

GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS

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VOLUME 1

SECTION 1

GENERAL

(a) Clause 1.36(1)

Replace unless otherwise **by** or other material as

SECTION 5

DRAINAGE WORKS

(a) Clause 5.21,
Marginal heading

Add the following to the marginal heading:

and granular fill

(b) Clause 5.21

Replace sub-clauses (1), (2) and (3) by the following:

(1) Granular bed shall be Type A material and granular fill shall be Type B material.

(2) Type A or Type B material shall consist of hard, clean, crushed slag, gravel, crushed rock, crushed concrete or crushed inert demolition material having a grading within the limits of Table 5.4. The ten percent fines values shall be at least 50 kN. The material passing the 425 μm BS test sieve shall be non-plastic when tested in accordance with BS 1377.

(3) Type A and Type B materials shall be obtained from a source approved by the Engineer.

(4) Aggregates for granular bed shall have the compacting fraction values stated in Clause 5.87.

(c) Table 5.4

Replace Table 5.4 by the following:

Table 5.4 : Range of grading of Type A and Type B materials

BS test sieve	Percentage by mass passing	
Metric	Type A	Type B
63 mm	-	100
37.5 mm	100	85 - 100
20 mm	-	0 - 20
10 mm	45 - 100	0 - 5
3.35 mm	25 - 80	-
600 µm	8 - 45	-
75 µm	0 - 10	-

(d) Clause 5.67

Add the following sub-clause:

(8) The aggregate for Grade 20 concrete stated in Clause 5.67(1) to (7) shall be natural stone, crushed rock or crushed concrete. Such Grade 20 concrete shall have the following minimum cementitious content:

<u>Exposure condition*</u>	<u>Minimum cementitious content (kg/m³)</u>
Moderate	280
Severe	330

[* Exposure condition shall be as stated in the Contract]

(e) Clause 5.86

Replace the clause by the following:

Each sample of aggregates for granular bed shall be tested to determine the particle size distribution and the ten percent fines value in accordance with BS 812:Part 103 and BS 812:Part 111, and the compaction fraction value in accordance with Appendix 5.2.

SECTION 6

EARTHWORKS

(a) Clause 6.04,
1st line

Replace is material of a soil or rock type **by** may consist of soil, rock, crushed concrete or crushed inert demolition material

(b) New Clause 6.06A

Add the following new clause after Clause 6.06:

Public fill 6.06A Public fill shall mean the inert material arising from construction and demolition activities such as site clearance, excavation, construction, refurbishment, renovation, demolition and roadworks. Public fill comprises material including stone, rock, masonry, brick, concrete, soil and other inert material. There is no size limitation on the public fill, and a small amount of timber mixed with otherwise suitable material is permissible. The public fill may also consist of wet soil.

(c) Clause 6.07(2),
1st line

Add , other than public fill **after** Fill material

- (d) Clause 6.07(6),
last sentence

Replace the last sentence by the following:

Crushed rock or crushed concrete may be permitted subject to approval by the Engineer.

- (e) Clause 6.07

Add the following sub-clause:

- (9) The use of public fill as fill material for earthwork may be permitted and the size limitation, transportation, stockpiling, deposit, spreading, compaction and any particular requirements of such material shall be as stated in the Contract.

- (f) Clause 6.43(4),
1st line,

Replace Fill **by** Unless otherwise stated in the Contract, fill

- (g) Clause 6.43(4),
2nd and 3rd line,

Add . They shall be **after** special fill material

VOLUME 3

SECTION 21

MARINE WORKS

- (a) Clause 21.11(1)

Replace the sub-clause by the following:

- (1) The different types of fill material for marine works shall either be Type 1, Type 2, rock or public fill as specified in the Contract and shall have the particle size distributions within the ranges stated in Table 6.1 and Table 21.1 unless otherwise stated in the Contract.

**Standards Unit
Civil Engineering Department
March 2001**