**Water Quality Testing Laboratory**

Water Knowledge Centre (WKC)

The DHAN Academy (TDA), Madurai

TEST ANALYSIS REPORT

|  |  |  |  |
| --- | --- | --- | --- |
| **Customer Details:** | TDA | | |
| **Sample Number:** | 333 | **Sample Drawn By:** | Arumugam |
| **Sample Drawn Date:** | 2020-03-23 | **Sample Reached Lab on:** | 2020-03-23 |
| **Test Start Date:** | 2020-03-23 | **Test End Date:** | 2020-03-23 |
| **Sample Reference:** | Bottle 1 Malaipatti Opposite to TDA Borewell | | |

1. **Physical Parameters**

| **S. No.** | **Parameters** | **Acceptable Limit as per BIS** | **Permissible Limit as per BIS** | **Results** |
| --- | --- | --- | --- | --- |
|  | Appearance | - |  | Colourless Clear |
|  | Colour | - |  | None |
|  | Odour | Unobjectionable | Unobjectionable | Unobjectionable |
|  | Turbidity NTU | 1 | 5 | 0 |
|  | Electrical Conductivity (EC) | - |  | 1420 |
|  | Total Dissolved Solids (TDS) | 500 | 2000 | 994 |
|  | Total Solids |  |  | Not tested |
|  | Total Suspended Solids |  |  | Not tested |

1. **Chemical Parameters**

| **S. No.** | **Parameters** | **Acceptable Limit as per BIS** | **Permissible Limit as per BIS** | **Results** |
| --- | --- | --- | --- | --- |
|  | pH | 6.5 – 8.5 | 6.5 – 8.5 | 3 |
|  | PH Alkalinity as Caco3 | - | - |  |
|  | Total Alkalinity as CaCO3 | 200 | 600 | 2 |
|  | Total Hardness as CaCO3 | 200 | 600 | 3 |
|  | Calcium as Ca | 75 | 100 | 4 |
|  | Magnesium as Mg | 30 | 150 | 5 |
|  | Total iron as Fe | 0.1 | 1.0 | 6 |
|  | Sodium as Na | - |  | 7 |
|  | Potassium as K | - |  | 8 |
|  | Free Ammonia as NH3 | 0.5 | 0.5 | 9 |
|  | Nitrite as NO2 | 0.5 | 0.5 | 10 |
|  | Nitrate as NO3 | 45 | 45 | 11 |
|  | Chloride as Cl | 250 | 1000 | 230 |
|  | Fluoride as F | 1.0 | 1.5 | 123 |
|  | Sulphate as SO4 | 200 | 400 | 2230 |
|  | Phosphate as PO4 | 0.5 | 0.5 | 2 |
|  | Tids Test 4 hours as O |  |  | 3 |
|  | Dissolved Oxygen (DO) |  |  | 8 |
|  | Biological Oxygen Demand (BOD) |  |  | 9 |
|  | Chemical Oxygen Demand (COD) |  |  | 3 |

Note: All Chemical parameters are expressed in mg/l

1. **Bacteriological Parameters**

| **S. No.** | **Parameters** | **Acceptable Limit as per BIS** | **Permissible Limit as per BIS** | **Results** |
| --- | --- | --- | --- | --- |
| 1. | Faecal Coliform |  |  | 10 |

1. **Comments / Remarks**

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| --- |
| Testing |

Date: 18 July 2020

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Lab Analyst Lab In-charge Centre Head