STUDY ON CLEANER PRODUCTION STRATEGY IN GARUT LEATHER TANNINGS INDUSTRIAL ESTATE

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ABSTRACT

Leathers is one of livestock products that being expensive commodity today. Positively, leather tanning industry gives benefit to the peoples around industry, however, improper handling of wastes may pollutes the environment around tanning industrial estate. Cleaner production strategy is needed to minimize the wastes. This research was directed to identify the opportunity implementation of cleaner production strategy on leathers tanning industry at Sukagerang, Garut and to determine the possible alternatives of cleaner production options to increase production efficiency while minimizing the wastes. Analysis of Cleaner production conducted in three industries, PT ELCO Indonesia, PT Karya Lestari Mandiri, and PD Putra Setra. Quick Scan method used to analyzed the cleaner production. The results were then analyzed by using Exponential Method Comparison (MPE) and method of Analytical Hierarchy Process (AHP) to determine the priority of cleaner production application. Priority selection of cleaner production alternatives in leather tanning industry estate was analyzed based on the environmental criteria, benefits, construction, operation, and cost. The best alternative priority to be applied in leather tanning was controlling of water use then followed by trimming process before chemical treatment, breeders assisting, retribution for waste treatment, and the socialization of research results. In the case study of water use at PD Putra Setra, 87,800 Liters water can be reduce. While in the case study of trimming process at PT ELCO Indonesia, this alternative may result in the benefit to the company in the form of savings for the purchase of chemicals of 16.82% or equivalent to Rp 197,103.

Keywords: cleaner production, industrial estate, leather tanning, AHP