

C316761 : MAJOR SANITARY ENGINEERING

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This research is a study on current condition and problems on the management of solid wastes in Phetchaburi municipality. The research will be conducted by studying problems and alternative in solving these problems related to the collection of solid wastes, transportation including disposal of solid wastes as well as the ability of solid waste management. The aims of this research is formulating the policies on this matter

The research result show planning in the collection of solid wastes and covers the municipality areas both at present and in the future (1992-2011).

The details of the research are as follow;

- The 100- litres garbage container are provided to contained the amount of solid wastes about 50 % of waste in each day
- 30 new trucks for garbage are needed which consist of 8 trucks with 11.4 cubic metres contain to serve for the increasing amount of solid wastes
- 22 trucks to be replaced those with 10 year usage.

additionally, the study on the total collection was made through deviding into 8 areas. Some routes wear improved which result in some degree increase of the collection of solid wastes. As for the transfer of solid wastes, there is no need to build the transfer station. Also, it was found that the disposal of solid wastes by mean of sanitary landfill is more suitable than the open dump practice which is using currently. The solid wastes disposal sites, are pervious ones which are around 6 kilometres distance from the municipality areas. The municipality have to buy 124 rai additional land and has to prepare the area for sanitary landfill, setting the leachate treatment plant caused by solid wastes, for the streets, control of gas movement system, trees to be planted around the disposal site, measures in decreasing the environment impact including buying relevant machines such as bulldozers and truck ect.

Therefore, Phetchaburi municipality should prepare buget for investment of solid waste management about 48 million baht.