

GOVERNMENT OF TELANGANA
DEPARTMENT OF WATER AND WASTE WATER EXAMINATION
Directorate of I.P.M,P.H.Labs, Food (H) Administration, Narayanaguda.

REPORT OF BACTERIOLOGICAL ANALYSIS OF WATER

1. Sample From: Vijaya Ratna High School, H.No:7-103, Sy.No.No: 53/V/E and 53/A & 76, Peerzadiguda , Medipally(V), Medchal- Malkajgiri (Dist).
2. Collected by: (Samples collected by Party)
3. Collected on : 05-08-2025
4. Received on: 05-08-2025

| Lab. Ref. No. | Source | Exact location | Residual Chlorine mg per liter | Total coliform bacteria (MPN Index) per 100ml | Faecal coliform bacteria per 100ml | Esch. coli per 100ml |
|---------------|------------------|----------------------------|--------------------------------|---|------------------------------------|----------------------|
| 8162 | Borewell water | Direct from Borewell water | ..... | 460 | Absent | Present |
| 8164 | Bubble can water | 20 Lits Bubble can water | ..... | Nil | .... | .... |

Remarks: The sample with Lab Ref No;8162 is bacteriologically unsatisfactory due to presence of coliform bacteria & E.coli.

The sample with Lab Ref No;8164 is bacteriologically satisfactory .

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REPORT OF PHYSICO CHEMICAL ANALYSIS OF WATER

| | | | | | |
|-----------------------------------|--|----------------------------------|---------------------------------|---|--|
| Sample From | Vijaya Ratna High School, | Collected by | (Samples collected by Party) | | |
| Address | H.No:7-103, Sy.No.No: 53/V/E and 53/A & 76, Peerzadiguda , Medipally(V), Medchal- Malkajgiri (Dist). | Collected on | 05-08-2025 | | |
| | | Received on | 05-08-2025 | | |
| District | Medchal- Malkajgiri (Dist). | | | | |
| State | Telangana | Sample volume | 2 ltr | | |
| Source profile | Borewell water / R.O water | Sample ID | 8163 / 8166 | | |
| S.No | Parameter | Source / Sample ID | | Drinking Water -Specification As per IS 10500 :2012 | |
| | | Direct from Borewell water/ 8163 | 20 Lits Bubble can water / 8166 | Requirement (Acceptable) | Permissible limit in the absence of alternative source |
| Physical parameters | | | | | |
| 1 | colour(Hazen),max | <5 | <5 | 5 | 15 |
| 2 | Turbidity (NTU),max | 6.0 | 0.30 | 1 | 5 |
| 3 | Odour | Un-Objectionable | Un-Objectionable | UnObjectionable | UnObjectionable |
| 4 | Taste | Agreeable | Agreeable | Agreeable | Agreeable |
| 5 | p ^H | 7.3 | 7.6 | 6.5 - 8.5 | No relaxation |
| 6 | Electrical Conductivity at 25°C (Micro Mhos/cm) | 1267 | 130 | .... | .... |
| 7 | TDS(mg/L),max | 825 | 85 | 500 | 2000 |
| Chemical parameters (mg/L) | | | | | |
| 1 | Alkalinity(as CaCO ₃),phenolphthalein ,max | Nil | Nil | ... | ... |
| 2 | Total alkalinity (as CaCO ₃),max | 352 | 26 | 200 | 600 |
| 3 | Total hardness (as CaCO ₃),max | 360 | 13 | 200 | 600 |
| 4 | Calcium hardness (as CaCO ₃),max | 232 | 9 | .... | ..... |
| 5 | Magnesium hardness (as CaCO ₃),max | 128 | 4 | .... | ..... |
| 6 | Calcium (as Ca),max | 92.8 | 3.6 | 75 | 200 |
| 7 | Magnesium (as Mg),max | 31.2 | 0.9 | 30 | 100 |
| 8 | Ammonical Nitrogen,max | Nil | Nil | .... | .... |
| 9 | Nitrite(as N),max | 0.5 | Nil | .... | .... |
| 10 | Nitrate(as N),max | 8.2 | 0.4 | 45 | No relaxation |
| 11 | Sulphate (as SO ₄),max | 10 | 2 | 200 | 400 |
| 12 | Chloride(as Cl),max | 112 | 16 | 250 | 1000 |
| 13 | Fluoride(as F),max | 1.30 | 0.20 | 1.0 | 1.5 |
| 14 | Iron (as Fe),max | Nil | Nil | 0.3 | No relaxation |

Remarks: The sample with lab Ref No: 8163 is physico chemically unsatisfactory as total hardness & fluoride values are above desirable limit. Presence of Nitrites indicates microbial activity.

The sample with lab Ref No: 8166 is physico chemically satisfactory.

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