



# Bangabandhu Water Treatment Plant

Khulna WASA, Pathorghata, Rupsha, Khulna-9240

## Daily Water Quality Report of Laboratory

Date of Testing: 13-11-2023

Test No: 1588

Weather: Sunny

| Sl No.         | Water Quality Parameters | Units | Frequency    | BDS for Drinking Water (ECR-1997) | Instrument / Method           | IPR Water               | Raw water               | Post-sedimentation / Pre-filters Water | Post-filters / Pre-Treated Water | Post-Treated Water      |       |
|----------------|--------------------------|-------|--------------|-----------------------------------|-------------------------------|-------------------------|-------------------------|--|----------------------------------|-------------------------|-------|
|                |                          |       |              |                                   |                               | Sampling Time: 10:20 AM | Sampling Time: 11:01 AM | Sampling Time: 11:35 AM                | Sampling Time: 11:50 AM          | Sampling Time: 12:00 PM |       |
| 1              | Temperature              | °C    | day          | 20-30                             | OHAUS-ST300/ Electrometric    |                         | 29.5                    | 29.6                                   | 29.4                             | 29.8                    |       |
| 2              | pH                       |       | day          | 6.5-8.5                           |                               |                         | 8.12                    | 8.09                                   | 7.88                             | 7.85                    |       |
| 3              | Turbidity                | NTU   | day          | <1 NTU                            | WTW PhotoFlex Turb            | 9.09                    | 9                       | 1.62                                   | 0.47                             | 0.22                    |       |
| 4              | Color                    | pt-co | day          | 15                                | Orion AQ3700/ Photometric     |                         | 72                      | 18                                     | 9                                | 13                      |       |
| 5              | Suspended Solid          | mg/L  | day          | ...                               |                               |                         | 7                       | 7                                      | 1                                | 0                       | 0     |
| 6              | Taste and Odour          |       | day          | Odorless                          | Manual                        |                         | Dirty Smell             | No Objectionable                       | No Objectionable                 | No Objectionable        |       |
| 7              | Total Aluminium          | mg/L  | Once a week  | 0.2                               | Eriochrome Cyanine R Method I |                         |                         |  |                                  | 0.017                   |       |
| 8              | Total Iron               | mg/L  | Once a week  | 0.3-1.0                           | USEPA 1 Ferro Ver Method      |                         |                         |  |                                  | 0.06                    |       |
| 9              | Total residual chlorine  | mg/L  | Twice a week | 0.2-0.4                           | USEPA DPD Method I            |                         |                         |  |                                  | 0.29                    |       |
| 10             | Chloride                 | ppm   | day          | 150-600                           | Mercuric Nitrate Titration    |                         |                         |  |                                  | 30                      | 40    |
| 11             | Total Dissolved Solids   | ppm   | day          | 1000                              | Orion Star™ A222 & A322       |                         |                         |  |                                  | 133.3                   | 135.3 |
| <b>Remark:</b> |                          |       |              |                                   |                               |                         |                         |  |                                  |                         |       |