**Production calculation in non-hazardous waste recycling facility**

***Zehra Gülten YALÇIN\*1, Mustafa DAĞ2, Ercan AYDOĞMUŞ3***

*1,2 Fen Bilimleri Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Karatekin Üniversitesi, Çankırı, Türkiye*

*3 Fen Bilimleri Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Fırat Üniversitesi, Elazığ, Türkiye*

**Abstract**

In this study, packaging waste collection, separation and pressing work is carried out in a business located in Çankırı. Packaging wastes from various productions are first weighed from the scale and discharged into the collection area. Here, the same size is passed through the appropriate number of separation belts. Packaging wastes from the separation belt are collected in prepared boxes. After the collection separation, it goes to the pressing belt. After the pressing process, the packaging waste is sent to the temporary storage area and the recycling facility. It is offered for sale to companies that are in special demand. Packaging waste, which is defined as non-hazardous waste, is used in the facility. Wooden packaging, metallic packaging, composite packaging, glass packaging, textile packaging wastes are also evaluated in the facility. Since heat treatment is not used in the facility, there is no harmful transfer that will cause air emissions. Despite the fact that domestic wastewater is generated at the facility, it is exempted from "wastewater discharge". The annual production amount, press calculation and necessities of the facility were calculated.

Keywords: Packaging waste, Production capacity, Waste collection, Waste separation