## ABSTRACT

*Bandung Techno Park, Telkom University has an incinerator product in response to domestic waste. From the results of observations and interviews that arise problems from the results of the incinerator itself and the emissions result where the product produces emissions of* $800{,}2\ mg/Nm^3$ *and the score of eco indicator result is 66016.8 on the product life cycle.*

*This research study is intended to provide and to determine which designs produce lower emissions and below government emission standards. With Life Cycle Assessment method to assesss the product emission produce during the life cycle of the product and Material Selection to determine the material requirement.*

*The result of this research study are a product that produces lower emissions from the existing product where the product produce* $488{,}122\ mg/Nm^3$ *emission better than the existing and the score eco indicator is 4401.12.*



*Keyword: Design For Environment, Life Cycle Assessment, Emission, Sustainability, Insinerator.*