(a) Para. 1.4.2

Replace the first sentence of second paragraph with the following:

The Hong Kong Institute of Value Management (HKIVM) will update from time to time the Value Management Facilitators List on the HKIVM’s website (http://hkivm.org/facilitators/).

Replace “two Lists” with “Value Management Facilitators List on the HKIVM’s website” in the second paragraph.

(b) Appendix 1.4

Replace the first sentence of Item 23 with the following:

The Hong Kong Institute of Value Management (HKIVM) will update from time to time the Value Management Facilitators List on the HKIVM’s website (http://hkivm.org/facilitators/).

Replace “either Lists” with “the Value Management Facilitators List on the HKIVM’s website” in the second sentence of Item 23.

Add “for” after “particularly” and replace “Lists” with “Value Management Facilitators List” in last sentence of Item 23.

Add “yearly” after “Annex B” and replace “each month” with “every April” in Item 29 (iii).
CHAPTER 4  PROJECT DESIGN AND ESTIMATES

PARAGRAPH 4  GUIDELINES AND POLICIES RELATED TO DESIGN

(c) Para 4.6.5

Add the reference “(Subsumed from ETWB TCW No. 24/2003)” under the heading.

Replace the paragraph with the following:

The long-term strength and stress-strain characteristics of many reinforcing products (e.g. polymeric reinforcing products) suitable for use in permanent reinforced fill are temperature and time dependent. These products are required to be certified by CEDD before they are used in permanent reinforced fill structures and slopes in Government projects. Individual product certificates specify the products’ long-term design strengths and the conditions for use in Hong Kong. Metallic reinforcing products, the long-term strength and stress-strain characteristics of which are well established, do not require certification.

Notwithstanding certification, a structure or slope incorporating a certified reinforcing product will still need to be adequately designed by the designers, and checked by the GEO, CEDD.

Reinforcing products whose characteristics are temperature and time dependent require extensive and long-term testing well in advance of the normal design phase of a project. The certification system examines the effects of material variability, construction damage, environmental effects on material durability, and other special factors including hydrolysis, creep and stress rupture that are related to these reinforcing products. Reinforcing products that have been found satisfactory for use in permanent reinforced fill structures and slopes are certified by the CEDD. Requirements for compliance testing are also stipulated in the certificates. The list of certified reinforcing products and their details could be found at the CEDD Website.

The certification system ensures consistent and satisfactory standards in the provision of these products, facilitates their specification, and saves time for designers, contractors, manufacturers, suppliers and the Government by eliminating repetitive checking of project proposals.
When reinforcement types requiring certification are adopted in permanent reinforced fill design, the contract document should require the use of reinforcing products certified by the DCED. The model specification for reinforcing elements as recommended in Appendix A of Geoguide 6 can be used as a reference for the preparation of particular specification.

In the design, consideration should be given to ways of ensuring that the reinforcing products are not disrupted by future installation of drains or utilities. The department responsible for maintenance should be consulted at an early stage where the reinforced fill structure or slope is proposed. On completion of the works, the project department should also highlight in the slope maintenance manual any specific requirements to protect the reinforcing products, and alert the maintenance department of such requirements accordingly.

The project department shall make a submission on the proposed works to the GEO for checking in accordance with the requirements of ETWB TCW No. 29/2002. The submission should include drawings, design calculations, the specification for the reinforced fill, and a copy of the certificate of the reinforcing product (if applicable).

A submission may be made in two stages. In the first stage, external and internal stability shall be demonstrated and the reinforcing products could be specified generically. In the second stage, when the relevant reinforcing product details are known, another submission shall be made to demonstrate compliance with the design requirements. In the case of reinforcing products requiring certification, the submission should also include a copy of the certificate together with justifications that the design complies with the conditions stipulated in the certificate. Approval of the submission for both stages shall be obtained from the GEO before works on the reinforced fill commence.

**REFERENCES**

**(d)**

Delete the following reference:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETWB TCW No. 24/2003</td>
<td>Permanent Reinforced Fill</td>
</tr>
<tr>
<td></td>
<td>Structures and Slopes</td>
</tr>
</tbody>
</table>
CHAPTER 5  CONTRACT DOCUMENTS

PARAGRAPH 11  MISCELLANEOUS

(e) Para. 11.2  Add the following after the last paragraph:

Amendments to the standard NTT clause on regulating actions on inappropriate conducts is promulgated in SDEV’s memo ref. () in DEVB(W) 511/70/01 dated 9.4.2020.

PARAGRAPH 12  REFERENCES

(f)  Add the following reference:

SDEV’s memo ref. () in DEVB(W) 511/70/01 Amendments to Standard Notes to Tenderers dated 9.4.2020

Quality Management & Standards Unit
Civil Engineering and Development Department
28 May 2020