



CHAPTER 3

STATEMENT OF NEED



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Rapid economic development and population growth, inadequate infrastructure, and land scarcity make the management of municipal solid waste become one of Malaysia's most critical environmental issues. In general, the per capita generation rate is about 0.5-0.8 kg/person/day in which domestic waste is the primary source. Currently 150 tan/day of solid waste is generated from Pontian District. Wastes from Pontian District were disposed at the existing landfill which is located at Pekan Nenas since 1996. Now the lifespan of this landfill is become shorten, thus other alternative is needed to replace the existing landfilling and open dumping method to another waste management system that environmentally preferable by JPSPN.

The proposed project is in line with the JPSPN policy which one of their aims is to establish a solid waste management system that is holistic, integrated, cost effective, sustainable and acceptable to the community that emphasizes the conservation of the environment, selection of affordable technology and ensuring public health.

The development of transfer station allows for more efficient removal and transport of solid waste to the landfill. The location of transfer station near the main areas of waste arising maximises the efficiency of waste collection, while the bulk transfer of waste to the landfill sites minimises vehicle movements, thereby minimising operation costs and environmental impact of the transfer operation.

The transfer station is a key component of cost-effective solid waste transportation. By transferring waste from local collection vehicles onto larger trailers, the cost of transportation to Seelong Sanitary Landfill (65 km distance) can be significantly reduced, freeing collection-specific vehicles and crews to devote their time to actual collection activities. Here are some of the main benefits:

- a. Provides fuel savings, reduction in road wear and less air pollution due to fewer vehicles being on the road;
- b. Save the delivery time and able to increase the frequency of garbage collection;
- c. Drop Off point for recycling products (3R);
- d. Reduces total traffic congestion in the community by transferring it onto larger vehicles; and
- e. Reduces total truck traffic and improves safety at the landfill.

The proposed project development is also in line with the following plan:

- a. Planning by *Bahagian Perancang Ekonomi Negeri Johor* (Appendix 3.1: Letter of support);
- b. Rancangan Tempatan Daerah Pontian 2030 (Penggantian);
- c. Rancangan Struktur Negeri Johor 2030 (RSNJ 2030);
- d. 11th Malaysia Plan 2016 – 2020 (RMK 11); and
- e. National Physical Plan.