



# Bangabandhu Water Treatment Plant

Khulna WASA, Pathorghata, Rupsha, Khulna-9240

## Daily Water Quality Report of Laboratory

Date of Testing: 18-01-2024

Test No: 1654

Weather: Cloudy

| 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: 09:30 AM | Sampling Time: 11:20 AM | Sampling Time: 12:03 PM                | Sampling Time: 12:19 PM          | Sampling Time: 12:30 PM |       |
| 1       | Temperature              | °C    | day         | 20-30                             | OHAUS-ST300/ Electrometric |                            |                         | 20.1                    | 20.4                                   | 20                               | 20.1                    |       |
| 2       | pH                       |       | day         | 6.5-8.5                           |                            |                            |                         | 8.09                    | 7.91                                   | 7.79                             | 7.61                    |       |
| 3       | Turbidity                | NTU   | day         | <1 NTU                            | WTW PhotoFlex Turb         | 74                         | 15.3                    | 15.2                    | 1.9                                    | 0.88                             | 0.18                    |       |
| 4       | Color                    | pt-co | day         | 15                                | Orion AQ3700/ Photometric  |                            |                         | 73                      | 26                                     | 13                               | 7                       |       |
| 5       | Suspended Solid          | mg/L  | day         | ...                               |                            |                            |                         | 59                      | 10                                     | 10                               | 1                       | 0     |
| 6       | Taste and Odour          |       | day         | Odorless                          | Manual                     |                            |                         | Dirty Smell             | No Objectionable                       | No Objectionable                 | No Objectionable        |       |
| 7       | Total Dissolved Solids   | ppm   | day         | 1000                              | Orion Star™ A222 & A322    | 177.5                      | 176.3                   |                         |  |                                  |                         |       |
| 8       | Salinity                 | PSU   | Once a week | ...                               |                            |                            |                         |                         |  |                                  |                         | 181   |
| 9       | Conductivity             | µS/cm | Once a week | ...                               |                            |                            |                         |                         |  |                                  |                         | 0.226 |
| 10      | Resistivity              | Ω-cm  | Once a week | ...                               |                            |                            |                         |                         |  |                                  |                         | 368.4 |
| 11      | Chloride                 | ppm   | day         | 150-600                           |                            | Mercuric Nitrate Titration | 30                      |                         |  |                                  |                         | 30    |
| Remark: |                          |       |             |                                   |                            |                            |                         |                         |  |                                  |                         |       |