

DAFTAR ISI

| | |
|---|-----|
| NOMOR PERSOALAN | ii |
| LEMBAR PENGESAHAN..... | iii |
| PERNYATAAN BEBAS PLAGIASI | iv |
| MOTTO..... | v |
| HALAMAN PERSEMBAHAN | vi |
| KATA PENGANTAR | vii |
| ABSTRACT | ix |
| INTISARI..... | x |
| DAFTAR ISI | xi |
| DAFTAR GAMBAR..... | xii |
| DAFTAR TABEL | xiv |
| BAB I PENDAHULUAN | 1 |
| 1.1 Latar Belakang..... | 1 |
| 1.2 Rumusan Masalah | 2 |
| 1.3 Tujuan | 2 |
| 1.4 Batasan Masalah | 2 |
| 1.5 Metode Pengumpulan Data | 3 |
| 1.6 Sistematika Penulisan..... | 4 |
| BAB II LANDASAN TEORI | 5 |
| 2.1 Analisa..... | 5 |
| 2.2 <i>Cooling Tower</i> | 5 |
| 2.2.1 Konstruksi <i>Cooling Tower</i> | 6 |
| 2.2.2 Macam-macam <i>Cooling Tower</i> | 10 |
| 2.3 Prinsip Kerja <i>Cooling Tower</i> | 11 |
| 2.4 Kotoran pada <i>Cooling Tower</i> | 11 |
| 2.5 Hukum Keseimbangan Massa dan Energi | 13 |
| 2.5.1 Keseimbangan Massa | 13 |

| | |
|---|----|
| 2.5.2 Keseimbangan Energi..... | 14 |
| 2.5.3 Keseimbangan Energi pada <i>Cooling Tower</i> | 15 |
| 2.6 Performa <i>Cooling Tower</i> | 16 |
| 2.6.1 <i>Range</i> | 16 |
| 2.6.2 <i>Approach</i> | 16 |
| 2.6.3 Efektifitas Pendinginan | 17 |
| BAB III METODE PENELITIAN | 18 |
| 3.1 Diagram Alir..... | 18 |
| 3.2 Lokasi Penelitian..... | 18 |
| 3.3 Waktu Pengumpulan Data..... | 19 |
| 3.4 Teknik Pengumpulan Data | 19 |
| 3.4.1 Observasi | 20 |
| 3.4.2 Studi Literatur | 23 |
| BAB IV HASIL DAN PEMBAHASAN | 24 |
| 4.1 Data | 24 |
| 4.2 Performa <i>Cooling Tower</i> | 25 |
| 4.2.1 <i>Range</i> | 25 |
| 4.2.2 <i>Approach</i> | 26 |
| 4.2.3 Efektifitas..... | 27 |
| 4.3 <i>Cooling Capacity</i> | 28 |
| 4.4 Pembahasan | 34 |
| BAB V PENUTUP | 36 |
| 5.1 Kesimpulan..... | 36 |
| 5.2 Saran..... | 36 |
| DAFTAR PUSTAKA | 37 |
| LAMPIRAN | 39 |