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THONGCHAI BITRAKUL : THE STUDY OF EFFICIENCY OF
COLLECTION SYSTEM OF PUBLIC CLEANSING AND PARK SUB-DIVISION, LAKSI
DISTRICT OFFICE. THESIS ADVISORS : SUDHIN YOOSOOK, B.Sc.(HONOURABLE)
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This study was carried out to assess the efficiency of the solid waste collection system of the Public Cleansing and Park Sub-Division, Laksi District Office. The present operation of the solid waste collection system with respect to efficiency and economy was evaluated in order to improve collection methods and revenue in the future. Data was collected and analyzed on daily solid waste collection from 3 types of collection vehicles: 5 ton compactor vehicles, 2 ton compactor vehicles, and 8 cubic-meter containers.

Collection efficiency analysis showed that all collection vehicles could collect solid waste at a rate of 1.4 rounds/vehicle/day; quantity of collected waste was 4.64 tons/vehicle/day. These rates did not meet the standards of the Department of Public Cleansing, Bangkok Metropolitan Administration.

Analysis of collection costs showed that the total expenditure for solid waste collection was 303 baht/ton. The expenditure for vehicles alone, excluding other costs, was 222 baht/ton. Wages and gasoline were the major operating costs accounting for overall expenditure.

The results of estimation for expenditure and revenue in the next 20 years (1998-2017) indicated that in order to balance expenditures and revenues in the 20th year by means of increasing the revenue every 5th year, (5th, 10th, 15th and 20th), an increase of revenue by 98 percent every 5th year should be considered.