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SOMCHAI PANITYOTAI : APPROPRIATE TRANSPORTATION MANAGEMENT SYSTEM FOR CHONBURI MUNICIPALITY WASTE. THESIS ADVISORS : SOMPONG THONGCHAI, M.SC., KASEM KULPRADIT, M.SC., VIMUT PRASERTPUNT, M.SC., WALLOP CHANTRAKUL, M.SC., PIJAK HINJIRANAN, M.SC., CHUMPORN YUWAREE, MS.C. 190 P. ISBN 974-662-356-7

The objective of this research is the comparison of 3 routes to determine which is the appropriate management system for solid waste transportation from Chonburi municipal area to the disposal site at Nonghiang subdistrict in Panasnikom ddistrict, Chonburi. The first and the second routes are direct transportation by collection vehicles for distances of 37 kilometers and 56 kilometers, respectively, whereas the third route is transportation by collection vehicle for 11 km from the Chonburi municipal area to the Transfer Station at Nongree subdistrict, Muang Chonburi district, Chonburi, followed by transportation by semi-trailer for 66 km to the disposal site

The result of the comparison of the solid waste transportation systems showed that transportation by semi-trailer having 41.25 cubic meters capacity is more appropriate than either direct transportation method. The present value of the cost of the project over its 12 years of operation from 1999 to 2010 is estimated to be 47,980,873 baht using the first route, 55,494,878 baht using the second route or 38,841,083 baht using the third route, or 176.40 baht/ton, 204.03 baht/ton, or 153.97 baht/ton, respectively. The price difference is mainly due to the truck body volume capacities