

Himachal Pradesh  
Jal Shakti Vibhag

No. EE/JSDD/LAB/WTZ :- 595

Date:- 19/04/2023

To.


HIGHLAND PUBLIC SCHOOL,  
Village Ruhru, P.O. Sudher,  
Dharamshala, H.P-176217.

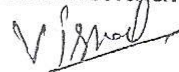
Subject :- Examination of water sample.

Reference :- Your Letter No.HPS/IPH/WS-110423. Dated- 11/04/2023.

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.



Lab. Ref. No.

Z/PC-04/B-15.

HIMACHAL PRADESH JAL SHAKTI VIBHAG  
PUBLIC HEALTH LABORATORY, DHARAMSHALA

REPORT ON PHYSICAL CHEMICAL & BACTERIOLOGICAL EXAMINATION OF WATER SAMPLE.  
HIGHLAND PUBLIC SCHOOL, Village Ruhru, P.O. Sudher,  
Dharamshala, H.P-176217.

Sender:

( Water sample collected & forwarded by sender. )

Name of water supply scheme :-  
Source :- BOREWELL  
Where collected :- From Source.  
Date and time of collection :- 11-04-2023 at 09:45 a.m.  
Date and time of arrival at Laboratory :- 11-04-2023 at 10:30 a.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.	1.3
Conductivity ( micro Siemens / cm )	--	311
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 <sub>2</sub>	--	1	Iron as Fe	0.3	0.2
P. alkalinity as CaCO <sub>3</sub>	--	Nil	Manganese as Mn	0.1	Nil
M. O. alkalinity as CaCO <sub>3</sub>	200	62	Calcium as Ca	75	48
Total hardness as CaCO <sub>3</sub>	200	220	Magnesium as Mg	30	24.3
Carbonate hardness CaCO <sub>3</sub>	---	62	Total solids dried at 105 <sup>o</sup> C	--	--
Non-carbonate hardness as CaCO <sub>3</sub>	--	158	Total residual chlorine as Cl <sub>2</sub>	0.2	--
Free and saline ammonia as N	--	Nil	Free residual chlorine as Cl <sub>2</sub>	--	--
Albumenoid ammonia as N	--	--	Zinc as Zn	5.0.	--
Nitrite as N	--	0.1	Copper as Cu	0.05	--
Nitrate as N	10.16	Nil	Chromium hexavalent as Cr	0.05	--
Dissolved oxygen as O <sub>2</sub>	--	--	Arsenic as As	0.01	N.D.
Oxygen abd. ( 370C, 3 mts. ) as O <sub>2</sub>	--	--	Cadmium as Cd	0.01	--
Oxygen abd. ( 370C, 3 hours. ) as O <sub>2</sub>	--	--	TDS	500	160
Chloride as Cl	250	9.5			
Sulphate as SO <sub>4</sub>	200	10			
Fluoride as F	1.0.	0.1			

**BACTERIOLOGICAL EXAMINATION**

MPN of coliforms : ( At 37°C for 48 hours in MacConkey broth )

MPN of E.coli or Thermo Tolerant coliforms : (At 44°C for 24 hours in BGBL broth/ Tryptone Water).

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

Nil/ 100ml

Nil/ 100ml

REMARKS :-


Date :- 19/04/2023.

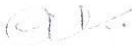


*[Signature]*  
Assistant Chemist

## TO WHOM IT MAY CONCERN

The Health & Sanitary condition at Highland Public School Village Ruhru, P.O. Sudher Teshil Dharamshala Distt. Kangra are satisfactory.

  
Health Sub Centre  
SUDHER (Kangra)

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