ABSTRACT

MANUFACTURE OF METHYL SALICYLATE FROM SALICYLATE ACID AND METHANOL
CAPACITY OF 12,000 TONS / YEAR

By

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Factory which is made by raw material salicylic acid and methanol, will be erected on Bontang, East Kalimantan. The factory was established by considering the availability of raw materials, marketing area, transportation facilities, readily available labor and environmental conditions.

The factory is planned to produce methyl salicylate of 12,000 tons / year, with operating time of 24 hours / day, 330 days / year. The raw materials used are much salicylic acid 1539.278 kg/hr and methanol as much as 2849.761 kg/hr.

Provision of utility plant needs methyl salicylate the provision of water, provision of steam, electricity supply, fuel requirements, and procurement of air cooling water.

The form is a Limited Liability company (PT) using a line and staff organizational structure and employs as many as 125 people.

From the economic analysis is obtained:

- Fixed Capital Investment (FCI) = Rp 387,595,173,056
- Working Capital Investment (WCI) = Rp 91,198,864,248
- Total Capital Investment (TCI) = Rp 455,994,321,242
- Break Even Point (BEP) = 55.27 %
- Pay Out Time before taxes (POTb) = 2.11 tahun
- Pay Out Time after taxes (POTa) = 2.51 tahun
- Return on Investment before taxes (ROIb) = 31.72 %
- Return on Investment after taxes (ROIa) = 25.37 %
- Discounted cash flow (DCF) = 29.96 %

Considering the above explanation, it is proper plant establishment methyl salicylate was studied further, because it is a profitable factory and have a good future.