Telephone: 22501028.



DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

R.No.1696/C/2019 (958) Misc - 1004 to 1005

Dated: 20.12.2019

From:

Tmt.I.Nuri, M.A. M.Sc.,

CHIEF WATER ANALYSTi/c

Chief Water Analysis Laboratory,

King Institute Campus, Guindy,

Chennai-600 032.

Principal,

To:

Kavi Bharathi Vidyalaya,

No.792/665,

Thiruottriyur High Road,

Chennai - 600 019.

Sir,

Subject: Report on examination of Water samples: - Regarding.

Two samples of water stated to have been collected on 05.02.2019 from the bore well and the RO outlet by Thiru.S.Palani at the premises of Kavi Bharathi Vidyalaya No.792/665 Thiruvottiyur High Road, Chennai-19 were received at this laboratory on the same day from the addressee to assess their suitability for drinking purposes.

The results of analysis are furnished overleaf.

1.Bore well (Misc.1004)

The sample of above stated bore well water is colourless and clear in physical appearance.

Chemically, it is very hard, mineralised and considered as tolerable quality for drinking.

However bacteriologically it is of poor quality for drinking showing the presence of coliform organisms and hence it is advised to chlorinate the water from the well by using 4 grams of bleaching powder or 20ml of 4 to 6 % sodium hypochlorite solution for every 1000 litres of water at sump/OHT (storage unit) with half an hour contact time to ensure hygienic safety at all times and then only used for drinking.

2. R.O. water (Misc 1005)

Judged by the results of analysis, the sample of above R.O water is colourless and clear in physical appearance.

Chemically it is very soft having the total hardness (10mg/l). Calcium and magnesium are almost removed from the water. These elements are essential for healthy living for human beings and setright the total hardness at the minimum of 30mg/l for which the supplier of R.O plants may be contacted along with this analytical report.

Bacteriologically also it is free from coliform organisms.

Copy to : Lab & File

CHIEF WATER ANALYSTI/C

35.12.19

RESILTS OF EXAMINATION OF SAMPLES OF WATER

From: Kavi Bharathi Vidyalaya, 792/665 Thiruvottiyur High Road, Chennai - 600 019.

Collected by: Thiru.S.Palani Misc.1004 Misc.1005

Date of Collection: 05.12.2019 Date of Receipt: 05.12.2019 Source as per label		Bore well at above premises	R.O at above premises	Maximum permissible limit for drinking water as per BIS 10500/1991
-	Total colonies per ml on agar at 37°C	120	0	20
Aogica	MPN of Coliform bacteria per 100 ml.	210	0	0
Bacteriological Examination	Nature of coliform bacteria isolated. Results of vibrio test	Citrobactor Freundii - II	vestettical es efent	absent
g	Colour	Colourless	Colourless	Colourless
Physical Examination	Turbidity (Units)	5	2	10
Enar	Smell	None	None	None
	Total dissolved Solids®	1260	50	2000
	Carbonate hardness as CaCo ₃	360	10	33. (15. 1)
	Non- Carbonate hardness as CaCo ₃	80	0	-
	Total hardness as CaCo ₃	440	10	600
	Chloride as Chlorine	420	9	1000
	Ammoniacal nitrogen		-	Nil
	Albuminoid nitrogen			Nil
	Oxygen absorbed (Tidy's test)	1.60	0.16	1.0
#	Nitrate-nitrogen	6.0	0.5	10
Chemical Examination (in mg/1)	Alkalinity 7 Phenolphthalein	0	0	- III
	as CaCO ₃ Methyl Orange	360	14	600
	Fluoride as Fluorine	0.4	Nil	1.5
		7.0	6.5	6.5-8.5
	PH. of the Man diam (then	0.05	Nil	0.3
	Iron as Fe Total	Nil	Nil	Nil
	Ferrous	Nil	Nil	0.3
colos	Manganese as Mn.	regular selection	mento ciment ley cit	122,011
	Qualitative- Nitrite nitrogen	Present	Trace	Trace
	Sulphate	Trace	Trace	400
	Phosphate	Trace	Trace	Trace
	Toxic substances	of only lingingse	ana eginisa anta jili sot s	Parkin - Impend
	Electrical conductivity (Reciprocal megnohms Cm ² at 20°C)	1800	70	-
	Microscopical Examination	Monas, Coleps and	Amorphous matter	1001

Microscopical Examination

Monas, Coleps and Amorphous matter