



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

From
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Tirunelveli-627011.

✓ To
The Principal,
MKVK International School,
Tenkasi - 627 811.

R.No. 500/L/2021/CWA/Tvl/ M.25, Dated: 16.09.2025

Sir,

Sub: Report on examination of water sample from M.K.V.K.
International School, Tenkasi - Tenkasi, Collected on
13.09..2025

A sample of water stated to have been collected on 13.09.2025 from the tap at R.O unit room, M.K.V.K. International School - Tenkasi 1/50 Railway road, Tenkasi district (Source: Bore well) by Thiru.S.Tharmaraj, Manager 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.

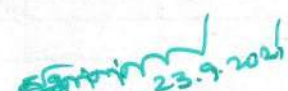
The sample of water is colorless and clear in physical appearance.

It is of satisfactory bacteriological quality for drinking.

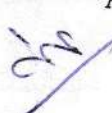
The chemical analysis reveals that it is very soft. The total hardness is only 8mg/l. The calcium and magnesium minerals are almost removed from this water. The calcium and magnesium are very essential minerals for healthy living of human beings. Consumption of such low content of calcium and magnesium water for a prolonged time will be deleterious to the health of the consumers.

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

The RO unit should be maintained periodically as per the suppliers manual to get hygienic safe water at all times.


Chief Water Analyst,
Regional Public Health Water
Analysis Laboratory, Tirunelveli-11.

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REGIONAL PUBLIC HEALTH WATER ANALYSIS LABORATORY, TIRUNELVELI-11
RESULTS OF EXAMINATION OF SAMPLES OF WATER

Samples from :	MKVK INTERNATIONAL SCHOOL , TENKASI.				
Collected by :	Thiru.S.Tharmaraj, Manager.				
Date of collection :	13.09.2025				
Date of Receipt :	13.09.2025				
	M.25				
Source as per label	Water collected from tap at RO unit room (Source: Bore well)				
Bacteriological Examination					
Total 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)	4				
Smell	None				
Chemical Examination (in mg/l)					
Total Dissolved solids	20				
Carbonate Hardness (as CaCO ₃)	6				
Non-carbonate Hardness(as CaCO ₃)	2				
Total Hardness (as CaCO ₃)	8				
Calcium Hardness (as CaCO ₃)	4				
Magnesium Hardness (as CaCO ₃)	4				
Chloride (as Cl)	5				
Ammoniacal Nitrogen (as N)	-				
Albuminoid Nitrogen (as N)	-				
Oxygen absorbed (Tidys test)	0.24				
Nitrate Nitrogen	0.25				
Acidity/Alkalinity} Phenolphthalein	0				
as CaCO ₃ } Methyl Orange	6				
Fluoride (as F)	0.1				
PH value	6				
Total Iron (as Fe)	0				
Manganese (as Mn)	-				
Qualitative Tests:					
Nitrite Nitrogen	Trace				
Sulphate	Trace				
Phosphate	Trace				
Toxic Substance	-				
Electrical conductivity(Reciprocal megohms per cm at 20°C)	30				
Microscopical Examination	Amorphous Matter				