

REPORT OF PHYSICAL CHEMICAL & BACTERIOLOGICAL EXAMINATION OF WATER SAMPLE

Lab Ref No
36

Source: HT Mandi Karamand Campus

Name of water supply scheme

Source

Where collected

Date and Time of Collection

Date and time of arrival in laboratory

Date and Time of commencing examination

School Building

28/11/18, 10:10 am

28/11/18, 2:15 Pm

28/11/18, 2:30 Pm

PHYSICAL EXAMINATION

Parameter	Acceptable Limit	Result
Colour (Hazan scale units)	5	nil
Taste and odour (Qualitative)	Agreeable	nil
Turbidity (NTU)	5 NTU	1.2 NTU
Conductivity MS/TDS	-	186.9 μ sec/cm PPM
P _H	6.5 to 8.5	7.34
Temperature (°C)	-	27.2 °C
Dissolved Oxygen as O ₂	-	6.77
TSS	-	0.01 PPM

CHEMICAL EXAMINATION (RESULT IN MG/L)

Parameter	Acceptable Limit	Result	Parameter	Acceptable Limit	Result
Alkalinity	-	-	Major Ions	-	-
Phen Alkalinity as CaCO ₃	-	0 mg/L	Ca (Calcium)	75	16.0 mg/L
M.O. Alkalinity as CaCO ₃	-	12.0 mg/L	Mg (Magnesium)	30	3.9 mg/L
Total Alkalinity as CaCO ₃	200	12.0 mg/L	Na (Sodium)	-	3.1 mg/L
Hardness	-	-	K (Potassium)	-	0.1 mg/L
Calcium Hardness CaCO ₃	-	4.0 mg/L	Cl (Chlorides)	250	17.5 mg/L
Total Hardness CaCO ₃	230	5.6 mg/L	SO ₄ (Sulfate)	200	3.92 mg/L
Org Matter	-	-	CO ₃ (Carbonate)	-	0.0 mg/L
BOD	-	nil	HCO ₃ (Bicarbonate)	-	10.0 mg/L
COD	-	nil	(Fe) (Iron)	0.3	0.0 mg/L
Nutrients	-	-	Other Inorganics	-	-
Ammonia (NH ₃)	-	Not Conducted	Si (Silicon)	-	N/C
Nitrate (No ₃) (No ₂ +No ₃)	45mg	N/C	F (Fluoride)	1.0	0.0 mg/L
Nitrite (No ₂)	10.2	-	B (Boron)	0.5	-
Total P	-	-	Cl ₂ Free residual chlorine as	0.2 to 0.3	0.1 PPM

BACTERIOLOGICAL EXAMINATION

MPN of Coliforms	nil	/100 ml
MPN of Faecal Coliforms	nil	/100 ml

(Coliforms count should be zero in any sample of 100 ml from water entering the distribution system)

BIOLOGICAL EXAMINATION

Coliforms-A

OPINION

Residual chlorine is unacceptable in its limit.

Principal
Mind Tree HT Mandi Campus School
Mandi, Dist. Mandi (H.P.)

For The Learning Curve Education Trust
Assistant Chemist

Managing Trustee