



Dragages - Nishimatsu Joint Venture



Hong Kong West  
Drainage Tunnel  
DC/2007/10

## Silt Curtain Proposal



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## **1 Introduction**

In accordance with the Further Environment Permit No. FEP-01/272/2007/A, a silt curtain is required to be installed around the Western Portal, before starting any marine works. The proposed silt curtain is only for the construction of the seawall (temporary pier). For the construction works of the stilling basin and armor rock at 2011, a separate silt curtain proposal will be submitted accordingly. This proposal includes the location and alignment of silt curtain, the proposed materials to be used, inspection frequency and rectification.

## **2 The details of the proposed Silt Curtain**

Our proposed silt curtain is approximate 260m long. The general layout plan of silt curtain is shown in the drawing HKWDT/DNJV/MD/2010/SI/026-E.

The silt curtain is composed of geotextile wrapped on and plastic buoy which chain together with PVC coating wire rope. Geotextile SG100/100 (detail specification please refers to attached catalog) will be stitched together forming in one piece of 260m long and from 3 to 19m high.

The plastic ball will be chained together by PVC coating wire and then wrapped up in the geotextile with double stitches. The steel chain or steel wire will act as weight in the other end of geotextile. Anchor blocks will also be lowered to the seabed, each anchor blocks will keep about 25m apart connect with a plastic buoy. The steel wire of anchor blocks will fix to the silt curtain, so that the curtain will be secured in position.

## **3 Water Quality Measures**

There are 2 sections of the silt curtain (measuring 40m each and illustrated in our drawing, ref. HKWDT/DNJV/MD/2010/SI/026) that could be opened to allow marine traffic entering or leaving the Site. The reason of providing two openings is that all vessels will leave the enclosed area through the section that is farthest away from the location of work. The opening of these sections is by means of tugboat and the silt curtain will be closed at all times during marine works within the enclosed area.

To further minimize the probability of murky water flowing out from the enclosed area, all marine works will be stopped prior to the opening of the silt curtain and, as far as reasonably practicable, the silt curtain will be opened inward. The entire operation will be stringently controlled by our site supervisors.

## **4 Inspection and rectification**

Visual inspection will be carried out in daily basis by DNJV's production team and environmental team. Rectification will be carried out by patched up method immediately



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if damage was found. Spare Geotextile will be stored on site for patching up in case of damages. During undertaking of rectification for damaged silt curtain, all the marine works will be suspended. Marine water monitoring locations and frequencies will be conducted as EM&A manual's requirement.