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

From
Tmt.R.Malarvizhi, M.Sc., M.Ed.,
Chief Water Analyst (i/c),
Regional Public Health Water
Analysis Laboratory,
Tirunelveli-627011.

To
Jay International School,
Nangai Mozhi,
Megnanapuram,
Sathankulam Main Road,
Tiruchendur,
Thoothukudi – 628 210.

R.No. 459/L/2019/CWA/Tvl/M.162, Dated:6.08.2019.

Sir,

Sub: Report on examination of water sample from Jay International School, Megnanapuram, Tiruchendur, Thoothukudi, Collected on 22.07.2019.

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A sample of water stated to have been collected on 22.07.2019 from the R.O unit outlet near office lobby at Jay International School, Nangai Mozhi, Megnanapuram, Tiruchendur(Source: Bore well) by Thiru.Rajesh Kumar, CAO was received at this laboratory on the same day to assess its suitability for drinking purpose.

The results of analysis are furnished overleaf.

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

The Chemical analysis reveals that it is soft and mineralised. Though it is of satisfactory chemical quality for drinking, the total hardness is 20 mg/l. The Calcium and Magnesium are removed from this water. 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.

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 at least a minimum content of total hardness (30 mg/l) so as to have some amount of Calcium and Magnesium for a healthy life.

It is of satisfactory bacteriological quality for drinking.

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

for **Chief Water Analyst (i/c),**
Regional Public Health Water
Analysis Laboratory, Tirunelveli-11.

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DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE	
REGIONAL PUBLIC HEALTH WATER ANALYSIS LABORATORY, TIRUNELVELI-11	
RESULTS OF EXAMINATION OF SAMPLES OF WATER	
Samples from :	Jay International School, Nangai Mozhi, Megnanapuram, Tiruchendur, Thoothukudi (Dt).
Collected by :	Thiru.Rajesh Kumar, CAO.
Date of collection :	22.07.2019.
Date of Receipt :	22.07.2019.
	M.162
Source as per label	RO unit outlet water near office lobby (Source: Bore well)
Bacteriological Examination	
Total count per ml.on agar at 37^0C	30
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	40
Carbonate Hardness (as $CaCO_3$)	20
Non-carbonate Hardness(as $CaCO_3$)	0
Total Hardness (as $CaCO_3$)	20
Calcium Hardness (as $CaCO_3$)	12
Magnesium Hardness (as $CaCO_3$)	8
Chloride (as Cl)	4
Ammoniacal Nitrogen (as N)	-
Albuminoid Nitrogen (as N)	-
Oxygen absorbed (Tidys test)	0.32
Nitrate Nitrogen	0
Acidity/Alkalinity} Phenolphthalein as $CaCO_3$ } Methyl Orange	0 22
Fluoride (as F)	0
PH value	7.2
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 20^0C)	60
Microscopical Examination	Amorphous Matter