

Telephone: 2501028
Telegram: DOWASI



**DIRECTORATE OF PUBLIC HEALTH AND PREVENTIVE MEDICINE
DEPARTMENT OF WATER AND SEWAGE EXAMINATION**

R.No.1473/C/2018 (936) Misc.745

Dated: 31.12.18

From:

Thiru G. Chandrasekaran, M.Sc, M.Phil,
CHIEF WATER ANALYST,
Chief Water Analysis Laboratory,
King Institute Campus,
Guindy, Chennai - 600 032.

To:

Bharathi Vidyashram,
No.726, Bajanai Koil Street,
Serapanancherry,
Bharathi Nagar,
Padappai - 601 301

Sir,

Subject: Report on examination of water samples - regarding.

A sample of water stated to have been collected on 17.12.2018 by Tmt. Sasikala from a Bore well at the premises of Bharathi Vidyashram, No.726 Bajanai Koil Street, Serapananchery, Padappai was received at this laboratory on the same day from the addressee to assess its suitability for drinking purposes.

The results of analysis are furnished overleaf.

Judged by the results of analysis, the sample of bore well water is colourless and clear in physical appearance.


Chemical analysis reveals that it is highly mineralized and also the alkalinity (660 mg/lit as CaCO_3) and sulphate content (>400 mg/lit) which are all exceeding the maximum permissible limits of 600 mg/lit and 400mg/lit respectively for a drinking water as prescribed by BIS . Hence this Bore well water is UNFIT for drinking purposes.

Bacteriologically also it is of poor quality on this occasion.

Copy to: Lab & File


CHIEF WATER ANALYST




PRINCIPAL
BHARATHI VIDYASHRAM
Serapananchery,
Padappai,
Kanchipuram - 601 301.

RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: Bharathi Vidyashram, No. 726, Bajanai Koil Street, Serapananchery.

Padappai - 601 301.

Collected by: Tmt. Sasikala

		Misc. 745		Maximum permissible limit for drinking water as per BIS 10500/1991
Date of Collection : 17.12.18				
Date of Receipt : 17.12.18				
Source as per label		Bore well at above premises		
Bacteriological Examination	Total colonies per ml on agar at 37 °C	140		20
	MPN of Coliform bacteria per 100 ml	1100		0
	Rapid Test for E. Coli	Citro bacter freundii - II		absent
	Nature of coliform bacteria isolated Results of vibrio test:			
Physical Examination	Colour	Colourless		Colourless
	Turbidity (Units)	4		10
	Smell	None		None
Chemical Examination (in mg/l)	Total Solids	1880		2000
	Carbonate hardness as CaCO ₃	500		-
	Non Carbonate hardness as CaCO ₃	0		-
	Total hardness as CaCO ₃	500		600
	Chloride as Chlorine	42		1000
	Ammoniacal Nitrogen	-		Nil
	Albuminoid Nitrogen	-		Nil
	Oxygen absorbed (Tidy's test)	0.4		1.0
	Nitrate Nitrogen	0.5		10
	Alkalinity } as CaCO ₃ } Phenolphthalein Methyl Orange	0		-
		660		600
	Fluoride as Fluorine	1.5		1.5
	PH	7.5		6.5-8.5
	Iron as Fe Total	0.1		0.3
	Ferrous	Nil		Nil
	Manganese as Mn.	Nil		0.3
	Qualitative			
	Nitrite Nitrogen	Trace		Trace
	Sulphate	Marked		400
	Phosphate	Trace		Trace
Toxic Substances				
Electrical Conductivity (Reciprocal megohms Cm ⁻¹ at 20°C)	2680			
Microscopical Examination	Amorphous matter			

S.ivil
PRINCIPAL
BHARATHI VIDYASHRAM
 Serapananchery,
 Padappai,
 Kanchipuram - 601 301.