

Himachal Pradesh
Jal Shakti Vibhag

No. EE/JSDD/LAB/WTA :- 9296

Date:-- 13/12/2024

To.

Mewoen Tsuglag Petoen School
C/O Sherab Gastel Lobling (TTS) Thehr Manjhi Khad,
P.O. Khanyara.- 176218(H.P) INDIA.

Subject :- Examination of Water sample.

Reference :- Your Letter No. Nil Dated- 02/12/2024.

The water sample sent vide your letter under reference for Physical, Chemical & Bacteriological examination, has been examined in Public Health Laboratory Dharamshala. Results, thereof, are sent herewith for your Information.

DA/One Report.


Executive Engineer,
Jal Shakti Division,
Dharamshala.



**HIMACHAL PRADESH JAL SHAKTI VIBHAG
PUBLIC HEALTH LABORATORY, DHARAMSHALA**

REPORT ON PHYSICAL CHEMICAL & BACTERIOLOGICAL EXAMINATION OF WATER SAMPLE.

Sender:

Mewoen Tsuglag Petoen School
C/O Sherab Gastel Lobling (TTS) Thehr Manjhi Khad,
P.O. Khanyara- 176218(H.P) INDIA.
(Water sample collected & forwarded by sender.)

Name of water supply scheme	:-	WSS Dharamshala Town.
Source	:-	Churran Khad.
Where collected	:-	From School Tap Near Dining Hall at School.
Date and time of collection	:-	03-12-2024 at 02:30 P.M.
Date and time of arrival at Laboratory	:-	03-12-2024 at 03:20 P.M.
Date and time of commencing examination	:-	---do---

PHYSICAL EXAMINATION

Parameter	Acceptable limit	Result
Appearance	--	Clear
Colour (Hazen scale units)	5	Normal
Taste and odour (Qualitative)	--	Nothing objectionable
Turbidity (NTU)	1.0	0.45
Conductivity (micro Siemens / cm)	--	20
pH	6.5-8.5	6.5
Temperature (0°C)	--	---

CHEMICAL EXAMINATION (Results in mg / l)


Parameter	Acceptable limit	Result	Parameter	Acceptable limit	Result
Free carbon dioxide as CO ₂	--	86	Iron as Fe	0.3	Nil
P. alkalinity as CaCO ₃	--	Nil	Manganese as Mn	0.1	Nil
M. O. alkalinity as CaCO ₃	200	18	Calcium as Ca	75	5.6
Total hardness as CaCO ₃	200	57	Magnesium as Mg	30	10.4
Carbonate hardness CaCO ₃	--	18	Total solids dried at 105 ⁰ C	--	--
Non-carbonate hardness as CaCO ₃	--	39	Total residual chlorine as Cl ₂	0.2	Nil
Free and saline ammonia as N	--	0.1	Free residual chlorine as Cl ₂	--	--
Albumenoid ammonia as N	--	--	Zinc as Zn	5.0	--
Nitrite as N	--	Nil	Copper as Cu	0.05	--
Nitrate as N	10-16	2	Chromium hexavalent as Cr	0.05	--
Dissolved oxygen as O ₂	--	--	Arsenic as As	0.01	N.D
Oxygen abd (370C, 3 mts) as O ₂	--	--	Cadmium as Cd	0.01	--
Oxygen abd (370C, 3 hours) as O ₂	--	--	TDS	500	10
Chloride as Cl ₂	250	3.5			
Sulphate as SO ₄	200	4			
Fluoride as F	1.0	0.2			

BACTERIOLOGICAL EXAMINATION

MPN of coliforms : (At 37°C for 48 hours in MacConkey broth) Nil/ 100ml
 MPN of E.coli or Thermo Tolerant coliforms : (At 44°C for 24 hours in BGBL broth/ Tryptone Water). Nil/ 100ml
 (Coliform count should be zero in any sample of 100ml from water entering the distribution system)

REMARKS :-

Date :- 13/12/2024.


Assistant Chemist

