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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<tr>
<th>Group</th>
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<td>I</td>
<td>1. Environmental mitigation measures</td>
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</table>
| II    | 1. Air related measures.  
|       | 2. Noise related measures  
|       | 3. Water quality related measures  
|       | 4. Other stated measures |
| III   | 1. Provision  
|       | 2. Maintenance  
|       | 3. Removal |

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:
(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.

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

(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.

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

(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:

<table>
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<td>2. Maintenance</td>
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<td></td>
<td>3. Removal</td>
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</tbody>
</table>

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;
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(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

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.

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Removal of environmental monitoring measures

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