

**GUIDANCE DOCUMENT  
FOR THE PREPARATION OF  
SOIL EROSION AND SEDIMENT CONTROL PLAN (ESCP)**

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**1.0 INTRODUCTION TO THE GUIDANCE DOCUMENT**

**1.1 PURPOSE**

This Guidance Document has two main purposes:

- i) To assist the project proponents and EIA consultants in the preparation of Erosion and Sediment Control Plans (ESCPs); and
- ii) To standardize the format of ESCP, drawings, information required and procedures for ESCP submission.

**1.2 OBJECTIVE**

The overall objective of the Guidance Document is to ensure good quality ESCPs are prepared by competent professionals and the ESCPs are effectively implemented to minimize environmental and pollution impact of land or site preparation activities.

**1.3 SCOPE**

The Guidance Document specifies the requirements and procedure for ESCP preparation and submission for EIA projects.

**2.0 LEGAL FRAMEWORK**

All projects subject to EIA Order, 1987 which involve soil disturbing activities and site preparation are required to prepare an ESCP as part of the EIA approval conditions. ESCP will be an integral component of the environmental management plan (EMP) prepared by the project proponent/ consultant to be submitted and approved by the DOE. Non-compliance with the specifications stipulated in this Guidance Document will cause delay in the EMP processing.

### **3.0 REQUIREMENTS OF EROSION AND SEDIMENT CONTROL PLAN (ESCP)**

- i. The ESCP prepared for EIA projects must be designed based on the project concept, components and minimum mitigating measures approved in the EIA Conditions of Approval; and
- ii. The preparation of ESCP must be in accordance with the following Guidelines:
  - a) Department of Irrigation and Drainage – DID. 2010. Guideline for Erosion and Sediment Control in Malaysia.
  - b) Department of Irrigation and Drainage – DID. 2000. Urban Stormwater Management Manual for Malaysia.

#### Other useful references on the design of BMPs for soil erosion and sediment control

- a) CESSWI, LLC. 2008. Certified Erosion, Sediment and Storm Water Inspector Exam Review Study Guide. Marion, NC.
- b) CPESC, Inc. 2010. Certified Professional in Erosion and Sediment Control Exam Review Course Workbook. Marion, NC.
- c) Douglas County Department of Public Works. 2004. Grading, Erosion and Sediment Control (GESCC) Manual. Douglas County, CO.
- d) Fifield, J. S. 2004. Designing for Effective Sediment and Erosion Control on Construction Sites. Forester Press. Santa Barbara, CA.
- e) Fifield, J. S. 2004. Field Manual on ESC. Best Management Practices for Contractors and Inspectors. Forester Press. Santa Barbara, CA.

- f) Sacramento Stormwater Quality Partnership and the City of Roseville. 2007. Stormwater Quality Design Manual for the Sacramento and South Placer Regions. Sacramento County, CA.
- g) Virginia Department of Conservation and Recreation. 1992. Virginia Erosion and Sediment Control Handbook, 3<sup>rd</sup> Ed. Richmond, VA.
- h) Virginia Department of Conservation and Recreation. 1995. Virginia ESC Field Manual. Richmond, VA.

The ESCP shall contain a declaration by the ESCP preparer that the ESCP has been prepared and BMPs have been designed according to the applicable criteria/specifications/standards/codes of practice and best engineering practices in erosion and sediment control using the format as in Appendix I.

#### **4.0 WHO SHALL PREPARE ESCP**

ESCP shall be prepared and signed by a professional engineer who is also CPESC\*-certified.

(\* Note: CPESC stands for Certified Professional in Erosion and Sediment Control. As an interim measure, an equivalent certification may be accepted. The non-CPES certified professional must submit certified evidence to the DOE and obtain DOE's consent before undertaking any assignment on ESCP preparation).

#### **5.0 WHO SHALL BE RESPONSIBLE FOR ESCP IMPLEMENTATION**

ESCP shall contain a declaration by the owner or authorized person that he will undertake the responsibility to ensure the Erosion and Sediment Control Plan (ESCP) will be implemented and the Best

Management Practices (BMPs) stated in the ESCP will be installed, inspected and maintained using the format as in Appendix II.

## **6.0 VALIDITY OF ESCP**

ESCP shall be valid for two years as long as there is no change in the project concept and layout.

## **7.0 PROCEDURE FOR ESCP SUBMISSION**

The ESCP prepared by the professional engineer shall be submitted to the Department of Irrigation and Drainage (DID) for endorsement. Presubmittal discussion with the Department of Environment (DOE) prior to ESCP submission to the DID is highly recommended. Two copies of the ESCP which has been endorsed by the DID shall be submitted to the DOE within two weeks.

## **9.0 BMPs SELECTION**

Appropriate BMPs shall be selected with emphasis on preventive measures especially for erosion control, run off control and management and preservation of natural vegetation and buffers.

**DECLARATION BY ESCP PREPARER**

I certify that I have prepared the Erosion and Sediment Control Plan (ESCP) and designed the BMPs in compliance with the criteria/standards/code of practice stipulated in the relevant documents and best engineering practices in erosion and sediment control.

PROJECT TITLE

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PROJECT ADDRESS/LOCATION

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Name of ESCP preparer.....

Signature (.....) Date:.....,

Board of Engineers Malaysia (B.E.M.) Registration number : .....

CPESC Registration number:.....

**DECLARATION BY OWNER/AUTHORIZED PERSON**

I certify that I shall undertake the responsibility to ensure the Erosion and Sediment Control Plan (ESCP) will be implemented and the Best Management Practices (BMPs) stated in the ESCP will be installed, inspected and maintained according to the best engineering practices in soil erosion and sediment control.

PROJECT TITLE

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PROJECT ADDRESS/LOCATION

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Name of project proponent/authorized person

Signature:(..... )

Designation:.....,

Date:.....

Department of Environment (Headquarters)  
Putrajaya

December 28, 2010