



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

From
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To
The Chairman,
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Trichy- 620102.
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R.No.508/A3/2024/CWA/TRY/Misc-201, Dated:18.11.2024

Sir,

Sub: Report on examination of water sample from the Mount Litera Zee School, MM Nagar, Vayalur Road, Trichy- 620102 – Collected on 11.11.2024

Ref: Letter dated.07.11.2024 of the Mount Litera Zee School, MM Nagar, Vayalur Road, Trichy- 620102.

A sample of water stated to have been collected on 11.11.2024 from the Mount Litera Zee School, MM Nagar, Vayalur Road, Trichy- 620102 by Thiru.B. Saravana Bhavan, Office Staff was received in this laboratory on the same day to assess its suitability for drinking purpose.

The results of analysis are furnished overleaf.

Water from Mount Litera Zee School Campus (Source: Borewell) [M-201]

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

Chemically, it is of Very Hard in nature and tolerable quality for drinking.

However, Bacteriologically, it is of poor hygienic quality for drinking as evidenced by the presence of coliform group of bacteria.

Hence, the water drawn from the source should be treated with BIS grade bleaching powder (not less than 32% of available chlorine) at a dose of 4gm per 1000 litres of water (or) 20ml of Sodium Hypo Chlorite Solution (4-6% of available chlorine) per 1000 litres of water with 30 minutes contact time and then used for drinking purpose.


18.11.24
Chief Water Analyst,

Regional Public Health Water Analysis
Laboratory, Tiruchirappalli-20.

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RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The Mount Litera Zee School, MM Nagar, Vayalur Road, Trichy- 620102

Collected by:- Thiru.B. Saravana Bhavan, Office Staff

Date of collection	11.11.2024				
Date of Receipt	11.11.2024				
Sample Number	M- 201				
Source as per label [Borewell]	Water from Mount Litera Zee School Campus				
<u>Bacteriological Examination</u>					
Total colonies per ml. On agar at 37°C	1200				
MPN of Coliform bacteria per 100ml.	>1100				
Nature of Coliform Bacteria Isolated	Klebsiella Aerogenes -I				
<u>Physical Examination</u>					
Colour	Colourless				
Turbidity	5				
Smell	None				
Total solids	1040				
Carbonate hardness as CaCO ₃	352				
Non-Carbonate hardness as CaCO ₃	48				
Total hardness as CaCO ₃	400				
Chlorides as Chlorine	280				
Ammoniacal nitrogen	--				
Albuminoid nitrogen	--				
Oxygen absorbed (Tidy's test)	0.24				
Nitrate -nitrogen	0.5				
Acidity/Alkalinity Phenolphthalein sCaCO ₃ Methyl Orange	0				
	352				
Fluoride as Fluorine	0.2				
pH Value	7.3				
Iron as Fe	0.05				
Ferrous	--				
Manganese as Mn.	--				
Nitrite nitrogen	Trace				
Sulphate	Trace				
Phosphate	Trace				
Toxic substance	--				
Electrical conductivity (Reciprocal megohms per cm ³ at 20 C)	1600				
Microscopical Examination	Amorphous matter				