DAFTAR ISI

LEMBAR PENGESAHAN PENGUJI.....**Error! Bookmark not defined.**

LEMBAR MOTTO .....**Error! Bookmark not defined.**

KATA PENGANTAR.....**Error! Bookmark not defined.**

DAFTAR ISI..... 1

DAFTAR TABEL 4

DAFTAR GAMBAR..... 6

ABSTRAK.....**Error! Bookmark not defined.**

ABSTRACT.....**Error! Bookmark not defined.**

BAB I PENDAHULUAN.....**Error! Bookmark not defined.**

1.1 LATAR BELAKANG .....**Error! Bookmark not defined.**

1.1.1 Penentuan Kapasitas Produksi.....**Error! Bookmark not defined.**

1.2 TINJAUAN PUSTAKA.....**Error! Bookmark not defined.**

1.2.1 Macam-macam Proses.....**Error! Bookmark not defined.**

1.2.2 Seleksi Proses.....**Error! Bookmark not defined.**

1.2.3 Sifat Reaktan dan Kegunaan .....**Error! Bookmark not defined.**

1.2.4 Sifat Produk dan Kegunaan.....**Error! Bookmark not defined.**

1.2.5 Tinjauan Termodinamika .....**Error! Bookmark not defined.**

1.2.6 Tinjauan Kinetika.....**Error! Bookmark not defined.**

BAB II PERANCANGAN PRODUK.....**Error! Bookmark not defined.**

2.1 SPESIFIKASI BAHAN.....**Error! Bookmark not defined.**

2.2 SPESIFIKASI PRODUK.....**Error! Bookmark not defined.**

2.3.PENGENDALIAN KUALITAS.....**Error! Bookmark not defined.**

BAB III PERANCANGAN PROSES .....**Error! Bookmark not defined.**

3.1 URAIAN PROSES.....**Error! Bookmark not defined.**

3.2 SPESIFIKASI ALAT .....**Error! Bookmark not defined.**

3.2.1 Tangki-01 (TP-01) .....**Error! Bookmark not defined.**

3.2.2 Tangki-02 (TP-02) .....**Error! Bookmark not defined.**

3.2.3 Tangki-03 (TP-03) .....**Error! Bookmark not defined.**

3.2.4 Tangki-04 (TP-04) ..... **Error! Bookmark not defined.**
3.2.5 Tangki-05 (TP-05) ..... **Error! Bookmark not defined.**
3.2.6 *Expansion Valve* (EV-01) ..... **Error! Bookmark not defined.**
3.2.7 *Expansion Valve* (EV-02)..... **Error! Bookmark not defined.**
3.2.8 Vaporizer (VP-01) ..... **Error! Bookmark not defined.**
3.2.9 Vaporizer (VP-02) ..... **Error! Bookmark not defined.**
3.2.10 Kompresor (C-01) ..... **Error! Bookmark not defined.**
3.2.11 Reaktor (R-01) ..... **Error! Bookmark not defined.**
3.2.12 Kondensor Parsial (CD-01) ..... **Error! Bookmark not defined.**
3.2.13 Kondensor Parsial (CD-02) ..... **Error! Bookmark not defined.**
3.2.14 Separator (SP-01) ..... **Error! Bookmark not defined.**
3.2.15 Separator (SP-02) ..... **Error! Bookmark not defined.**
3.2.16 Pompa (P-101) ..... **Error! Bookmark not defined.**
3.2.17 Pompa (P-102) ..... **Error! Bookmark not defined.**
3.2.18 Pompa (P-103) ..... **Error! Bookmark not defined.**
3.2.19 Pompa (P-104) ..... **Error! Bookmark not defined.**
3.2.20 Pompa (P-105) ..... **Error! Bookmark not defined.**
3.2.21 Pompa (P-106) ..... **Error! Bookmark not defined.**
3.3 PERENCANAAN PRODUKSI..... **Error! Bookmark not defined.**
3.3.1 Analisis Kebutuhan Bahan Baku..... **Error! Bookmark not defined.**
3.2.3 Analisis Kebutuhan Peralatan Proses..... **Error! Bookmark not defined.**
BAB IV PERANCANGAN PABRIK..... **Error! Bookmark not defined.**
4.1 LOKASI PABRIK ..... **Error! Bookmark not defined.**
4.1.1 Faktor Penentu Lokasi Pabrik..... **Error! Bookmark not defined.**
4.2 TATA LETAK PABRIK ..... **Error! Bookmark not defined.**
4.3 TATA LETAK ALAT PROSES ..... **Error! Bookmark not defined.**
4.4 ALIR PROSES DAN MATERIAL..... **Error! Bookmark not defined.**
4.4.1 Neraca Massa..... **Error! Bookmark not defined.**
4.4.2 Neraca Panas..... **Error! Bookmark not defined.**
4.5 UTILITAS..... **Error! Bookmark not defined.**
4.4.1 Unit Pengadaan Air ..... **Error! Bookmark not defined.**

4.4.2 Unit Pengolahan Air ..... **Error! Bookmark not defined.**
4.6 LABORATORIUM ..... **Error! Bookmark not defined.**
4.6.1 Program Kerja Laboratorium ..... **Error! Bookmark not defined.**
4.6.2 Prosedur Analisa Produk ..... **Error! Bookmark not defined.**
4.6.3 Unit Pengolahan Limbah ..... **Error! Bookmark not defined.**
4.7 ORGANISASI PERUSAHAAN ..... **Error! Bookmark not defined.**
4.7.1 Bentuk Organisasi ..... **Error! Bookmark not defined.**
4.7.2 Sturktur Organisasi ..... **Error! Bookmark not defined.**
4.7.3 Tugas dan Wewenang ..... **Error! Bookmark not defined.**
4.7.4 Catatan ..... **Error! Bookmark not defined.**
4.8 Evaluasi Ekonomi ..... **Error! Bookmark not defined.**
4.8.1 Penaksiran Harga Alat ..... **Error! Bookmark not defined.**
4.8.2 Dasar Perhitungan ..... **Error! Bookmark not defined.**
4.8.3 Perhitungan Biaya ..... **Error! Bookmark not defined.**
4.8.4 Analisis Kelayakan ..... **Error! Bookmark not defined.**
4.8.5 Hasil Perhitungan ..... **Error! Bookmark not defined.**
4.8.6 Analisis Keuntungan ..... **Error! Bookmark not defined.**
4.8.7 Hasil Kelayakan Ekonomi ..... **Error! Bookmark not defined.**
BAB V PENUTUP ..... **Error! Bookmark not defined.**
5.1 Kesimpulan ..... **Error! Bookmark not defined.**
5.2 Saran ..... **Error! Bookmark not defined.**
DAFTAR PUSTAKA ..... **Error! Bookmark not defined.**
LAMPIRAN A REAKTOR ..... **Error! Bookmark not defined.**
LAMPIRAN B PEFD ..... **Error! Bookmark not defined.**

DAFTAR TABEL

Tabel 1.1 Pabrik Isoproplamin di Dunia .....**Error! Bookmark not defined.**

Tabel 1.2 Data Konsumsi Isopropilamin (Ton/Tahun) .....**Error! Bookmark not defined.**

Tabel 1.2 Data Konsumsi Isopropilamin (Ton/Tahun) .....**Error! Bookmark not defined.**

Tabel 1.3 Data Ekpor Isopropilamin .....**Error! Bookmark not defined.**

Tabel 1.3 Data Ekpor Isopropilamin.....**Error! Bookmark not defined.**

Tabel 1.4 Impor Isopropilamin di Indonesia .....**Error! Bookmark not defined.**

Tabel 1.5 Ketersediaan Bahan Baku Di Indonesia **Error! Bookmark not defined.**

Tabel 1.6 Kualitas suatu produk Pabrik Isopropylamine .....**Error! Bookmark not defined.**

Tabel 1.7 Perbandingan pembentukan Isopropilamin berdasarkan proses ... **Error! Bookmark not defined.**

Tabel 4. 1 Rencana Pembagian Areal Tanah .....**Error! Bookmark not defined.**

Tabel 4. 1 Rencana Pembagian Areal Tanah .....**Error! Bookmark not defined.**

Tabel 4. 2 Neraca Massa Total .....**Error! Bookmark not defined.**

Tabel 4. 3 Neraca Massa di Reaktor (R-01) .....**Error! Bookmark not defined.**

Tabel 4. 4 Neraca Massa di Kondensor 1 (CD-01) .....**Error! Bookmark not defined.**

Tabel 4. 5 Neraca Massa di Kondensor 2 (CD-02) .....**Error! Bookmark not defined.**

Tabel 4. 6 Neraca Massa di Separator 1 (SP-01)..**Error! Bookmark not defined.**

Tabel 4. 7 Neraca Massa di Separator 2 (SP-02)...**Error! Bookmark not defined.**

Tabel 4. 8 Neraca Panas pada Reaktor (R-01) .....**Error! Bookmark not defined.**

Tabel 4. 8 Neraca Panas pada Reaktor (R-01) .....**Error! Bookmark not defined.**

Tabel 4. 9 Neraca Panas pada Kondensor 1 (CD-01).....**Error! Bookmark not defined.**

Tabel 4. 10 Neraca Panas pada Kondensor 2 (CD-02).....**Error! Bookmark not defined.**

Tabel 4. 11 Neraca Panas pada Vaporizer 1 (VP-01).....**Error! Bookmark not defined.**

Tabel 4. 12 Neraca Panas pada Vaporizer 2 (VP-02).....**Error! Bookmark not defined.**

Tabel 4. 13 Kebutuhan Pendingin (Dowterm A) ..**Error! Bookmark not defined.**

Tabel 4. 14 Kebutuhan Steam .....**Error! Bookmark not defined.**

Tabel 4. 15 Kebutuhan Air untuk perkantoran dan rumah tangga ..... **Error! Bookmark not defined.**

Tabel 4. 16 Gaji Karyawan.....**Error! Bookmark not defined.**

Tabel 4. 16 Gaji Karyawan.....**Error! Bookmark not defined.**

Tabel 4. 17 Jadwal Kerja masing-masing regu .....**Error! Bookmark not defined.**

Tabel 4. 17 Jadwal Kerja masing-masing regu .....**Error! Bookmark not defined.**

Tabel 4. 18 Tabel Physical Plant Cost (PPC).....**Error! Bookmark not defined.**

Tabel 4. 19 Direct Plant Cost (DPC).....**Error! Bookmark not defined.**

Tabel 4. 20 Fixed Capital Investement (FCI).....**Error! Bookmark not defined.**

DAFTAR GAMBAR

Gambar 1.1 Grafik Konsumsi Isopropilamin .....**Error! Bookmark not defined.**

Gambar 1.2 Grafik Ekspor Isopropilamin .....**Error! Bookmark not defined.**

Gambar 1.3 Impor Isopropilamin di Indonesia ....**Error! Bookmark not defined.**

Gambar 4. 1 Rencana wilayah pabrik isopropilamin yang akan di dirikan.. **Error! Bookmark not defined.**

Gambar 4. 2 Layout Pabrik.....**Error! Bookmark not defined.**

Gambar 4. 3 Layout Alat Proses.....**Error! Bookmark not defined.**

Gambar 4. 4 Diagram Alir Kualitatif.....**Error! Bookmark not defined.**

Gambar 4. 5 Diagram Alir Kuantitatif.....**Error! Bookmark not defined.**

Gambar 4. 6 Diagram Alir Proses Pengolahan Air .....**Error! Bookmark not defined.**

Gambar 4. 7 Struktur Organisasi .....**Error! Bookmark not defined.**

Gambar 4. 8 Grafik SDP dan BEP .....**Error! Bookmark not defined.**