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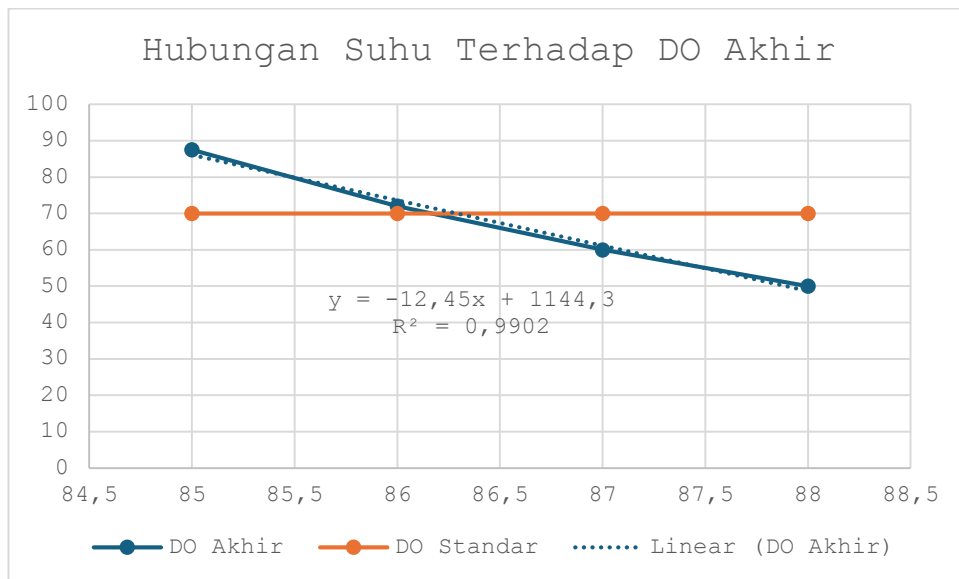
### Lampiran 1. Hasil Pengamatan Kinerja Deaerator

| Tanggal | Suhu Feed Tank (°C) |       |       |       | Suhu Deaerator (°C) |       |       |       | Bahan Kimia/Hari (Kg) |
|---------|---------------------|-------|-------|-------|---------------------|-------|-------|-------|-----------------------|
|         | Waktu (WIB)         |       |       |       | Waktu (WIB)         |       |       |       |                       |
|         | 13.00               | 14.00 | 15.00 | 16.00 | 13.00               | 14.00 | 15.00 | 16.00 |                       |
| 28 Jan  | 85                  | 88    | 88    | 92    | 91                  | 88    | 88    | 90    | 4                     |
| 29 Jan  | 93                  | 93    | 90    | 93    | 94                  | 93    | 90    | 92    | 2                     |
| 30 Jan  | 76                  | 82    | 81    | 83    | 84                  | 94    | 94    | 96    | 3,5                   |
| 31 Jan  | 85                  | 84    | 90    | 94    | 90                  | 90    | 89    | 90    | 3                     |
| 2 Feb   | 95                  | 90    | 90    | 94    | 90                  | 88    | 88    | 90    | 4                     |
| 3 Feb   | 66                  | 70    | 76    | 80    | 76                  | 84    | 90    | 93    | 4,5                   |
| 4 Feb   | 85                  | 90    | 90    | 92    | 90                  | 90    | 90    | 90    | 3                     |
| 5 Feb   | 70                  | 76    | 80    | 82    | 84                  | 86    | 92    | 94    | 5                     |
| Rerata  | 81,9                | 84,1  | 85,6  | 88,8  | 87,4                | 89,1  | 90,1  | 91,9  | 3,6                   |

### Lampiran 2. Parameter Operasi Deaerator

| Bulan (2025) | Suhu (°C) | Tekanan (kg/cm <sup>2</sup> ) | DO In (ppb) | DO Out (ppb) |
|--------------|-----------|-------------------------------|-------------|--------------|
| Maret        | 85        | 0,45                          | 3.200       | 90           |
| April        | 85        | 0,45                          | 3.100       | 85           |
| Mei          | 86        | 0,55                          | 3.050       | 75           |
| Juni         | 86        | 0,55                          | 3.000       | 70           |
| Juli         | 87        | 0,65                          | 2.950       | 60           |
| Agustus      | 86        | 0,55                          | 3.000       | 70           |
| September    | 86        | 0,57                          | 3.011       | 70           |
| Oktober      | 86        | 0,55                          | 3.050       | 75           |
| November     | 87        | 0,65                          | 2.900       | 60           |
| Desember     | 88        | 0,75                          | 2.850       | 50           |
| Rerata       | 86,20 °C  | 0,57 kg/cm <sup>2</sup>       | 3.011 ppb   | 70,56 ppb    |

### Lampiran 3. Grafik Hubungan Suhu Terhadap DO Akhir



### Lampiran 4. Perhitungan Koefisien Determinasi

$$\begin{aligned}
 y &= -12.45x + 1144.3 \\
 70 &= -12.45x + 1144.3 \\
 70 - 1144.3 &= -12.45x \\
 &= -1.074,3 = -12.45x \\
 x &= \frac{-1.074,3}{-12.45} = 86,28
 \end{aligned}$$

Suhu optimal untuk mengurangi DO yaitu lebih dari 86.28°C

### Lampiran 5. Data Efisiensi Deaerasi

| No.   | Bulan     | DO In (ppb) | DO Out (ppb) | Efisiensi (%) |
|-------|-----------|-------------|--------------|---------------|
| 1.    | Maret     | 3.200       | 90           | 97,19         |
| 2.    | April     | 3.100       | 85           | 97,26         |
| 3.    | Mei       | 3.050       | 75           | 97,54         |
| 4.    | Juni      | 3.000       | 70           | 97,67         |
| 5.    | Juli      | 2.950       | 60           | 97,97         |
| 6.    | Agustus   | 3.000       | 70           | 97,67         |
| 7.    | September | 3.011       | 70           | 97,67         |
| 8.    | Oktober   | 3.050       | 75           | 97,54         |
| 9.    | November  | 2.900       | 60           | 97,93         |
| 10.   | Desember  | 2.850       | 50           | 98,25         |
| Total |           |             |              | 976,69        |

**Lampiran 6. Data Konsumsi Bulanan Oxygen Scavenger**

| No.    | Bulan     | Konsumsi (L/bulan) |
|--------|-----------|--------------------|
| 1.     | Maret     | 180                |
| 2.     | April     | 170                |
| 3.     | Mei       | 155                |
| 4.     | Juni      | 145                |
| 5.     | Juli      | 130                |
| 6.     | Agustus   | 145                |
| 7.     | September | 150                |
| 8.     | Oktober   | 155                |
| 9.     | November  | 130                |
| 10.    | Desember  | 115                |
| Rerata |           | 147,5 L/bulan      |

**Lampiran 7. Hubungan Suhu Deaerator dengan DO Outlet Tahun 2025**

| No. | Suhu Deaerator (°C) | DO Outlet (ppb) | Keterangan Kinerja |
|-----|---------------------|-----------------|--------------------|
| 1.  | 85                  | 90              | DO masih tinggi    |
| 2.  | 86                  | 70–75           | Mulai menurun      |
| 3.  | 87                  | 60              | Lebih efektif      |
| 4.  | 88                  | 50              | Paling optimal     |