



INDUSTRIAL CONSULTANCY SERVICES
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA
Jawaharlal Nehru Technological University Kakinada
KAKINADA – 533 003 A.P., INDIA

ANNEXURE – 1

Name of the Work : analysis of Water Samples collected and supplied by

**Sri Chaitanya High School (EM), D.No: 89-17-21, Sai Nagar, Morampudi,
 Rajamahendravaram Post, East Godavari District, Andhra Pradesh.**

(All the Units, unless otherwise specified, are in mg/l. 1ppm = 1 mg/l)

Standards mentioned are Drinking Water Standards as per IS 10500-2012

S.No.	Parameter	Value	Desirable Standards	Maximum Permissible in the absence of alternate sources
PHYSICAL				
1.	Appearance	Normal	--	--
2.	Turbidity (NTU)	Nil	1	5
3.	Colour Hazens	5	5	15
4.	Taste	Agreeable	Agreeable	--
5.	Odour (TON)	Agreeable	Agreeable	--
CHEMICAL				
6.	pH at 25° C	7.05	6.5-8.5	6.5-8.5
7.	E.C. (micromho/cm) at 20°C	300	--	--
8.	Suspended Solids (SS)	Nil	--	--
9.	Total Dissolved Solids (TDS)	195	500	2000
10.	P- Alkalinity as CaCO ₃	Nil	--	--
11.	M- Alkalinity as CaCO ₃	102	200	600
12.	Total Hardness as CaCO ₃	94	200	600
13.	Calcium as Ca	33	75	200
14.	Magnesium as Mg	3	30	100
15.	Carbonate as CO ₃	Nil	--	--
16.	Bicarbonate as HCO ₃	122	--	--
17.	Chloride as Cl ⁻	68	250	1000
18.	Free Residual Chlorine	Nil	0.2	--
19.	Sulphate as SO ₄	22	200	400
MICRO BIOLOGICAL				
20.	MPN in 100 ml	Nil	Not detectable in 100ml of sample	
21.	Faecal Streptococci	Nil	Not detectable in 100ml of sample	

(Analysis: The water is suitable for drinking and all other domestic purposes with reference to Desirable Standards.)

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