

**Laboratory** Regional Chemical Laboratory, Central Ground Water Board, South Eastern Region, Bhujal Bhawan, Khandagiri, Bhubaneswar, Odisha

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5027

Page 1 of 1

**Validity** 27.02.2019 to 26.02.2021

Last Amended on --

*"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"*

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

**CHEMICAL TESTING**

| I. | WATER        |  |  |                                  |
|----|--------------|--|--|----------------------------------|
| 1. | Ground Water | pH   | APHA-4500 - H <sup>+</sup> B, Page No.4-95, 23 <sup>rd</sup> Ed 2017 | 4 to 12                          |
|    |              | Conductivity                                 | APHA-2510B, Page No.2-58, 23 <sup>rd</sup> Ed 2017                   | 10 μS/cm to 10000 μS/cm at 25 °C |
|    |              | Hardness as CaCO <sub>3</sub>                | APHA-2340C, Page No.2-48, 23 <sup>rd</sup> Ed 2017                   | 5 mg/l to 1000 mg/l              |
|    |              | Total Alkalinity as CaCO <sub>3</sub>        | APHA-2320B, Page No.2-37, 23 <sup>rd</sup> Ed 2017                   | 5 mg/l to 1000 mg/l              |
|    |              | Calcium as Ca <sup>++</sup>                  | APHA-3500 Ca B, Page No.3-69, 23 <sup>rd</sup> Ed 2017               | 2 mg/l to 500 mg/l               |
|    |              | Magnesium as Mg <sup>++</sup>                | APHA-3500 Mg B, Page No.3-86, 23 <sup>rd</sup> Ed 2017               | 1 mg/l to 200 mg/l               |
|    |              | Sodium as Na <sup>+</sup>                    | APHA-3500 Na B, Page No.3-99, 23 <sup>rd</sup> Ed 2017               | 1 mg/l to 500 mg/l               |
|    |              | Potassium as K <sup>+</sup>                  | APHA-3500 K B, Page No.3-89, 23 <sup>rd</sup> Ed 2017                | 1 mg/l to 500mg/l                |
|    |              | Carbonate as CO <sub>3</sub> <sup>--</sup>   | APHA-2320 B, Page No.2-37, 23 <sup>rd</sup> Ed 2017                  | 2 mg/l to 500 mg/l               |
|    |              | Bicarbonate as HCO <sub>3</sub> <sup>-</sup> | APHA-2320 B, Page No.2-37, 23 <sup>rd</sup> Ed 2017                  | 3 mg/l to 1000 mg/l              |
|    |              | Chloride as Cl <sup>-</sup>                  | APHA-4500 Cl <sup>-</sup> B, Page No.4-75, 23 <sup>rd</sup> Ed 2017  | 5 mg/l to 10000 mg/l             |
|    |              | Fluoride as F <sup>-</sup>                   | APHA-4500 F <sup>-</sup> C, Page No.4-89, 23 <sup>rd</sup> Ed 2017   | 0.02 mg/l to 10 mg/l             |

**Mitali Gupta**  
Convenor

**Jitendra B. Vispute**  
Program Manager