

BAB XI

KESIMPULAN

11.1 Kesimpulan

Berdasarkan uraian dan hasil perhitungan dari bab–bab sebelumnya pada prarancangan pabrik Propilen glikol dengan kapasitas 100.000 ton/tahun dapat disimpulkan sebagai berikut :

1. Pra rancangan pabrik Propilen glikol dari Gliserol dengan kapasitas 100.000 ton/tahun direncanakan untuk memenuhi kebutuhan dalam negeri .
2. Dari analisis teknis dan ekonomi yang dilakukan, maka pabrik Propilen glikol dari Gliserol dengan kapasitas 100.000 ton/tahun layak didirikan di Kawasan JIPE Gresik, Jawa Timur.
3. Pra rancangan Propilen glikol dari Gliserol merupakan perusahaan berbentuk Perseroan Terbatas (PT) dengan struktur organisasi *line and staff* dengan jumlah tenaga kerja 176 orang yang terdiri dari 131 karyawan shift dan 45 orang karyawan non shift.
4. Dari perhitungan analisa ekonomi, maka Prarancangan pabrik Propilen glikol dari Gliserol ini layak didirikan dengan :
 - *Fixed Capital Investment (FCI)* = US\$ 85.333.280
= Rp 1.307.608.779.920
 - *Working Capital Investment (WCI)* =US\$ 15.058.814
=Rp 230.754.490.574
 - *Total Capital Investment (TCI)* = US\$ 100.392.094
= Rp 1.538.363.270.494,50
 - *Total Production Cost (TPC)* = US\$ 455.103.211
= Rp 6.973.796.810.741
 - *Total Sales (TS)* = US\$ 539.177.785,34
=Rp 7.572.751.995.156
 - *Rate of Return (ROR)* = 73,28%.
 - *Pay Out Time (POT)* = 1,94 tahun
 - *Break Event Point (BEP)* = 49,70%.

11.2 Saran

Berdasarkan pertimbangan dari analisa ekonomi yang telah dilakukan Pabrik Propilen glikol dari gliserol dan Hidrogen ini layak untuk dilanjutkan ke tahap rancangan pabrik. Untuk itu disarankan kepada pengurus dan pemilik modal untuk dapat mempertimbangkan dan mengkaji ulang tentang rancangan pabrik Propilen glikol ini.

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