

BAB XI

KESIMPULAN DAN SARAN

11.1 Kesimpulan

Berdasarkan uraian dan hasil perhitungan dari bab-bab sebelumnya pada prarancangan pabrik Biodiesel dari PFAD (*Palm Fatty Acid Distillate*), dapat disimpulkan sebagai berikut:

1. Pra rancangan *Biodiesel* dari PFAD (*Palm Fatty Acid Distillate*) dengan kapasitas 500.000 ton/tahun direncanakan untuk memenuhi kebutuhan dalam dan luar negeri.
2. Dari analisis teknis dan ekonomi yang dilakukan, pabrik *Biodiesel* dari PFAD (*Palm Fatty Acid Distillate*) dengan kapasitas 500.000 ton/tahun layak didirikan di Kawasan Industri Dumai, Riau.
3. Berdasarkan perhitungan analisis ekonomi, pabrik *Biodiesel* dari PFAD (*Palm Fatty Acid Distillate*) ini layak didirikan dengan rincian sebagai berikut:
 - a. *Fixed Capital Investment (FCI)*: US\$ 51.188.854
 - b. *Working Capital Investment (WCI)*: US\$ 9.033.327
 - c. *Total Capital Investment (TCI)*: US\$ 60.222.181
 - d. *Total Sales (TS)*: US\$ 605.829.014
 - e. *Total Production Cost (TPC)*: US\$ 557.847.348
 - f. *Rate of Return (ROR)*: 63,74%
 - g. *Pay of Time (POT)*: 2,5 tahun
 - h. *Break Even Point (BEP)*: 57,3%

11.2 Saran

Berdasarkan hasil analisis ekonomi yang telah dilakukan, pabrik *Biodiesel* dari PFAD (*Palm Fatty Acid Distillate*) dinyatakan layak untuk dilanjutkan ke tahap perancangan. Oleh karena itu, disarankan kepada pengurus dan pemilik modal untuk mempertimbangkan serta mengkaji ulang rencana pendirian pabrik *Biodiesel* dari PFAD (*Palm Fatty Acid Distillate*).

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