

6 WASTE MANAGEMENT

Waste Management Plan (WMP)

- 6.1 A Waste Management Plan (WMP) will be prepared by the Contractor as required by the Specification Vol.3 of the Contract No. EP/SP/40/02.
- 6.2 The WMP, which will be approved by the Engineer, will include, but not limited to the following items:
- a chart setting out the roles and responsibilities of the Contractor's personnel responsible for waste management and appropriate mitigation measures;
 - an analysis and schedule of when, what quantities and type of construction and demolition (C&D) materials are anticipated to be generated in the course of the execution of the Works;
 - proposals for avoidance / minimization of the generation of C&D materials;
 - a figure showing a specific area on site to facilitate sorting of C&D material;
 - a proposal for handling, recycling, re-use and return of the suitable C&D material;
 - identification of the chemical waste to be generated and proposed means of handling of chemical waste;
 - a proposal for minimizing, storage and disposal of general refuse;
 - a proposal specifying the disposal outlets and means of transportation of the C&D material;
 - a proposal of how the Contractor will maintain the Site in a clean and tidy condition;
 - a monitoring and auditing proposal to ensure that the requirements of the WMP are properly implemented;
- 6.3 The Contractor shall keep adequate and proper records (such as delivery docket, photographs and measurement records) relating to the implementation of the WMP and submit such records of each calendar month to the EPD within the first week of the following calendar month.
- 6.4 The Contractor shall be required to submit a report on the implementation of the WMP in a form to be agreed by EPD after the completion of the Contract. The report shall include the following information and any other information as the Employer may consider appropriate:
- a) The quantities of different types of C&D material as estimated at the commencement of the Contract;
 - b) A statistics on the monthly quantities of different types of C&D material generated and their disposal method; and
 - c) Reasons for any significant difference between the estimated quantities at (a) and the actual quantities at (b).
- 6.5 The Contractor will review the WMP at monthly intervals and submit a revised and updated WMP if necessary.

Waste Management Mitigation Measures

Construction Phase

Liquid Waste

- 6.6 The Contractor will not permit any sewage, waste water or effluent containing sand, cement, silt or any other suspended or dissolved material to flow from the site onto any adjoining land or sea or allow any waste matter or refuse to be deposited anywhere within the site or onto adjoining land and will have all such matter removed from the site.
- 6.7 The Contractor will be liable for any damages caused to adjoining land through his failure to comply with Section 6.6.
- 6.8 The Contractor will be responsible for temporary training, diverting or conducting of open streams or drains intercepted by any works and for reinstating these to their original courses on completion of the Works.
- 6.9 The Contractor will be responsible for adequately maintaining any existing site drainage system at all times including removal of solids in sand traps, manholes and stream beds.
- 6.10 Any proposed stream course and nullah temporary diversions will be submitted to the Engineer for agreement one month prior to such diversion works being commenced. Diversions will be constructed to allow the water flow to discharge without overflow, erosion or washout. The area through which the temporary diversion runs is to be reinstated to its original condition or as agreed by the Engineer after the permanent drainage system has been completed.
- 6.11 The Contractor will furnish, for the Engineer's information, particulars of the Contractor's arrangements for ensuring that material from any earthworks does not wash into the drainage system. If at any time such arrangements prove to be ineffective the Contractor will take such additional measures as the Engineer will deem necessary and will remove all silt which may have accumulated in the drainage system whether with the Site or not.

Solid Waste

- 6.12 The Contractor will segregate all inert construction waste material suitable for reclamation or land formation and will dispose of such material at such public dumping area(s) as may be specified from time to time by the Director of Civil Engineering Services.
- 6.13 Inert material deemed unsuitable for reclamation or land formation and all non-inert construction waste material deemed unsuitable for reclamation or land formation and all other waste material will be disposed of at a public landfill.
- 6.14 Chemical waste as defined by Schedule 1 of the Waste Regulations (Chemical 1992), will be stored in accordance with approved methods defined in the Regulations and the chemical waste disposed of at the Chemical Waste Treatment Facility located at Tsing Yi.

6.15 Any dredged material will be disposed of at an approved marine dumping ground.

Operational Phase

6.16 The Contractor will operate the Facility under the principle of minimising the volume of consumables or other materials that will be taken into areas where potential radioactive contamination exists, to minimise the generation of contaminated waste. Volumes of material entering the active areas are to be kept to a minimum, for instance by the removal of packaging from incoming waste, prior to transfer into the active areas and only allowing essential items into such areas.