



**Laporan Commisioning & Trial UV Aquafides**  
**PT. TIRTA INVESTAMA-TANGGAMUS**  
**6 September 2026**  
**Aang**  
**Isnandar**

**PT . SARANA KARYAPUTERA MANDIRI**

Kantor  
EightyEigth@Kasablanka, Lt 30 Unit F  
Jl. Raya Casablanca No. Kav.88, Menteng  
Dalam, Kec. Tebet, Kota Jakarta Selatan, 12870  
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## Summary of Technician's Field Visit

**Plant** : PT. Tirta Investama-Tanggamus  
**Line** : UV Destructor Ozone line SPS  
**Technicians** : Aang, Isnandar  
**PIC Plant** : Bapak Harmono

| Maintenance     |                                                                                                                   |                      |                                                                                                              |                                                                                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Date            | Issue                                                                                                             | Description          | Action Plan                                                                                                  | Remark                                                                                                                                         |
| 08 Agustus 2026 | <ul style="list-style-type: none"> <li>- Instalasi UV Aquafides</li> <li>- Commisioning &amp; Trial UV</li> </ul> | - Pemasangan unit UV | 1. Informasi unit UV<br> | Note; <ul style="list-style-type: none"> <li>- Type = 3 AF300 T</li> <li>- SN = A25790.1219WD</li> <li>- Manufacture date = 12/2019</li> </ul> |

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|  |   |   |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                     |
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|  | - | - | <p>2. Proses instalasi UV</p>   | <p>Note;</p> <ul style="list-style-type: none"> <li>- Welding &amp; piping dari pihak HTU</li> <li>- Pemasangann parts UV <ul style="list-style-type: none"> <li>• Lampu UV</li> <li>• Control board</li> <li>• Ballast UV 3 pcs</li> <li>• Relays interlock</li> </ul> </li> </ul> |
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## PT . SARANA KARYAPUTERA MANDIRI

### Kantor

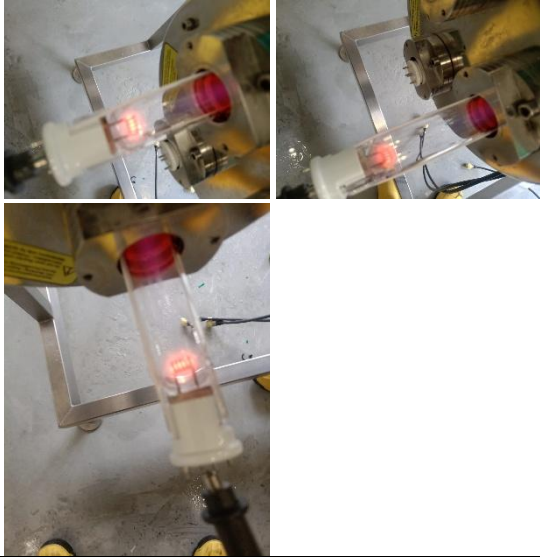
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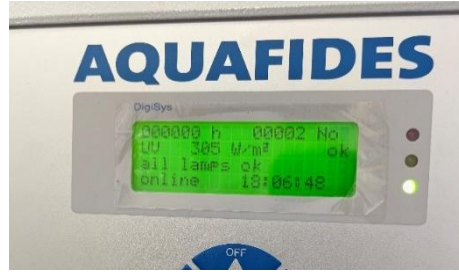
Jl. Raya Casablanca No. Kav.88, Menteng

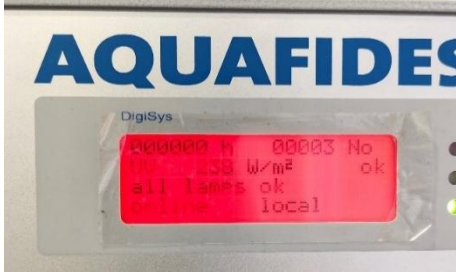
Dalam, Kec. Tebet, Kota Jakarta Selatan, 12870

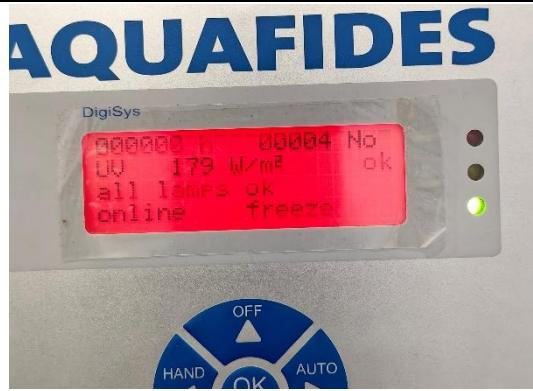
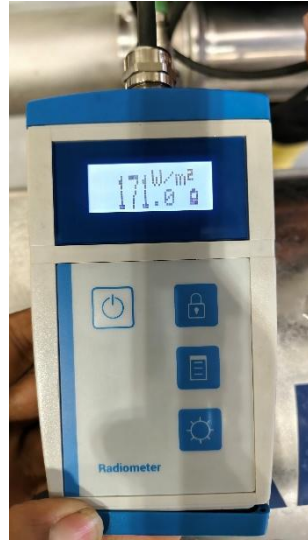
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|  |  |  | <p>3. Pengecekan tegangan Input UV</p>  | <p>Note;<br/>Melakukan pengukuran tegangan dan frequency setelah noise filter</p> <ul style="list-style-type: none"> <li>- Voltage = 229,7 VAC</li> <li>- Frequency = 50,18 Hz</li> </ul> |
|  |  |  | <p>4. Pengetesan lampu UV baru</p>     | <p>Note;</p> <ul style="list-style-type: none"> <li>- Pengetasan element tungsten lampu UV 1, 2, dan 3</li> <li>- Kondisi elemnt tungten UV Baik</li> </ul>                               |

|  |  |  |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                 |
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|  |  |  | <p>5. Verifikasi sensor intensitas UV dengan 3 lampu</p>   | <p>Note;</p> <ul style="list-style-type: none"> <li>- Test Intensitas lampu UV dengan 3 lampu</li> <li>- Pembacaan sensor unit UV= 305 W/m<sup>2</sup></li> <li>- Pembacaan sensor referensi UV= 286 W/m<sup>2</sup></li> </ul> |
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|  |  |  | <p>6. Verifikasi sensor intensitas UV dengan 2 lampu</p>   | <p>Note;</p> <ul style="list-style-type: none"> <li>- Test Intensitas lampu UV dengan 2 lampu</li> <li>- Pembacaan sensor unit UV= 236 W/m<sup>2</sup></li> <li>- Pembacaan sensor referensi UV= 226 W/m<sup>2</sup></li> </ul> |
|  |  |  | <p>7. Verifikasi sensor intensitas UV dengan 1 lampu</p>                                                                                                                                                                          | <p>Note;</p> <ul style="list-style-type: none"> <li>- Test Intensitas lampu UV dengan 1 lampu</li> <li>- Pembacaan sensor unit UV=</li> </ul>                                                                                   |

|                                                                                                                                                                        |  |  |                                                                                                                                                                          |                                                                                            |
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|                                                                                                                                                                        |  |  |   | <p>179 W/m<sup>2</sup></p> <p>- Pembacaan sensor referensi<br/>UV= 171 W/m<sup>2</sup></p> |
| <p>Kesimpulan;</p> <ul style="list-style-type: none"> <li>- Setelah dilakukan instalasi dan pemasangan komponen-komponen Unit UV sudah dalam kondisi normal</li> </ul> |  |  |                                                                                                                                                                          |                                                                                            |

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Note;

- Bersihkan sensor intensitas UV jika terdapat embun/kondensat pada sensor intensitas UV.
- Lakukan penggantian lampu setiap 8000 jam agar performa unit UV tetap dalam kondisi baik.
- Pastikan operasional On/Off lampu UV tidak boleh lebih dari 4 kali dalam 24 jam, karena dapat mengurangi lifetime lampu UV.

Dilaporkan Oleh;



(Mohamad Rizky Isnandar)  
Technical Support

Diperiksa Oleh;



(Bagus Prabowo)  
Technical Manager



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