



# 110 MLD Surface Water Treatment Plant

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## Daily Water Quality Report of Laboratory

Date of Testing: 25-08-2024

Test No: 1873

Weather: Rain

| Sl No.         | Water Quality Parameters | Units | Frequency   | BDS for Drinking Water (ECR-1997) | Instrument / Method          | River Water             | IPR Water               | Raw water               | Post-sedimentation / Pre-filters Water | Post-filters / Pre-Treated Water | Post-Treated Water      |       |       |
|----------------|--------------------------|-------|-------------|-----------------------------------|------------------------------|-------------------------|-------------------------|-------------------------|--|----------------------------------|-------------------------|-------|-------|
|                |                          |       |             |                                   |                              | Sampling Time: 09:20 AM | Sampling Time: 10:00 AM | Sampling Time: 10:30 AM | Sampling Time: 11:00 AM                | Sampling Time: 11:10 AM          | Sampling Time: 11:20 AM |       |       |
| 1              | Temperature              | °C    | day         | 20-30                             | HI-98107/<br>Electrometric   |                         |                         | 27.2                    | 27.2                                   | 27.1                             | 27.2                    |       |       |
| 2              | pH                       |       | day         | 6.5-8.5                           |                              |                         |                         | 7.9                     | 7.7                                    | 7.8                              | 7.7                     |       |       |
| 3              | Turbidity                | NTU   | day         | <1 NTU                            | WTW PhotoFlex Turb           | 413                     | 112                     | 112                     | 1.98                                   | 0.98                             | 0.37                    |       |       |
| 4              | Color                    | pt-co | day         | 15                                | Orion AQ3700/<br>Photometric |                         |                         | 500                     | 37                                     | 15                               | 7                       |       |       |
| 5              | Suspended Solid          | mg/L  | day         | ...                               |                              |                         |                         | 403                     | 109                                    | 109                              | 2                       | 0     | 0     |
| 6              | Taste and Odour          |       | day         | Odorless                          | Manual                       |                         |                         | Dirty Smell             | Dirty Smell                            | No Objectionable                 | No Objectionable        |       |       |
| 7              | Alkalinity               | mg/L  | Once a week | ...                               | H2SO4 Titration              |                         |                         |                         |  |                                  | 96                      |       |       |
| 8              | Hardness                 | mg/L  | Once a week | 200-500                           | Orion AQ3700 /Photometric    |                         |                         |                         |  |                                  | 114                     |       |       |
| 9              | Chloride                 | ppm   | day         | 150-600                           | Mercuric Nitrate Titration   |                         |                         |                         |  |                                  | 30                      | 30    | 30    |
| 10             | Total Dissolved Solids   | ppm   | day         | 1000                              | Orion Star™ A222 & A322      |                         |                         |                         |  |                                  | 116.4                   | 117.9 | 124.7 |
| <b>Remark:</b> |                          |       |             |                                   |                              |                         |                         |                         |  |                                  |                         |       |       |