

## DAFTAR ISI

|  | <b>Halaman</b> |
|--|----------------|
| <b>HALAMAN COVER</b> .....                   | i              |
| <b>HALAMAN JUDUL</b> .....                   | ii             |
| <b>HALAMAN PERNYATAAN KEASLIAN</b> .....     | iii            |
| <b>HALAMAN PENGESAHAN</b> .....              | iv             |
| <b>HALAMAN TANDA LULUS</b> .....             | v              |
| <b>HALAMAN PERSETUJUAN PUBLIKASI</b> .....   | vi             |
| <b>KATA PENGANTAR</b> .....                  | vii            |
| <b>ABSTRAK</b> .....                         | x              |
| <b>DAFTAR ISI</b> .....                      | xi             |
| <b>DAFTAR TABEL</b> .....                    | xv             |
| <b>DAFTAR GAMBAR</b> .....                   | xviii          |
| <b>DAFTAR LAMPIRAN</b> .....                 | xxi            |
| <br><b>BAB I PENDAHULUAN</b>                 |                |
| 1.1 Latar Belakang .....                     | I-1            |
| 1.2 Perumusan Masalah .....                  | I-2            |
| 1.3 Tujuan Penelitian .....                  | I-3            |
| 1.4 Pembatasan Masalah .....                 | I-3            |
| 1.5 Sistematika Penulisan .....              | I-3            |
| <br><b>BAB II TINJAUAN PUSTAKA</b>           |                |
| 2.1 <i>Interlining</i> .....                 | II-1           |
| 2.1.1 Jenis – Jenis <i>Interlining</i> ..... | II-1           |
| 2.2 Sistem Pemeliharaan .....                | II-2           |

|          |  |       |
|----------|--|-------|
| 2.2.1    | Pengertian Pemeliharaan .....                      | II-3  |
| 2.3.2    | Tujuan Pemeliharaan .....                          | II-4  |
| 2.3.3    | Jenis – Jenis Pemeliharaan .....                   | II-4  |
| 2.3      | <i>Total Productive Maintenance</i> .....          | II-7  |
| 2.3.1    | Definisi <i>Total Productive Maintenance</i> ..... | II-7  |
| 2.3.2.   | Tujuan dan Dasar Pemikiran TPM.....                | II-9  |
| 2.3.3    | Sejarah dan Perkembangan TPM.....                  | II-10 |
| 2.3.4    | Latar Belakang Perlunya TPM .....                  | II-13 |
| 2.3.5.   | Pilar – Pilar TPM.....                             | II-16 |
| 2.3.5.1  | 5S.....  | II-16 |
| 2.3.5.2  | Pemeliharaan Mandiri .....                         | II-18 |
| 2.3.5.3  | Perbaikan Bertahap.....                            | II-18 |
| 2.3.5.4  | Pemeliharaan Terencana.....                        | II-19 |
| 2.3.5.5. | Pemeliharaan Kualitas.....                         | II-19 |
| 2.3.5.6  | Pelatihan.....                                     | II-20 |
| 2.3.5.7  | Organisasi Kerja .....                             | II-21 |
| 2.3.5.8  | Keamanan, Kesehatan, dan Lingkungan .....          | II-21 |
| 2.3.6    | Keuntungan Implementasi TPM.....                   | II-22 |
| 2.4      | <i>Overall Equipment Effectivnee</i> .....         | II-23 |
| 2.4.1    | Definisi OEE .....                                 | II-26 |
| 2.4.2    | Tujuan Implementasi OEE .....                      | II-28 |
| 2.4.3    | Pengukuran Nilai OEE.....                          | II-29 |
| 2.4.3.1  | <i>Avaliability</i> .....                          | II-30 |
| 2.4.3.2  | <i>Performance Rate</i> .....                      | II-32 |
| 2.4.3.3  | <i>Quality Rate</i> .....                          | II-32 |
| 2.5      | <i>Statistical Process Control</i> .....           | II-33 |
| 2.5.1    | Tujuan dari SPC.....                               | II-34 |
| 2.5.2    | Teknik – Teknik SPC.....                           | II-34 |

|   |       |
|---|-------|
| 2.5.3.7 <i>Tools</i> .....                        | II-35 |
| 2.5.3.1 Lembar Pengumpulan Data .....             | II-35 |
| 2.5.3.2 Diagram Pareto.....                       | Ii-38 |
| 2.5.3.3 Diagram Sebab Akibat .....                | II-39 |
| 2.5.3.4 <i>Histogram</i> .....                    | II-40 |
| 2.5.3.5 Diagram tebar .....                       | II-42 |
| 2.5.3.6 Grafik .....                              | II-43 |
| 2.5.3.7 Peta Kendali .....                        | II-43 |
| 2.6 <i>Diagram Matriks</i> .....                  | II-44 |
| 2.7 <i>Failure Mode and Effect Analysis</i> ..... | II-46 |

### **BAB III METODE PENELITIAN**

|   |       |
|---|-------|
| 3.1 Tempat dan Waktu Penelitian .....                   | III-1 |
| 3.2 Tahap Penelitian .....                              | III-1 |
| 3.2.1 Studi Lapangan.....                               | III-1 |
| 3.2.2 Identifikasi Masalah .....                        | III-2 |
| 3.2.3 Studi Pustaka .....                               | III-2 |
| 3.2.4 Identifikasi Tujuan Masalah.....                  | III-2 |
| 3.2.5 Pengumpulan Data.....                             | III-3 |
| 3.2.6 Pengolahan Data .....                             | III-3 |
| 3.2.7 Identifikasi dengan <i>Diagram Fishbone</i> ..... | III-4 |
| 3.2.8 Menentukan <i>Critical To Quality</i> .....       | III-4 |
| 3.2.9 Solusi Perbaikan .....                            | III-5 |
| 3.2.10 Kesimpulan dan Saran .....                       | III-5 |
| 3.2.11 <i>Flowchart</i> Tahap Penelitian .....          | III-5 |

### **BAB IV PENGUMPULAN DATA DAN ANALISIS**

|  |       |
|--|-------|
| 4.1 Gambaran Umum Perusahaan .....                         | IV-1  |
| 4.1.1 Sejarah dan Perkembangan Perusahaan .....            | IV-2  |
| 4.1.2 Tata Letak Perusahaan .....                          | IV-3  |
| 4.1.3 Kebijakan K3 Perusahaan.....                         | IV-4  |
| 4.1.4 Produk yang dihasilkan .....                         | IV-7  |
| 4.1.5 Bahan Baku .....                                     | IV-8  |
| 4.1.6 Mesin dan Peralatan .....                            | IV-10 |
| 4.2 Pengumpulan Data OEE.....                              | IV-20 |
| 4.2.1 <i>Availability Ratio</i> .....                      | IV-20 |
| 4.2.2 <i>Performance Ratio</i> .....                       | IV-21 |
| 4.2.3 <i>Quality Ratio</i> .....                           | IV-21 |
| 4.2.4 <i>Overall Equipment Effectivness</i> .....          | IV-22 |
| 4.3 Pengolahan Data OEE .....                              | IV-22 |
| 4.3.1 Pengukuran Nilai <i>Availability Ratio</i> .....     | IV-22 |
| 4.3.2 Pengukuran Nilai <i>Performance Ratio</i> .....      | IV-24 |
| 4.3.3 Pengukuran Nilai <i>Quality Ratio</i> .....          | IV-25 |
| 4.3.4 Pengukuran Nilai OEE.....                            | IV-26 |
| 4.4 Analisa Perhitungan OEE .....                          | IV-27 |
| 4.4.1 Analisis Perhitungan <i>Availability Ratio</i> ..... | IV-28 |
| 4.4.2 Analisis Perhitungan <i>Performance Ratio</i> .....  | IV-31 |
| 4.4.3 Analisis Perhitungan <i>Quality Ratio</i> .....      | IV-34 |
| 4.4.4 Analisis Perhitungan OEE.....                        | IV-36 |
| 4.5 Analisis Sebab Akibat .....                            | IV-38 |
| 4.5.1 <i>Quality Ratio Losses</i> .....                    | IV-38 |
| 4.5.2 <i>Availability Ratio Losses</i> .....               | IV-48 |
| 4.6 <i>Diagram Matriks</i> .....                           | IV-61 |
| 4.7 <i>Failure Mode And effect Analysis</i> .....          | IV-64 |

## **BAB V KESIMPULAN DAN SARAN**

5.1 Kesimpulan ..... V-1

5.2 Saran ..... V-2

## **DAFTAR PUSTAKA**

## **LAMPIRAN**