

**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:** Orchids The School, Sy.No:493/A1, Manneguda,  
Turkayamzal (V), Abdullapurmet (M) Rangareddy  
District.

**2. Collected by:** Mujahed Ali Khan Farooqui

**3. Collected on :** 06-04-2026

**4.Received on:** 06-04-2026

| Lab.<br>Ref. No. | Source              | Exact location   | Residual<br>Chlorine<br>mg<br>per liter                                             | Total<br>coliform<br>bacteria<br>(MPN<br>Index)<br>per 100ml | Faecal<br>coliform<br>bacteria<br>per<br>100ml | Esch.<br>coli per<br>100ml | Result       |
|------------------|---------------------|------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------|----------------------------|--------------|
| 6376             | R.O water           | Direct R.O water | ....                                                                                | Nil                                                          | ...                                            | ...                        | Satisfactory |
| 6377             | R.O water<br>(TPC ) | Direct R.O water | Total Aerobic Bacterial Plate Count for 24<br>hrs at 37 <sup>0</sup> c = 1 CFU / ml |                                                              |                                                |                            | Satisfactory |

  
Dy. Chief Water Analyst

| GOVERNMENT OF TELANGANA                                                               |                                                                                     |                    |                                                     |                                                        |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------|--------------------------------------------------------|
| DEPARTMENT OF WATER AND WASTE WATER EXAMINATION                                       |                                                                                     |                    |                                                     |                                                        |
| Directorate of I.P.M,P.H.Labs, Food (H) Administration, Narayanaguda, Hyderabad – 29. |                                                                                     |                    |                                                     |                                                        |
| REPORT OF PHYSICO CHEMICAL ANALYSIS OF WATER                                          |                                                                                     |                    |                                                     |                                                        |
| Sample From                                                                           | Orchids The School,                                                                 |                    | Collected by                                        | Mujahed Ali Khan Farooqui                              |
| Address                                                                               | Sy.No:493/A1, Manneguda, Turkayamzal (V),<br>Abdullapurmet (M) Rangareddy District. |                    | Collected on                                        | 06-04-2026                                             |
|                                                                                       |                                                                                     |                    | Received on                                         | 06-04-2026                                             |
| District                                                                              | Ranga Reddy                                                                         |                    | Sample volume                                       | 2 ltr                                                  |
| State                                                                                 | TS                                                                                  |                    | Sample ID                                           | 6378                                                   |
| Source profile                                                                        | R.O water                                                                           |                    | Drinking Water -Specification As per IS 10500 :2012 |                                                        |
| S.No                                                                                  | Parameter                                                                           | Source / Sample ID | Requirement (Acceptable)                            | Permissible limit in the absence of alternative source |
|                                                                                       |                                                                                     | R.O water / 6378   |                                                     |                                                        |
| Physical parameters                                                                   |                                                                                     |                    |                                                     |                                                        |
| 1                                                                                     | colour(Hazen),max                                                                   | <5                 | 5                                                   | 15                                                     |
| 2                                                                                     | Turbidity (NTU),max                                                                 | 0.05               | 1                                                   | 5                                                      |
| 3                                                                                     | Odour                                                                               | UnObjectionable    | UnObjectionable                                     | UnObjectionable                                        |
| 4                                                                                     | Taste                                                                               | Agreeable          | Agreeable                                           | Agreeable                                              |
| 5                                                                                     | p <sup>H</sup>                                                                      | 6.8                | 6.5 - 8.5                                           | No relaxation                                          |
| 6                                                                                     | Electrical Conductivity at 25°C (Micro Mhos/cm)                                     | 171                | ....                                                | ....                                                   |
| 7                                                                                     | TDS(mg/L),max                                                                       | 112                | 500                                                 | 2000                                                   |
| Chemical parameters (mg/L)                                                            |                                                                                     |                    |                                                     |                                                        |
| 1                                                                                     | Alkalinity(as CaCO <sub>3</sub> ),phenolphthalein ,max                              | Nil                | ...                                                 | ...                                                    |
| 2                                                                                     | Total alkalinity (as CaCO <sub>3</sub> ),max                                        | 20                 | 200                                                 | 600                                                    |
| 3                                                                                     | Total hardness (as CaCO <sub>3</sub> ),max                                          | 54                 | 200                                                 | 600                                                    |
| 4                                                                                     | Calcium hardness (as CaCO <sub>3</sub> ),max                                        | 24                 | ....                                                | .....                                                  |
| 5                                                                                     | Magnesium hardness (as CaCO <sub>3</sub> ),max                                      | 30                 | ....                                                | .....                                                  |
| 6                                                                                     | Calcium (as Ca),max                                                                 | 9.6                | 75                                                  | 200                                                    |
| 7                                                                                     | Magnesium (as Mg),max                                                               | 7.32               | 30                                                  | 100                                                    |
| 8                                                                                     | Ammonical Nitrogen,max                                                              | Nil                |                                                     | ....                                                   |
| 9                                                                                     | Nitrite(as N ),max                                                                  | Nil                | ....                                                | ....                                                   |
| 10                                                                                    | Nitrate(as N),max                                                                   | 0.1                | 45                                                  | No relaxation                                          |
| 11                                                                                    | Sulphate (as SO <sub>4</sub> ),max                                                  | 1                  | 200                                                 |                                                        |
| 12                                                                                    | Chloride(as Cl),max                                                                 | 32                 | 250                                                 | 1000                                                   |
| 13                                                                                    | Fluoride(as F),max                                                                  | 0.10               | 1.0                                                 | 1.5                                                    |

**Remarks:** Water sample was submitted by the party and not collected by laboratory personnel. Hence the results pertain only to the sample as received. Laboratory doesn't take resposiiblity for the source , representativeness (or) integrity of the sample .

  
 Dy.Chief Water Analyst