ABSTRACT

SAMADJI. *Optimality observation of Solid waste Transportation Cost Through The Linear Programming in Sukabumi Regency* (under guided by Dedi Taufik).

Solid waste transportation problems are one of the strategic component which is influence to the environment polluted prohibition level and the feasibility of the business opportunity development in solid waste management, among others such as privatization possibility in solid waste, especially of the transportation cost optimality, where entirely aimed for more efficient and affectivity in its management.

Regarding with the solid waste transportation in Sukabumi regency are still manage under a local government structural institution, it's appear some queries, is it possible if the institution to be a local enterprise or shifted to private part in form of the joint institution which will give win-win situation ?, beside that, whether the transport operational cost was optimum?.

That the reason why this investigation are purpose to do a simply observation of on going solid waste transportation system so far by using linear programming transportation model with the aim to get optimality level of its transportation cost and privatization possibility of its institutional management.

Based on the investigation result, in fact that the solid waste transportation cost in Sukabumi regency area (Rp.17.541,-/m^3/daywork) has optimum already appropriate with their existing characteristic (be compare with Bandung municipality which only Rp.2.042,-/m^3/hari), with the result that, beside the other characteristic indication, this indicates that solid waste management in Sukabumi regency are still not possible yet to be shifted to the private company or manage by a local enterprise, due to the needs of social services are still dominant.

Therefore, some more detail study concerning of solid waste potentially and its characteristic appearance, preferable alternative route, and selection of the vehicle type are still needed.