



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

From
Tmt.L.Sujatha, M.Sc., M.A., B.Ed.,
Chief Water Analyst (i/c),
Regional Public Health Water
Analysis Laboratory,
Tirunelveli-627011.

To
Sacred Heart Public School,
R.C.School North street, Panagudy,
Radhapuram Taluk,
Tirunelveli- 627 109.

R.No. 442/L/2020/CWA/Tvl/ M.25, Dated: 12.08.2020.

Sir,

Sub: Report on examination of water sample from Sacred
Heart Public School, Radhapuram Taluk Tirunelveli,
Collected on 29.07.2020.

A sample of water stated to have been collected on 29.07.2020 from the R.O unit outlet (Source: Borewell) near staff room at Sacred Heart Public School, R.C School North street, Panagudy, Tirunelveli District by Thiru.M.Jesu Arul Anandam, correspondent was received at this laboratory on the same day to assess it's suitability for drinking purpose.

The results of analysis are furnished overleaf.

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

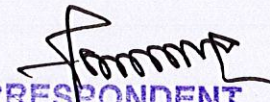
The chemical analysis reveals that, it is soft and less mineralised.

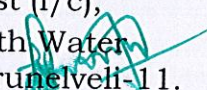
Though it is of usable chemical quality for drinking, the total hardness is only 16mg/l. The Calcium and Magnesium minerals are almost removed from this water, which are very essential for healthy living of human beings. Consumption of such low content of Calcium and Magnesium water for a prolonged time 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 should 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 for a healthy life.

It is of satisfactory bacteriological quality for drinking on this occasion.

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


CORRESPONDENT
SACRED HEART PUBLIC SCHOOL
Copy to: Panagudi
Lab/File. Radhapuram T.K.
Tirunelveli Dt. - 627 109.


Chief Water Analyst (i/c),
Regional Public Health Water
Analysis Laboratory, Tirunelveli-11.
PRINCIPAL
SACRED HEART PUBLIC SCHOOL
Panagudi
Radhapuram T.K.
Tirunelveli Dt. - 627 109.

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

Samples from :	Sacred Heart Public School, R.c. School North Street, Panagudy, Radhapuram Taluk, Tirunelveli District.			
Collected by :	Thiru.M.Jesu Arul Anandam			
Date of collection :	29.07.2020			
Date of Receipt :	27907.202			
	M.25			
Source as per label	R.O unit outlet near staff room (Source: Borewell)			
Bacteriological Examination				
Total count per ml.on agar at 37 ^o 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	60			
Carbonate Hardness (as CaCO ₃)	6			
Non-carbonate Hardness(as CaCO ₃)	0			
Total Hardness (as CaCO ₃)	6			
Calcium Hardness (as CaCO ₃)	6			
Magnesium Hardness (as CaCO ₃)	0			
Chloride (as Cl)	13			
Ammoniacal Nitrogen (as N)	-			
Albuminoid Nitrogen (as N)	-			
Oxygen absorbed (Tidys test)	0.32			
Nitrate Nitrogen	2.0			
Acidity/Alkalinity} Phenolphthalein as CaCO ₃ } Methyl Orange	0 10			
Fluoride (as F)	0			
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 ^o C)	90			
Microscopical Examination	Amorphous Matter			

CORRESPONDENT
SACRED HEART PUBLIC SCHOOL
Panagudi
Radhapuram T.K.
Tirunelveli Dt. - 627 109.

PRINCIPAL
SACRED HEART PUBLIC SCHOOL
Panagudi
Radhapuram T.K.
Tirunelveli Dt. - 627 109.