or the Engineer's Representative.

**Maintenance of  
environmental  
monitoring measures**

1.46 The items for maintenance of environmental monitoring measures shall, in accordance with General Preambles paragraph 2, include for:

**Item coverage**

- (a) maintenance of access to monitoring and control stations;
- (b) maintenance of equipment, facilities and instruments and equivalent replacement of equipment, facilities and instruments when the original equipment, facilities and instruments are unserviceable;
- (c) replenishment of consumables;
- (d) operatives;
- (e) power supply;
- (f) cleaning.

***Removal of  
environmental  
monitoring measures***

1.47 The items for removal of environmental monitoring measures shall, in accordance with General Preambles paragraph 2, include for:

***Item coverage***

- (a) dismantling all equipment, facilities and instruments for environmental monitoring measures;
- (b) removing all equipment, facilities and instruments off site;
- (c) reinstatement of the site to its original condition.

**Standards Unit  
Civil Engineering Department  
March 2000**