



CENTRAL POLLUTION CONTROL BOARD
REGIONAL DIRECTORATE KOLKATA
Regional Directorate, 502 Southend Conclave, 6th Floor, 1582 Rajdanga Main Road, Kolkata- 700107



Water Laboratory (ANALYSIS REPORT)

Fresh Water Samples for Physico-Chemical Analysis Report

ULR No: TC70012300000030F

TC-7001

Samples Registration No. & Date : RDKL/FW/2324/SR00014, 06/10/2023 Report No. & Date of Issue : RDKL/2324/FW/00018,15/11/2023
Analysis Request Division/Organization : RD Kolkata Report sent to (Name, Mobile no. & Address of Indentor) : DH of RD Kolkata
Sample Details : Ground water of Bhatpara & Shyamnagar STP premises Sample Matrix : Fresh Water
Sample Collected by : Supriyo Goswami, Raktim Mandal Date & Time of Sample Receipt : 06/10/2023 13:41 PM
Sampling Plan Preference : RDKL/FW/2324/SP00012 Sample Analysis Period : 08/11/2023 to 10/11/2023
Report Status : Final

| Sr.No | Date of Sample Collection | Field Code | Arsenic | Calcium | Chemical Oxygen Demand | Chloride | Chromium | Conductivity | Copper | Fluoride | Hexavalent Chromium | Iron | K+ | Magnesium | Manganese | Na+ | Nickel |
|-------|---------------------------|------------|---------|---------|------------------------|----------|----------|--------------|--------|----------|---------------------|------|------|-----------|-----------|------|--------|
| 1 | 05/10/2023 | B-GW | BDL | 75 | 3 | 38 | BDL | 848 | BDL | 0.58 | BLQ | 136 | 24.8 | 35 | 143 | 3.3 | BDL |
| 2 | 05/10/2023 | S-GW | BDL | 65 | 4 | 19 | BDL | 684 | BDL | 0.53 | BLQ | 544 | 2.7 | 23 | 248 | 24.8 | BDL |

BDL : Below Deduction Limit

Remarks (if any) :

Analyst

Supervisor & Reviewer

Issued By (DH Water-Lab)

Md Abdur Rafique

Abhijit Pathak

Doc: CB/RDK/TR/QR/7.8/1

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| NO3- N | pH | Sulphate | Total Alkalinity | Total Dissolved Solids | Total Hardness as CaCO3 | Total Suspended Solids | Zinc |
|--------|-----|----------|------------------|------------------------|-------------------------|------------------------|------|
| 2.85 | 7.6 | 115 | 311 | 467 | 332 | B.D.L | 251 |
| 0.63 | 7.5 | 10 | 330 | 349 | 256 | B.D.L | 184 |

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Statement :

1. The results relate only to the samples tested.
2. The report shall not be reproduced except in full without written approval of the laboratory
3. BDL & Test methods are mentioned on back side of this report.
4. Samples will be retained only for one week after receipt of Report.

| Parameter Name | Test Method | Unit | Limit of Detection | Uncertainty of Measurement |
|------------------------|---|------|--------------------|----------------------------|
| Arsenic | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |
| Calcium | APHA 23Ed. 3500-Ca B Part 3000.254 to 255 | mg/l | 4 mg/l | |
| Chemical Oxygen Demand | APHA 24th Ed. 5220 B. Part 5000.544 to 545 | mg/l | 2 mg/l | |
| Chloride | APHA 24th ed. 4500-Cl B Part 4000.340 to 341 | mg/l | 5 mg/l | |
| Chromium | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |
| Cobalt | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |
| Colour | APHA 24th Ed. 2120 B Part 2000.82 to 83 | CU | | |
| Conductivity | APHA 24th Ed. 2510- B Part 2000.134 to 135 | | 3 uS/cm | |
| Copper | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |
| Fluoride | APHA 24th. Ed. 4500-F D, Part 4000.400 to 401 | mg/l | 0.04 mg/l | |
| Hexavalent Chromium | APHA 24th Ed. 3500-Cr Part 3000.256 to 258 | mg/l | 0.01 mg/l | |
| Iron | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |
| K+ | APHA 24th Ed. 3500 K-B, Part 3000.279-281 | mg/l | 0.1 mg/l | |

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| | | | | |
|-------------------------|--|---------------|-----------|------|
| Magnesium | APHA 24th Ed. 3500-Mg B, Part 3000.274 | mg/l | 2 mg/l | |
| Manganese | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |
| Na+ | APHA 24th Ed. 3500 Na-B, Part 3000.290-292 | mg/l | 0.1 mg/l | |
| Nickel | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |
| NO3- N | APHA 24th Ed. 4500-NO3 E, Part4000.438-440 | mg/l | 0.01 mg/l | |
| pH | APHA 24th Ed. 4500-H+B Part 4000.473-478 | | 2 | |
| Sulphate | APHA 24th Ed. 4500-SO4 E Part 4000.505-506 | mg/l | 4 mg/l | |
| Total Alkalinity | APHA 24th Ed. 2320-B Part 2000.112 to 114 | mg/l as CaCO3 | 8 mg/l | # #\ |
| Total Dissolved Solids | APHA 24th Ed. 2540 C Part 2000.145 | mg/l | 5 mg/l | |
| Total Hardness as CaCO3 | APHA 24th Ed. 2340-C Part 2000.124 to 126 | mg/l as CaCO3 | 10 mg/l | # #\ |
| Total Suspended Solids | APHA 24th Ed. 2540-D Part 2000.146 to 147 | mg/l | 5 mg/l | |
| Zinc | APHA 24th Ed. 3125 B Part 3000.233 to 242 | | 10 ppb | |

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