

SUB DIVISION WATER TESTING LABORATORY

Public Health Engineering Department, Sagar (M.P.)

No.

/Lab Khurai

Dated : 19/1/24

ANALYSIS REPORT

1. PARTICULARS

A. Name and Address

To, Principal
New Ashwini International School
Sagar

Place of collection :

Collected By :

Date :

B. Reference No.

(ii)

(iii)

(iv)

(v)

3. PARTICULARS TO BE FILLED IN THE LABORATORY

A. Date and Time of Receipt

18/1/24

(B) TESTED ON

B. Laboratory Reference No.

(D) CHEMICAL / BACTERIOLOGICAL

NATURE OF STUDY

S. No.	CHARACTERISTICS	UNITS	Limits as per manual on Water Supply and Treatment prepared & published by CPHEEO New Delhi		RESULTS				
			ACCEPTABLE	CAUSE FOR REJECTION	I	II	III	IV	V
	PHYSICAL								
1.	Temperature	$^{\circ}\text{C}$	—	—	18.2				
2.	Turbidity	JTU	2.5	10	1.0				
3.	Colour	Pt. Cobalt Scale	5.0	25	clear				
4.	Taste and Odour	—	Unobjectionable	Unobjectionable	—				
	CHEMICAL								
5.	pH	pH Scale	7 to 8.5	6.5 to 9.2	7.1				
6.	Conductivity	Micromhos/cm	—	—	—				
7.	Alkalinity	mg/l	200	600	128				
	(a) Phenolphthaleine	—	—	—	—				
	(b) Total Free CO_2	—	—	—	—				
8.	Chlorides	mg/l	200	1000	95				
9.	Nitrites	"	—	—	—				
10.	Nitrates	"	45	100	45				
11.	Total Hardness (as CaCO_3)	"	200	600	360				
12.	Calcium (as Ca)	"	75	200	58				
13.	Magnesium (as Mg)	"	>30	150	12.6				
14.	Total Solids		—	—	—				
	(a) Dissolved	mg/L	500	1500	516.1				
	(b) Suspended	—"	—	—	—				
15.	Iron (as Fe)	—"	0.1	1.0	0.12				
16.	Manganese (as Mn)	—"	0.05	0.5	0				
17.	Fluorides (as F)	—"	1.0	1.5	0.14				
18.	Sulphaes (as SO_4)	—"	200	400	17.2				
19.	Dissolved Oxygen	"	—	—	—				
20.	C.O.D.	"	10	—	—				
21.	B.O.D.	mg/L	6	—	—				
22.	Coagulant Dose	"	—	—	—				
23.	Residual Cl_2	"	—	—	—				

Note :

The figures indicated under column "acceptable" in the tabel given are the limits upto which the water is generally acceptable to the consumers.

Figures in excess of those mentioned under "acceptable" render the water not acceptable but still may be tolerated in the absence of alternative and better source but upto the limits indicated

BACTERIOLOGICAL TEST

Details of Sample Date: 12/11/21 NEW Adhyayan International School Kurur	Coliform organisms at 37°C (MPN/100 ml)	Faecal - Coliforms at 44°C (MPN/100 ml)
Special Test : (i) (ii) (iii)	Remarks if any : Tested Physical, chemical & Bacteriological Parameters within are Normal limits -	J. Swami CHEMIST Sub Division Water Testing Laboratory Khurai, Distt.-Sagar (M.P.)

CHARACTERISTICS	UNITS	LIMITS as prescribed by CPHEED New Delhi
1. Temperature	°C	10 to 25
2. Turbidity	NTU	5.0
3. Colour	PC Cobalt Scale	5.0
4. Alkalinity	mg/l	200
5. Chlorides	mg/l	250
6. Nitrites	mg/l	0.5
7. Total Hardness (as CaCO ₃)	mg/l	200
8. Calcium (as Ca)	mg/l	75
9. Magnesium (as Mg)	mg/l	30
10. Total Solids	mg/l	1500
11. Dissolved Solids	mg/l	500

- CAUTION :**
- The physical and chemical properties of the water change drastically with respect to time. Therefore ensure that the sample reaches the laboratory within the maximum prescribed time limit of 72 hrs. for potable water. Samples should be collected in containers of Pyrex glass or other inert material like polythene. The min. quantity of the sample required for such tests is 2.5 ltrs.
 - For Bacteriological test glass bottles provided with ground glass stopper having an over lapping rim should be used. The stopper and the neck of the bottle should be protected by brown paper. The sample should be collected with utmost care to ensure that no contamination occurs at the time of collection or prior to examination. The samples should reach to laboratory immediately after collection and got examined within 24 hours of collection. During transit, the temp. of the sample should be maintained as close as possible to that of the source at the time of sampling. If not analysed within 24 hours, the samples must be preserved in ice. No sample is fit for bacteriological analysis after 72 hours.