

Regional Waste Management Scheme

The **Regional Waste Management Center** is expected to have an operational life of above 15 years after commencing operation. The regional approach to waste disposal to be shared between various ULBs is a new concept that is gradually gaining ground in the country given the constraints of land and other associated factors related to the setting up of smaller disposal facilities.

The landfill that is proposed is of semi-aerobic type which has a number of advantages in terms of leachate improvement, reduction of methane gas and rapid stabilization of waste. Leachate management may arise as an issue in the overall management of the landfill site, as experience shows that segregation of inorganic and organic wastes would not be total in the initial stages resulting in organic waste to be sent to the landfill. In addition, as rainfall during the monsoon months is very high in the area, it will provide further scope for generation of leachate. The project proposes the setting up of a leachate collection system which will drain the leachate into aerated lagoons for treatment before it is discharged outside, after meeting discharge standards for waste water. Together with the semi-aerobic system this treatment is easy to maintain, low cost and thereby sustainable.

The consultancy services of the PMC shall be provided in three basic phases for the RWMC; to prepare the basic designs, to supervise the construction and to monitor the operation for a period of at least 6 months. The Services shall be implemented in coordination with the officials of the newly formed institution.

Before progressing with the Basic Design, detailed soil investigations have been carried out to a total depth 200m (10BH x 20m/BH). A survey of the land area available for the RWMC was also verified through land area surveys. Based on the survey results, the Site layout plan was prepared and reflects the scales of the facility based on the disposal phasing plan evolved during implementation of Packages 1 and 2. The Basic Design for the landfill was prepared in adherence to the specifications provided in the MSW Rules and also incorporating best practices in landfill design from Japan. The layouts and drawings carry sufficient details so as to prepare the bills of quantities and the cost estimates.

Before the start of construction, the PMC would review and confirm the detailed design prepares by the Contractor, agree on construction schedule and supervise the progress of the work on a daily basis through Site Engineers and on a periodic basis by senior engineering professionals in the project team. The supervision would include a program for checking of materials quality that would be used by the Contractor.

