

GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS

1992 Edition (Hong Kong Government)

CORRIGENDUM No. 2/94

VOLUME 1

SECTION 1

GENERAL

- (a) Clause 1.02(1) **Insert the followings between line 4 and line 5**
- AMD : Amendment**
- (b) Clause 1.12(1)(b) **Delete and**
2nd line
- (c) Clause 1.12(1)(c) **Replace . by , and**
- (d) Clause 1.12(1) **Add the following sub-clause after sub-clause (c):-**
- (d) **A Guide to the Factories and Industrial Undertakings (Safety Officers and Safety Supervisors) Regulations.**
- (e) Clause 1.24(1) **Replace trial holes by inspection pits**
3rd line
- (f) Clause 1.24 **Add the following sub-clauses after sub-clause (5):-**
- (6) **Further to Clause 1.24(1), the Contractor shall submit for the Engineer's agreement, at least 14 days before any excavation by mechanical plant, a proposal for investigations to ascertain the nature, location and size of existing utilities by hand-dug inspection pits. Such investigations with inspection pits shall not relieve the Contractor of any of the duties, responsibilities, obligations or liabilities imposed upon him by any of the provisions of the Contract.**
- (7) **Unless otherwise agreed by the Engineer in writing, the Contractor shall carry out investigations to locate utilities in accordance with the proposal referred to in Clause 1.24(6). The Contractor shall make his own enquiries with the utility undertakings as and when required and should any utility installations including cover tiles be exposed, the respective utility undertakings shall be contacted to determine if all their utilities have been located. All utility installations including cover tiles shall only be removed by the utility undertakings concerned.**
- (8) **Any excavation with mechanical plant shall not commence until the nature, location and size of utilities which may be affected by the excavation**

have been ascertained and the setting out details have been checked by the Engineer. The nature includes the type of utilities, protective UPVC/GI ducts or conduits, concrete surround, haunching and the like. The location includes the top/bottom levels, the coordinates of the centrelines of the utilities and the like.

(9) The Contractor shall provide adequate and experienced site personnel to control the operation of heavy mechanical plant in the proximity of utilities.

(10) The Contractor shall make arrangements to avoid any heavy mechanical plant or vehicles standing or passing over buried pipeworks in particular those at shallow depths with less than 1 metre overburden cover, especially when the road surface is removed. Unless agreed by the Engineer, the Contractor shall not stockpile any material immediately over or in the vicinity of any pipeworks.

(11) Pursuant to Clause 1.24(1), the Contractor shall carry out the Works in such a manner so as not to cause any damage or interference with any concrete blocks or structures attached to the utilities. The Contractor shall ensure that all cable draw pits, valve pits and the like are not covered up or removed as a result of his work and are accessible by utility undertakings at any time during the course of the Works for emergency repair.

(12) Further to Clause 1.24(2), where utility installations are exposed, the Contractor shall liaise with the utility undertakers about the necessary protection for the exposed utilities and provide temporary protective measures and warning signs to prevent damaging the utility installations.

(g) Appendix 1.1,
Section 1.1.1,
p.63

Replace the heading BS 1610 : 1985 by BS 1610 and add the followings on a new line:-

BS 1610 : Part 1 : 1992

Specification for the grading of the forces applied by materials testing machines when used in the compression mode

(h) Appendix 1.1,
Section 1.1.1,
p.67

Replace the existing standard:-

**BS 4449 : 1978(1984)
(excluding AMD 4337 and AMD 4540
and Clauses 12.2.1 and 12.2.2)**

Specification for hot rolled steel bars for the reinforcement of concrete

by the latest standard:-

**BS 4449 : 1988.
bars (The determination of fatigue properties in Clause 11 of BS 4449 : 1988 is not mandatory.)**

Specification for carbon steel for the reinforcement of concrete

(i) Appendix 1.1,
Section 1.1.5,
p.75

Delete CS1 : 1990 and replaced by CS1 : 1990 with AMD 1101 and AMD 1201

SECTION 5**DRAINAGE WORKS**

- (a) Clause 5.18(1),
2nd line & 3rd line

Delete and shall be Grade 43A steel complying with BS 4360

SECTION 7**GEOTECHNICAL WORKS**

- (a) Clause 7.42(4)(a),
2nd line

Replace 38 m by 38 mm

- (b) Clause 7.88(1),
3rd line

Add at the end of the 2nd sentencethe diameter of the rock bolt with or the outer diameter of the connectors, if used, whichever is larger

- (c) Clause 7.100,
5th line

Replace equivalent by in-situ

- (d) Clause 7.114(5),
2nd line

Replace 20°C by 23±1.7°C

VOLUME 2**SECTION 16****CONCRETE AND JOINTS IN CONCRETE**

- (a) Clause 16.65(2)
4th line

Replace equivalent by in-situ

VOLUME 3**SECTION 18****STEELWORK**

- (a) Clause 18.93

Add the following sub-clause after sub-clause (2)

(3) If the result of every additional test complies with the specified requirements for the test, only those parts the samples from which have failed in the original tests shall be considered as not complying with the specified requirements of the test.

SECTION 23**WATER SUPPLY PIPEWORKS**

- (a) Clause 23.14(1),
2nd line

Replace Steel pipes and specials by Steel pipes, joints and specials

- (b) Page 147,
Table 23.1
- Replace BS 534 : Clause 31.2 by BS 534 : Clause 27.2**
- Replace BS 534 : Clause 31.3 by BS 534 : Clause 27.3**
- Replace BS 534 : Clause 33.1 by BS 534 : Clause 29.1**
- Replace BS 534 : Clause 33.2 by BS 534 : Clause 29.2**
- Replace BS 534 : Clause 33.3 by BS 534 : Clause 29.3**
- Replace BS 534 : Clause 29.1 by BS 534 : Clause 25.1**
- Replace BS 534 : Clause 30.3 by BS 534 : Clause 26.3**
- Replace BS 534 : Clause 30.4 or Clause 30.5 by BS 534 : Clause 26.4 or Clause 26.5**
- (c) Clause 23.58(2)(a),
1st and 2nd line
- Replace BS 534 : Clause 29.1 by BS 534 : Clause 25.1**
- (d) Clause 23.66(3),
5th line
- Replace BS 534, Clause 33.5 by BS 534 : Clause 29.5**