IX.1. Conclusion

Ethyl acetate is used primarily as a solvent for various resins in protective coatings; also used extensively in formulating printing inks and adhesives; new applications include its uses as a process solvent in the pharmaceutical industry and as an extraction solvent in food processing; as a substitute for methyl ethyl ketone (MEK) in many applications [Kirk-Othmer, 1978]. In Indonesia the only company that produces ethyl acetate is PT. Sarasa Nugraha, Tbk. Therefore the new plant is planned to be build in Driyorejo Industrial Estate, Gresik, East Java.

Total capital investment for this plant is Rp. 57,926,517,000,- This plant design is reasonable to be built because economic analysis using both linear method and discounted cash flow method show that the plant design is economically feasible.

IX.2. Recommendation

Based on the statistics data, the market for locally-produced ethyl acetate is still vast in Indonesia, and in this environmentally-conscious era, the need for companies that care for environment is increasing. Hence, producing ethyl acetate through Fischer esterification and optimizing recycle is the best way to achieve both economies-of-scale and environment protection. By this way, it is expected that the plant will have sustainable life span.
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