



DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE
REGIONAL PUBLIC HEALTH WATER ANALYSIS LABORATORY, TIRUNELVELI-11

From
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Tirunelveli - 627 011.

To
Nathan Central school,
Anjugramam- Tiruchendhur Main road,
Vairavikinaru vilakku,
Koodangulam
Tirunelveli District -627 106.

R.No: 240/L/2025/M.9/CWA/Tvl., Dated: .03.2025

Sir / Madam,

Sub: Report on Examination of water sample from Nathan
Central School, Anjugramam- Tiruchendhur Main road,
Vairavikinaru vilakku, Koodangulam, Tirunelveli district
collected on 24.03.2025.

A sample of water stated to have been collected on 24.03.2025 from R.O unit outlet tap near Office room Nathan Central School, Anjugramam- Tiruchendhur Main road, Vairavikinaru vilakku, Koodangulam, Tirunelveli district (Source: Bore well) by ThiruMeganathan, correspondent was received at this laboratory on the same day from the addressee to assess its suitability for drinking purpose.

The results of analysis are furnished overleaf.

The sample of water is colorless and clear in physical appearance.

It is of satisfactory bacteriological quality for drinking.

The chemical analysis reveals that it is soft. Though, it is of drinkable chemical quality, the total hardness is only 12 mg/l. The Calcium and Magnesium minerals are almost removed from the water, Calcium and Magnesium are very essential minerals for healthy living of human beings. Consumption of water with such very low content of Calcium and Magnesium minerals for a prolonged period will be deleterious to the health of the consumers.

Hence, it is advised that, the supplier of the R.O. unit should be contacted immediately to set right the R.O. unit in such a way that, the outlet water should contains atleast a minimum content of total hardness (30 mg/l) so as to have some amount of Calcium and Magnesium in the outlet water of R.O. unit, which are very essential for a healthy life of the consumers.

The R.O. unit should be maintained periodically as per the supplier's manual to get hygienically safe water at all times.

Sentham
28.3.2025
Chief Water Analyst,

Regional Public Health Water Analysis
Laboratory, Tirunelveli-11.

Copy to: Lab & File.

DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE					
REGIONAL PUBLIC HEALTH WATER ANALYSIS LABORATORY, TIRUNELVELI-11					
RESULTS OF EXAMINATION OF SAMPLES OF WATER					
Samples from :	Nathan Central School, Anjugramam- Tiruchendhur Main road, Vairavikinaru vilakku, Koodankulam, Tirunelveli district				
Collected by :	Thiru.Meganathan, Correspondent				
Date of collection :	24.03.2025				
Date of Receipt :	24.03.2025				
	M-9				
Source as per label (Bore well)	R.O outlet tap near office room				
Bacteriological Examination					
Plate count per ml.on agar at 37°C	20				
MPN of Coliform bacteria/100 ml	0				
Rapid test for E.Coli-I					
Results of Vibrio test					
Physical Examination					
Colour	Colourless				
Turbidity (NTU)	5				
Smell	None				
Chemical Examination (in mg/l)					
Total Dissolved solids	110				
Carbonate Hardness (as CaCO ₃)	12				
Non-carbonate Hardness(as CaCO ₃)	0				
Total Hardness (as CaCO ₃)	12				
Calcium Hardness (as CaCO ₃)	6				
Magnesium Hardness (as CaCO ₃)	6				
Chloride (as Cl)	26				
Ammoniacal Nitrogen (as N)	-				
Albuminoid Nitrogen (as N)	-				
Oxygen absorbed (Tidys test)	0.08				
Nitrate Nitrogen	0.5				
Acidity/Alkalinity} Phenolphthalein	0				
as CaCO ₃ } Methyl Orange	20				
Fluoride (as F)	0.1				
pH value	6.5				
Total Iron (as Fe)	0.05				
Manganese (as Mn)					
Qualitative Tests:					
Nitrite Nitrogen	Trace				
Sulphate	Trace				
Phosphate	Trace				
Toxic Substance					
Electrical conductivity(Reciprocal megohms per cm at 20°C)	160				
Microscopical Examination	Amorphous Matter				