

District/Sub Division Laboratory
Public Health Engineering Department
Division Quardian

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ANALYSIS REPORT

Type of sample: Drinking water/R.O. water
 PARTICULARS OF SENDER: Principal Central School B.S.F. Academy Tekanpur
 PARTICULARS OF SAMPLE: Collected/ Not collected by PHED

Sample No.	Place of collection and details of sample	Date
01	<u>Kandiyar Vidyalaya B.S.F. Academy Tekanpur, Quardian</u>	<u>21-5-2019</u>

PARTICULARS TO BE FILLED IN THE LABORATORY

Date of Receipt: 21/5/2019 Time of Receipt: 3:00 P.M.
 Lab reference No: K.V. B.S.F. - 1 Tested on 22/5/2019

NATURE OF STUDY - CHEMICAL & BACTERIOLOGICAL ANALYSIS

Characteristics	Unit	As Per BIS -10500:2012				Results	
		For Drinking Water		Sample 1	Sample 2		Sample 3
		Requirement (Desirable Limit)	Permissible Limit in the absence of Alternate Source				
PHYSICAL TESTS							
1	Temperature						

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Characteristics	Unit	As Per BIS -10500:2012 For Drinking Water		Results					
		Requirement (Desirable Limit)	Permissible Limit in the absence of Alternate Source	Sample 1	Sample 2	Sample 3	Sample 4		
2	Turbidity	NTU	1.0	5-0	2				
3	Colour	Hazen Units	5	15	1				
4	Odour		Unobjectionable	Objectionable	unobjectionable				
CHEMICAL TESTS									
5	pH	pH scale	6.5 to 8.5	No Relaxation	8.38				
6	Total Hardness as CaCO ₃	mg/l	200	600	250				
7	Calcium as Ca	mg/l	75	200	66				
	Magnesium as Mg	mg/l	30	100	24				
8	Total Alkalinity as CaCO ₃	Mg/l	200	600	334				
9	Chloride as Cl	Mg/l	250	1000	98				
10	Nitrate as NO ₃	Mg/l	45	45	04				
14	Total Dissolved Solids	Mg/l	500	2000	492.7				
15	Iron	Mg/l	0.3	0.3	0.10				
16	Sulphate as SO ₄	Mg/l	200	400	-				
17	Fluoride as F	Mg/l	1.0	1.5	0.50				
18	Manganese as Mn	Mg/l	0.1	0.3	NIL				

(15)

Characteristics	UNIT	As Per BIS-10500/2012 For Drinking Water		Results			
		Requirement (Desirable Limit)	Permissible Limit in the absence of Alternate Source	Sample 1	Sample 2	Sample 3	Sample 4
19 Residual Chlorine as Cl ₂	Mg/l	0.2	1.0	NIL			
BACTERIOLOGICAL TESTS							
20 M.P.N of Coliform	Per 100 ml	Nil		NIL			
21 Faecal Coliform	Per 100 ml			NIL			

NOTES: * The figures indicated under the column "Requirement (Desirable Limit)" the limits upto which water is generally acceptable to the consumers. Figures in excess of those mentioned under "Requirement (Desirable Limit)" the water not acceptable, but still may be tolerated in the absence of an alternative and better source but upto the limits indicated under column "Permissible Limit in the absence of Alternate Source" above which the source will have to be rejected (Guideline values for Drinking Water as Per BIS-10500)

In All water intended for drinking E.Coli or thermo tolerant Coliform bacteria must not be detectable in any 100 ml. sample
Treated water entering in / in distribution system E.Coli or thermo tolerant Coliform bacteria Must not be detectable in any 100 ml sample. In case of large supplies, where sufficient samples are examined, must not be present in 95% of samples taken through out any 12 months period

signature of Analyst

As per B.I.S norms sample is potable

Remarks if any

24/5/19
 Lab Incharge incharge
 District Water Testing Laboratory
 P.H.E. Division, Gwalior (M.P.)
 District/Sub Division laboratory
 Public Health Engineering Department

No. 62 / Lab /PHED/

Date 24/5/19