

ABSTRAK

PRARANCANGAN PABRIK MELAMIN DARI UREA KAPASITAS 38.000 TON/TAHUN

Oleh
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Pabrik Melamin berbahan urea ini akan didirikan di Tanjung siapi-api, Palembang, Sumatera Selatan. Pabrik ini berdiri dengan mempertimbangkan ketersediaan bahan baku, sarana transportasi yang memadai, tenaga kerja yang mudah didapatkan dan kondisi lingkungan. Pabrik direncanakan memproduksi melamin sebanyak 38.000 ton/tahun dengan waktu operasi 24 jam/hari dan 330 hari/tahun. Bahan baku yang digunakan adalah urea sebanyak 14.417,16 kg/jam. Penyediaan kebutuhan utilitas pabrik melamin berupa pengadaan air, pengadaan steam, pengadaan listrik, kebutuhan bahan bakar, dan pengendalian udara kering.

Bentuk perusahaan adalah Perseroan Terbatas (PT) menggunakan struktur organisasi *line* dan *staff* dengan jumlah karyawan sebanyak 152 orang yang dikepalai oleh Direktur Utama yang dibantu oleh Direktur Produksi juga Direktur Keuangan.

Dari analisa ekonomi diperoleh :

<i>Fixed Capital Investment</i>	(FCI)	= Rp 381.395.946.976
<i>Working Capital Investment</i>	(WCI)	= Rp 71.742.942.729
<i>Total Capital Investment</i>	(TCI)	= Rp 453.139.889.705
<i>Break Even Point</i>	(BEP)	= 34,33 %
<i>Shut Down Point</i>	(SDP)	= 25,16 %
<i>Pay Out Time before taxes</i>	(POT) _b	= 2,11 tahun
<i>Pay Out Time after taxes</i>	(POT) _a	= 2,51 tahun
<i>Return on Investment before taxes</i>	(ROI) _b	= 31,41 %
<i>Return on Investment after taxes</i>	(ROI) _a	= 25,13 %
<i>Discounted cash flow</i>	(DCF)	= 29,92 %

Dengan pertimbangan di atas, sudah selayaknya untuk dikaji lebih lanjut mengenai pendirian pabrik melamin. Hal ini karena pabrik memiliki tingkat keuntungan yang baik dan memiliki prospek yang menjanjikan.

ABSTRACT
**PREDESIGN OF MELAMINE FROM UREA WITH CAPACITY OF 38.000
TONS/YEAR**

By
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Melamine Plant uses urea as its raw material, this plant will be build in industrial region of Tanjung siapi-api in Palembang, South Sumatera. Plant will be established by considering the availability of raw materials, transportation facilities, readily available labours and environmental conditions. Plant's production capacity which planned was 38.000 tons/year, with operating time of 24 hours/day and 330 working days in a year. The raw material which used is potassium chloride with amount of 14.417,16 kg/hour. The supplies of melamine plant's utility such are : water treatment system, steam supply system, electricity supply system, power generation system, fuel supply system and air supply system.

The type of business entity is Limited Liability Company (PT) which using Line and staff as organization system with 152 workers headed by a Chief Executive Officer who assisted by the Director of Production also Director of Finance.

From the economic analysis, which can be obtained are :

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By considering the summaries above, it is better to take the proper study from establishment of melamine plant, it is because the plant has good profitability and good projects.