

**GENERAL SPECIFICATION
FOR CIVIL ENGINEERING WORKS**

2006 Edition

AMENDMENT No. 3/2009 (August)

VOLUME 1

SECTION 8 PILING WORKS

(a) Clause 8.65(1) **Replace Clause 8.65(1) with the following:**

(1) The bases of excavations for piles shall be cleaned by air-lifting or by other methods agreed by the Engineer before concrete is placed. If excavation is carried out under water, cleaning shall continue until the water is clear and free of particles of soil. Measures shall be taken to prevent the accumulation of silt and other material at the base of the excavation. During the process of base-cleaning, the Contractor shall maintain a sufficient positive water head inside the borehole in order to prevent ingress of water from the outside.

(b) Clause 8.66(3) **Renumber Clause 8.66(3) as 8.66(4)**

(c) Clause 8.66(2) **Renumber Clause 8.66(2) as 8.66(3)**

(d) Clause 8.66(1) **Replace Clause 8.66(1) with the following:**

(1) Each pile shall be concreted as soon as practicable after the permission of the Engineer has been obtained. **If a tremie pipe is used, it must be watertight and of sufficient strength.** Before concreting commences, the Contractor shall submit a method statement of placing tremie concrete to the Engineer for approval. This statement should at least contain the proposals of the immersed depth of the tremie pipe below the upper surface of rising concrete, procedure of safely raising the tremie pipe as concreting proceeds, means of carrying out accurate measurement of the level of the rising concrete surface, etc. This method statement should also include a contingency plan of necessary measures that shall be taken to cater for any incident that the tremie pipe might become blocked or removed from the concrete.

- (e) New Clause 8.66(2) **Add the following new Clause 8.66(2):**

(2) The concrete placed by tremie shall have a minimum designed slump value of 175 mm. The Contractor shall maintain efficient and effective communication with the concrete suppliers for ensuring sufficient workability and continuous supply of concrete throughout the process of concrete placing.

VOLUME 2

SECTION 16

CONCRETE AND JOINTS IN CONCRETE

- (f) Clause 16.43(3) **Replace Clause 16.43(3) with the following:**

(3) The Contractor should include in his method statement a contingency plan of necessary measures that shall be taken to cater for any incident that the tremie pipe might become blocked or removed from the concrete.

**Quality Management & Standards Unit
Civil Engineering and Development Department
26 August 2009**