

TEST REPORT																
Government of Telangana																
District Level Water Quality Monitoring Laboratory, Jangaon																
Mission Bhagiratha (Rural Water Supply & Sanitation Department) Jangaon Dist.																
Report on Chemical Analysis of Water (Drinking)																
(General Physico-Chemical Parameters)																
Collection Of Sample. School principal																
Date of Sample submission : 05.05.2025																
Sl. No	District	Mandal	Grampanchayat/Habitation	Source Type	Sample location	Turbidity	pH	Total Dissolved Solids*	Total Alkalinity as CaCO ₃	Total Hardness as CaCO ₃	Iron as Fe	Chloride as Cl	Fluoride as F	Nitrate as NO ₃	Sulphate as SO ₄	Remarks
Units of measurement																
BIS 10500-2012 Permissible limits																
1	Jangaon	Jangaon	Jangaon	PWS	Geethanjali School Shameerpet road	0.2	7.74	684	72	600	0.06	99	1.1	0.9	34.2	Satisfactory

Microbiologist
MB(Intra) Sub Division
Jangaon.

Chemist
MB(Intra) Sub Division
Jangaon.

Principal
Geethanjali High School
Shameerpet, Jangaon

Interpretations:

Less pH leads

Less pH in water leads to acidic nature, which is not suitable for drinking

High pH leads:

High pH in water leads to basic nature, which is not suitable for drinking. Neutral pH water is safe for drinking

EX-Cess TDS Leads:

High TDS readings are often caused by sodium, chlorides, and potassium, which have little to no short-term effects on human health. However, other toxic compounds such as lead, arsenic, and nitrate can cause TDS levels to spike. If a water system has water with TDS readings over 1,000 ppm, it is considered unsafe for consumption.

If a water sample contains less than 100 ppm, it is generally considered to have a low TDS content. However, the classification of TDS levels depends on the context and the nature of the dissolved solids. If the water contains beneficial minerals, 150-250 ppm can be an excellent TDS range for optimal health.

**Less TDS Leads:
Ex-Cess Flouride Leads:**

Excess Flouride in water leads to Dental, Skeletal and Non- Skeletal Flourosis

Less Flouride Leads:

Low Flouride levels leads to calcium deficiency and tooth decay in children.

Ex-Cess Iron Leads:

However, excessive iron in drinking water may have negative effects. Iron overload can lead to hemochromatosis — which can cause damage to the liver, heart, and pancreas.

Less Iron Leads:

Low iron levels leads to anemia in humans

Ex-Cess Nitrate Leads:

Nitrate is one of the most common groundwater contaminants in rural areas. It is regulated in drinking water primarily because excess levels can cause methemoglobinemia, or "blue baby" disease.

Less Nitrate Leads:

Low level of Nitrate may not effects any Health Hazords

Ex-Cess Sulphate Leads:

Other problems caused by sulfate. Sulfate gives a bitter or medicinal taste to water if it exceeds a concentration of 250 mg/l. This may make it unpleasant to drink the water. High sulfate levels may also be corrosive for plumbing, particularly copper piping.

Less Sulphate Leads:

Low level of Sulphate may not effects any Health Hazords

Excess -Hardness Leads:

Hard water can interfere with the action of soaps and detergents and can result in deposits of calcium carbonate, calcium sulphate and magnesium hydroxide (Mg(OH)₂) inside pipes and boilers, causing lower water flows and making for less efficient heating.

Less naturness Leads:

Hard water can interfere with the action of soaps and detergents and can results Low Calium Levels.

EX Cess Calcium Leads:

Lack of sufficient drinking water or consumption of unfiltered water that contains an excessive amount of calcium and magnesium may lead to kidney stones. The formation of kidney stones are based on geographic, environmental and genetic exposure are the most common factors of stone disease.

Less Calcium Leads:

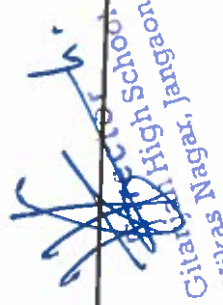
Calcium is a major component of mineralized tissues and is required for normal growth and maintenance of bone. Bone Damages may occur frequently.



..... End of the report

Principal

Anjali High School
Shameerpet, Jangaon


Principal
Anjali High School
Gitar, Nagax, Jangaon