



# 110 MLD Surface Water Treatment Plant

Khulna WASA, Pathorghata, Rupsha, Khulna-9240

## Daily Water Quality Report of Laboratory

Date of Testing: 08-12-2024

Test No: 1978

Weather: Sunny

| 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: 10:40 AM | Sampling Time: 11:10 AM | Sampling Time: 11:20 AM | Sampling Time: 12:00 PM                | Sampling Time: 12:10 PM          | Sampling Time: 12:20 PM |       |
| 1       | Temperature              | °C    | day         | 20-30                             | HI-98107/<br>Electrometric   |                         |                         | 25.1                    | 24.9                                   | 25.1                             | 25.6                    |       |
| 2       | pH                       |       | day         | 6.5-8.5                           |                              |                         |                         | 8                       | 7.8                                    | 7.8                              | 7.8                     |       |
| 3       | Turbidity                | NTU   | day         | <1 NTU                            | WTW PhotoFlex Turb           | 91.5                    | 18.1                    | 17.8                    | 1.99                                   | 0.47                             | 0.14                    |       |
| 4       | Color                    | pt-co | day         | 15                                | Orion AQ3700/<br>Photometric |                         |                         | 73                      | 48                                     | 18                               | 12                      |       |
| 5       | Suspended Solid          | mg/L  | day         | ...                               |                              |                         |                         | 65                      | 14                                     | 14                               | 3                       | 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              |                         |                         |                         |  |                                  |                         | 120   |
| 8       | Hardness                 | mg/L  | Once a week | 200-500                           | Orion AQ3700 /Photometric    | 147                     |                         |                         |  |                                  |                         |       |
| 9       | Chloride                 | ppm   | day         | 150-600                           | Mercuric Nitrate Titration   | 30                      | 30                      |                         |  |                                  |                         | 30    |
| 10      | Total Dissolved Solids   | ppm   | day         | 1000                              | Orion Star™ A222 & A322      | 163.9                   | 160.5                   |                         |  |                                  |                         | 162.8 |
| Remark: |                          |       |             |                                   |                              |                         |                         |                         |  |                                  |                         |       |