Himachal Pradesh
Jal Shakti Vibhag

No. EE/JSDD/LAB/ WTB :- 15602 **Date:--** 15/1/26

To.

Highland Public School,
Village-Ruhru,Sudher,Dharamshala-176217,
Himachal Pradesh, India.

Subject :- Examination of Water sample.

Reference : - YourLetterNo. HPS/IPH/WS-070126 Dated-07/01/2026.

The water sample sent vide your letter under reference for Physical, Chemical and 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.

PART-A

Test Report No.
B/PC-391/B-794.

HIMACHAL PRADESH JAL SHAKTI VIBHAG
PUBLIC HEALTH LABORATORY DHARAMSHALA

Test Report

TC-16089

REPORT ON PHYSICAL & CHEMICAL EXAMINATION OF WATER SAMPLE.

Sender: Highland Public School,Village-Ruhru,Sudher,Dharamshala-176217,Himachal Pradesh,India.

(Water sample collected & forwarded by sender.)

Name of water supply scheme	:-	.....
Source	:-	Borewell at the end ofHighland Public School's Ground at Ruhru.
Where collected	:-	From Source.
Date and time of collection	:-	08-01-2026 at 10:30 A.M.
Date and time of arrival at Laboratory	:-	08-01-2026 at 11:40 A.M.
Date and time of commencing examination	:-	---do---
Date of compeletion of analysis	:-	13-01-2026
Location of performance	:-	Chemical Lab

PHYSICAL EXAMINATION

Sr. No.	Parameter	Standard method followed for testing	Units	Results	Requirement as per IS 10500-2012	
					Desirable Limit	Permissible Limit in absence of alternate source
1	Colour	IS 3025 (Part 4): 2021, Platinum Cobalt (visual comparison Method)	Hazen Scale	5	5	15
2	Taste	IS 3025 (Part 7): 2017 RA 2022 Threshold Method	Qualitative	Agreeable	Agreeable	Agreeable
3	Odour	IS 3025 (Part 5): 2018,RA 2022 Qualitative Method	Qualitative	Agreeable	Agreeable	Agreeable
4	Turbidity	IS 3025 (Part 10): 2023, Nephelometric Method	NTU	0.25	1	5
5	pH at 25°C	IS 3025 (Part 11): 2022 (ISO 10523:2008),Electrometric Method		6.8	6.5	8.5

CHEMICAL EXAMINATION

Sr. No.	Parameter	Standard method followed for testing	Units	Results	Requirement as per IS 10500-2012	
					Desirable Limit	Permissible Limit in absence of alternate source
6	Total Alkainity expressed as $CaCO_3$	IS 3025 (Part 23): 2023, Indicator Method(Total Alkalinity)	mg/l	124	200	600
7	Total Hardness expressed as $CaCO_3$	IS 3025 (Part 21): 2009 RA 2019, EDTA Titration Method	mg/l	176	200	600
8	Chloride as Cl	IS 3025 (Part 32): 1988 RA 2019, Argentometric Method	mg/l	9	250	1000
9	Calcium as Ca	IS 3025 (Part 40): 2024, EDTA Titration Method	mg/l	50.4	75	200
10	Magnesium as Mg	IS 3025 (Part 46): 2023, Volumetric Method using EDTA	mg/l	12.1	30	100
11	Total Dissolved Solids at 180°± 2	IS 3025 (Part 16): 2023, Gravimetric Method	mg/l	160	500	2000

Note: 1. The report shell not be produced partly or fully without approval of signatory authority for legal purpose.
2 The result refer only to tested samples and parameters tested.
3 Sample will be stored for period of 5 days from the date of issue of report.

Date of Issue Report 13-01-2025

JAL SHAKTI VIBHAG * Dharamshala (H.P.) 176215 * Public Health Laboratory

Authorized Signatory

Vishal Singh
Technical Manager

PART-B

REPORT ON PHYSICAL CHEMICAL & BACTERIOLOGICAL EXAMINATION OF WATER SAMPLE.

(Not Under NABL Scope)

Sender: Highland Public School,Village-Ruhru,Sudher,Dharamshala-176217,Himachal Pradesh,India.
(Water sample collected & forwarded by sender.)

Test Report No.
B/PC-391/B-794.

PHYSICAL EXAMINATION

Sr. No.	Parameter	Standard method followed for testing	Units	Results	Requirement as per IS 10500-2012	
					Desirable Limit	Permissible Limit in absence of alternate source
1	Conductivity	Conductivity Meter	µS/cm	325	500	2000
2	Temperature (at Lab)	---	°C	--	--	--

CHEMICAL EXAMINATION

Sr. No.	Parameter	Standard method followed for testing	Units	Results	Requirement as per IS 10500-2012	
					Desirable Limit	Permissible Limit in absence of alternate source
3	Free carbon dioxide as CO_2	Titration Method	mg/l	100	--	--
4	Carbonate Hardness as $CaCO_3$	Calculation Method	mg/l	124	--	--
5	Non-Carbonate Hardness as $CaCO_3$	Calculation Method	mg/l	52	--	--
6	Free & Saline Ammonia as N	Nesselerisation Method	mg/l	0.1	0.5	No relaxation
7	Nitrite as N	Diazotization Method	mg/l	Nil	75	200
8	Nitrate as N	Phenol disulphonic Method	mg/l	0.8	10	No relaxation
9	Fluoride as F	Alizarin red S Method	mg/l	0.4	1.0	1.5
10	Iron as Fe	Phenanthraline Method	mg/l	Nil	1.0	No relaxation
11	Total Residual chlorine as Cl_2	Calorimetric(DPD) Method/Iodometric Method	mg/l	--	0.2	1.0
12	Arsenic as As	Arsenic Kit Method	mg/l	N.D.	0.01	No relaxation
13	Manganese as Mn	Manganese Kit Method	mg/l	Nil	0.1	0.3
14	Sulphate as SO_4	Barium Chloride/ Turbidity Metric Method	mg/l	--	200	400

BACTERIOLOGICAL EXAMINATION

Sr. No.	Parameter	Standard method followed for testing	Units	Results	Requirement as per IS 10500-2012	
					Desirable Limit	Permissible Limit in absence of alternate source
15	MPN of coliforms	MPN Method (At 37°C for 48 hours in MacConkey broth)	MPN/ 100ml	Nil/ 100ml	Nil/ 100ml	No relaxation
16	MPN of E.coli or Thermo Tolerant coliforms	MPN Method (At 44°C for 24 hours in BGBL broth/ Tryptone Water).	MPN/ 100ml	Nil/ 100ml	Nil/ 100ml	No relaxation

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

Date of Issue Report 13-01-2025

JAL SHAKTI VIBHAG * Public Health Laboratory * Dharamshala (H.P.) 176215

Authorized Signatory

Vishal Singh
Technical Manager