

Environmental Monitoring Compile Report

NMDC Ltd., Dep. - 14/11C

Table No. 16 Abstract of Water Quality Data

Location: Potable Water at Kirandul Township, In any Residential quarter, Farthest from WTP (WQ-9)

No.	Parameter	Unit	Winter	Summer	Monsoon	Post Monsoon	IS: 10500-2012	
							Desirable	Permissible
1	Colour	Hazen	20.02.2020	25.05.19	20.08.19	15.11.19		
2	Odour	-	<5	<5	<5	<1.0	5	15
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Unobjectionable	Agreeable
4	Turbidity	NTU	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	pH	-	1.2	<1	1	1.2	5	5
6	Total Hardness as CaCO <sub>3</sub>	mg/l	7.31	6.4	6.6	7.19	6.5-8.5	6.5-8.5
7	Calcium as Ca	mg/l	30	19	30	26	200	600
8	Magnesium as Mg	mg/l	7.2	7.4	10	5.6	75	200
9	Copper as Cu	mg/l	2.9	0.6	1.2	2.9	30	100
10	Iron as Fe	mg/l	<0.1	<0.03	<0.05	<0.1	0.05	1.5
11	Manganese as Mn	mg/l	0.15	<0.06	0.25	0.16	0.3	0.3
12	Chlorides as Cl	mg/l	<0.1	<0.02	<0.1	<0.1	0.1	0.3
13	Sulphates as SO <sub>4</sub>	mg/l	20	20	15	10	250	1000
14	Nitrate as NO <sub>3</sub>	mg/l	9.5	9.0	7	7.0	200	400
15	Fluoride as F	mg/l	1.1	Nil	1.0	0.67	45	45
16	Phenols as C <sub>6</sub> H <sub>5</sub> OH	mg/l	1.0	1.1	1.0	1.0	1.0	1.5
17	Mercury as Hg	mg/l	Nil	Nil	Nil	Nil	0.001	0.002
18	Cadmium as Cd	mg/l	<0.001	Nil	Nil	<0.001	0.001	0.001
19	Selenium as Se	mg/l	<0.001	<0.02	<0.003	<0.001	0.003	0.003
20	Arsenic as As	mg/l	<0.01	Nil	<0.01	<0.01	0.01	0.01
21	Cyanide as CN	mg/l	<0.01	<0.005	<0.01	<0.01	0.01	0.05
22	Lead as Pb	mg/l	Nil	Nil	Nil	Nil	0.05	0.05
23	Zinc as Zn	mg/l	<0.01	<0.01	<0.01	<0.1	0.01	0.01
24	Chromium as Cr+6	mg/l	<0.05	<0.01	0.48	<0.1	5	15
25	Mineral Oil	mg/l	<0.05	<0.06	<0.05	<0.05	0.05	0.05
26	Residual Free chlorine	mg/l	Nil	Nil	Nil	Nil	0.5	0.5
27	Total coliforms	MPN/100ml	Nil	Nil	Nil	Nil	0.2	1.0
28	E-coli	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
29	Total Dissolved solids	mg/l	Absent	Absent	Absent	Absent	Absent	Absent
			78	54	72	38	500	2000

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 records  
 By  
 प्रचार्य/Principal  
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