



DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE
Regional Public Health Water Analysis Laboratory, Tiruchirappalli-20.

From
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To
The Principal,
Karur Saraswathi Vidhya
Mandhirr School, KSV Nagar,
Thulasikodumbu,
Jegadhabi(P.o),
Karur-639 118.

R.No.102/A3/2026/CWA/TRY/Misc-30 to 31, Dated: 26.02.2026
Sir,

Sub: Report on examination of water samples from Karur
Saraswathi Vidhya Mandhirr School, KSV Nagar,
Thulasikodumbu, Jegadhabi, Karur – Collected
on 09.02.2025.

A sample of water stated to have been collected on 09.02.2026 by C.Ragul, Junior Assistant, from the following sources points located within the premises of Karur Saraswathi Vidhya Mandhirr School, KSV Nagar, Thulasikodumbu, Jegadhabi(P.o), Karur-18. (Source: Borewell) were received at this laboratory on the same day from the assess their suitability for drinking purpose.

- 1.Water from borewell [M-30]
- 2.Water from R.O unit tap [M-31]

The results of analysis are furnished overleaf.

1.Water from borewell [M-30]

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

The Chemical analysis reveals that, it is hard and mineralized with the alkaline nature. However, it is considered as acceptable chemical quality for drinking purposes.

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

2.Water from R.O unit tap [M-31]

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

The chemical analysis reveals that, it is very soft and less mineralized. Even though it is usable chemical quality for drinking, the total hardness is very low with only 12mg/l. The calcium and magnesium elements are almost removed from this water. The calcium and magnesium are very essential minerals for health living of human beings. Consumption of this type water having low content of calcium and magnesium for prolonged time will be deleterious to the health of the consumers including growing children.

Hence, it is advised that, the supplier of the R.O plant should be contacted along with the copy of this analytical report to set right the R.O Plant in such a way so that, the outlet water should contain atleast a minimum content of total hardness of 30mg/l. So as to have some amount of calcium and magnesium in the outlet of R.O Plant, which are very essential for a healthy life.

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

The storage units (Sump/OHT) should be cleaned with strong bleaching powder solution periodically atleast once in a month to ensure hygienic safety of drinking water storage units.

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

for ^{02/01/26}
26/01/26
Chief Water Analyst (i/c),
Regional Public Health Water Analysis
Laboratory, Tiruchirappalli-20.

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1. Lab
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RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: Karur Saraswathi Vidhya Mandhirr School, KSV Nagar, Thulasikodumbu.
Collected by:- C.Ragul, Junior Assistant,

Date of collection	09.02.2026				
Date of Receipt	09.02.2026				
Sample Number	M- 30		M-31		
Source as per label	Water from borewell		Water from R.O unit tap		
Bacteriological Examination					
Total colonies per ml. On agar at 37°C	10		10		
MPN of Coliform bacteria per 100ml.	-0-		-0-		
Nature of Coliform Bacteria Isolated					
Physical Examination					
Colour	Colourless		Colourless		
Turbidity	5		2		
Smell	None		None		
Total solids	1020		60		
Carbonate hardness as CaCO ₃	288		12		
Non-Carbonate hardness as CaCO ₃	0		0		
Total hardness as CaCO ₃	288		12		
Chlorides as Chlorine	208		10		
Ammoniacal nitrogen	--		--		
Albuminoid nitrogen	--		--		
Oxygen absorbed (Tidy's test)	0.24		0.32		
Nitrate -nitrogen	1.0		0		
Acidity/Alkalinity } CaCO ₃ } Phenolphthalein s Methyl Orange	0		0		
	360		18		
Fluoride as Fluorine	0.2		0		
pH Value	7.0		6.5		
Iron as Fe	0.05		0		
Ferrous	--		--		
Manganese as Mn.	--		--		
Nitrite nitrogen	Trace		Trace		
Sulphate	Trace		Trace		
Phosphate	Trace		Trace		
Toxic substance	--		--		
Electrical conductivity (Reciprocal megohms per cm ³ at 20 °C)	1450		90		
Microscopical Examination	Amorphous matter		Amorphous matter		