

BAB X

KESIMPULAN

IX.1. Kesimpulan

Dari uraian yang telah disajikan pada bab I yang terdahulu, maka dapat ditarik kesimpulan sebagai berikut:

- Kapasitas : 14.669,469 ton/tahun
- Produk : Kantongan plastik biodegradabel
- Bahan baku : Pati granular (pati singkong 85%, air 5%, dan gliserol 15%) 50 %, dan biji LDPE 50 %
- Utilitas : Air 30°C, udara
- Kebutuhan air sanitasi : 8,43 m³/hari
- Kebutuhan listrik : 476,6 kW/hari
- Bahan bakar : Solar (11.700 L/tahun)
- Lokasi : Sukoharjo, Jawa Tengah
- Jumlah tenaga kerja : 90 orang

Hasil analisa ekonomi berdasarkan metode *discounted cash flow*:

- Modal tetap (FCI) : Rp. 10.287.452.471,-
- Total investasi (TCI) : Rp. 12.102.885.260,-
- Modal kerja (WCI) : Rp. 1.815.432.789,-
- Biaya Produksi (TPC) : Rp. 90.005.030.968,-
- Laju pengembalian modal sebelum pajak : 29,91%
- Laju pengembalian modal sebelum pajak : 27,56%
- Waktu pengembalian modal sebelum pajak : 2 tahun 7 bulan

Waktu pengembalian modal setelah pajak : 3 tahun 4 bulan

Titik impas (BEP) : 40,13%

Secara keseluruhan dari uraian di atas, baik dari segi teknis maupun ekonomis, Prarencana Pabrik Kantongan Plastik Biodegradabel sudah layak, dan dapat diteruskan ke tahap perencanaan.

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