CHAPTER 1 : INTRODUCTION

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1.0   Introduction

Environmental protection and conservation is gaining more significance in the long term national development plan. In this regards, Malaysia as a country, has reaffirmed its commitments towards the protection and conservation of its environment as stated in the **National Policy on Environment**, **National Physical Plan (NPP)** and Ninth Malaysia Plan.

In summary, the National Policy on Environment aims for continuous economic, social and cultural progress and enhancement of the quality of life of Malaysians, through **environmentally sound and sustainable development.**

The main goal of the NPP is to create an efficient, equitable and sustainable national framework that will guide future development of the country. It is an important piece of document as it provides the spatial element in development planning as well as spells out policies that determine the direction of physical development and conservation areas within Peninsular Malaysia. It also identifies areas that need to be conserved and protected via a ranking system. These areas are called **Environmentally Sensitive Areas (ESA)**. Such identification will greatly assist any project proponent (government or private sector) in evaluating and determining the feasibility of some projects at macro or national level.

In line with the nation's aspirations in protecting the environment, JKR has formulated and implemented the "**JKR Green Mission**" and has an **Accredited MS ISO 14001** since 5th November 2002. The main objective of the document is to protect and enhance the environment by ensuring that projects are being implemented in a sustainable manner and with the least impacts to the environment.

1.1   Objectives

This Revised Arahan Teknik shall aim to attain the following objectives:

- To ensure that the "JKR EMS ISO 14001" in terms of environmental protection is being properly translated in the preparation of the tender document and subsequently implemented during the construction stage

- To guide users on the requirements pertaining to environmental protection, mitigation and enhancement measures in the preparation of tender document

1.2   Method of Procurement

This document is applicable for both conventional and design and build contracts. A typical example of the process flow for both types of contracts can be referred to in the JKR's Quality Management System (QMS).

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1.3 Format of Document

This Revised Arahan Teknik (Jalan) 16/03 has been divided into eight chapters addressing the various components which forms part and parcel of the tender document preparation process.

In addition to the introductory material in this section, the document contains:

Chapter 2 **Environmental Requirements** – in which environmental requirements at various project development stages will be described. Relevant guidelines are also tabulated for reference purposes.

Chapter 3 **Contractual Requirements** – in which environmental requirements pertaining to different methods of procurement will be presented.

Chapter 4 **Specifications** –in which environmental protection works are elaborated to assist users in preparing tender document as well as ensuring compliance to the relevant legislations and regulations.

Chapter 5 **Method of Measurement (MOM)** – in which elaboration of methods of measurement for items stated in the BQ will be measured. It describes the items, unit and measurement for payment.

Chapter 6 **Bill of Quantities (BQ)** – in which environmental protection works will be itemized in terms of unit, quantity, rate and cost. It will cover both non-physical works and physical works.

Chapter 7 **Best Management Practices (BMP)** – in which samples of mitigating measures that have been implemented successfully at site are shown.

Chapter 8 **Standard Drawings and Figures**– in which preliminary drawings and figures of mitigating measures such as silt trap, sediment basins, check dams and slope protection measures are shown.

Appendix 1 **Government Requirements (Need Statement) (For Design and Build Projects Only)**

Appendix 2 **Standard Report Format for EMP, EQR, EMAR and CAR**