BAB XI
KESIMPULAN

Berdasarkan hasil dari perhitungan dan analisis dalam pra rancangan pabrik *Fatty Alcohol***,** dapat diperoleh kesimpulan sebagai berikut:

1. Gambaran Umum Pabrik

✓ Pra rancangan pabrik *Fatty Alcohol* dengan kapasitas produksi 150.000 ton/tahun direncanakan untuk memenuhi kebutuhan dalam negeri serta pasar global yang terus meningkat.

✓ Pabrik ini akan didirikan di Kabil Raya, Kota Batam, Kepulauan Riau, dengan pertimbangan strategis terkait ketersediaan bahan baku, akses transportasi, serta kemudahan distribusi.

2. Aspek Perusahaan dan Tenaga Kerja

✓ Pabrik ini dirancang dalam bentuk Perseroan Terbatas (PT) dengan struktur organisasi *line and staff* untuk memastikan efisiensi operasional.

✓ Total tenaga kerja yang dibutuhkan adalah 182 orang, mencakup berbagai bidang operasional, teknis, dan manajerial.

3. Analisis Ekonomi dan Kelayakan Pabrik

✓ Hasil analisis ekonomi menunjukkan bahwa pabrik ini layak untuk didirikan dengan parameter finansial sebagai berikut:

● *Fixed Capital Investment* (FCI) = US$ 30.092.036 (~Rp 492,16 miliar)

● *Working Capital Investment* (WCI) = US$ 5.310.359 (~Rp 86,85 miliar)

●*Total Capital Investment* (TCI) = US$ 35.402.396 (~Rp 579,02 miliar)

●Total *Sales* (TS) = US$ 298.232.509,62 (~Rp 4,88 triliun)

● *Rate of Return* (ROR) = 49,35%, menunjukkan keuntungan yang tinggi dibanding investasi awal.

● *Payback Period (*POT) = 1,7 tahun, yang berarti modal investasi dapat kembali dalam waktu yang relatif cepat.

● *Break-Even Point* (BEP) = 46,26%, menunjukkan titik impas yang realistis dan mengindikasikan stabilitas usaha.

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