

Himachal Pradesh
Jal Shakti Vibhag

No. EE/JSDD/LAB/WTZ :-

Date:--

To.

HIGHLAND PUBLIC SCHOOL
Vill. Ruhru, P.O. Sudher,
Dharamshala(H.P.)-176215.

Subject :- Examination of water sample.

Reference :- Your Letter No. Nil Dated- 29/02/2024.

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.

Neelprab
Principal
Highland Public School
Vill. Ruhru, P.O. Sudher
Dharamshala (H.P.) - 176215

Executive Engineer,
Jal Shakti Division,
Dharamshala.

V. K. Singh

Lab. Ref. No.

Z/PC 353/B-2150

HIMACHAL PRADESH JAL SHAKTI VIBHAG
PUBLIC HEALTH LABORATORY, DHARAMSHALA

REPORT ON PHYSICAL CHEMICAL & BACTERIOLOGICAL EXAMINATION OF WATER SAMPLE.

Sender:

HIGHLAND PUBLIC SCHOOL, Vill. Ruhru, P.O. Sudher,

Dharamshala(H.P.)-176215.

(Water sample collected & forwarded by sender.)

Name of water supply scheme :-
Source :- Borewell(At the end of Play Ground of School).
Where collected :- From Source.
Date and time of collection :- 27-02-2024 at 10:45 a.m.
Date and time of arrival at Laboratory :- 27-02-2024 at 12:00 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	1.2
Conductivity (micro Siemens / cm)	--	284
pH	6.5-8.5	6.64
Temperature (0°C)	---	---

CHEMICAL EXAMINATION (Results in mg /l)

Parameter	Acceptable limit	Result	Parameter	Acceptable limit	Result
Free carbon dioxide as CO ₂	--	51	Iron as Fe	0.3	0.1
P. alkalinity as CaCO ₃	--	Nil	Manganese as Mn	0.1	Nil
M. O. alkalinity as CaCO ₃	200	170	Calcium as Ca	75	53.6
Total hardness as CaCO ₃	200	160	Magnesium as Mg	30	6.3
Carbonate hardness CaCO ₃	--	160	Total solids dried at 105°C	--	--
Non-carbonate hardness as CaCO ₃	--	10	Total residual chlorine as Cl ₂	0.2	--
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	3.2	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	146
Chloride as Cl	250	11			
Sulphate as SO ₄	200	10			
Fluoride as F	1.0	0.1			

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 BG18 broth/ Tryptone Water). Nil/ 100ml

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

REMARKS :-

Date :-

06/03/2024.

[Signature]
Manager
Highland Public School
Vill. Ruhru, P.O. Sudher
Dharamshala (H.P.) - 176215

[Signature]
Principal
Highland Public School
Vill. Ruhru, P.O. Sudher
Dharamshala (H.P.) - 176215

Assistant Chemist