

## BAB XI. KESIMPULAN DAN SARAN

### 11.1 Kesimpulan

Berdasarkan uraian dan hasil perhitungan dari bab – bab sebelumnya pada pra rancangan pabrik metanol dari gas alam dapat disimpulkan sebagai berikut :

1. Pra Rancangan Pabrik *Dimethyl Ether* dengan Kapasitas Produksi 50.000 ton/tahun direncanakan untuk memenuhi kebutuhan dalam negeri.
2. Dari analisa teknis dan ekonomi yang dilakukan, maka Pabrik *Dimethyl Ether* dari *Methanol* dengan Kapasitas Produksi 50.000 ton/tahun layak didirikan di Kota Bontang, Kalimantan Timur.
3. Pra Rancangan Pabrik *Dimethyl Ether* dari *Methanol* dengan Kapasitas Produksi 50.000 merupakan perusahaan berbentuk Perseroan Terbatas (PT) dengan struktur organisasi *line and staf* dengan jumlah tenaga kerja 123 orang yang terdiri dari 97 karyawan *shift* dan 26 orang karyawan *non shift*.
4. Dari perhitungan analisa ekonomi, maka Pabrik *Dimethyl Ether* dari *Methanol* dengan Kapasitas Produksi 50.000 ini layak didirikan dengan :

) <i>Fixed Capital Investment (FCI)</i>	= US\$ 84.656.576,73
	= Rp 1.235.177.550.000,75
) <i>Working Capital Investment (WCI)</i>	= US\$ 14.939.395,89
	= Rp 217.972.508.823,66
) <i>Total Capital Investment (TCI)</i>	= US\$ 99.595.972,63
	= Rp 1.453.150.058.824,42
) <i>Total Sales (TS)</i>	= US\$ 82.928.799,04
	= Rp 1.209.968.495.934,96
) <i>Rate of Return (ROR)</i>	= 33 %.
) <i>Pay of Time (POT)</i>	= 2 tahun 6 bulan 29 hari
) <i>Break Event Point (BEP)</i>	= 22%

## **11.2 Saran**

Berdasarkan pertimbangan dari analisa ekonomi yang telah dilakukan Pabrik Dimethyl ether dari Methanol ini layak untuk dilanjutkan ke tahap rancangan. Untuk itu disarankan kepada pengurus dan pemilik modal untuk dapat mempertimbangkan dan mengkaji ulang tentang pendirian Pabrik Dimethyl Ether dari Mehtanol.

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