

# SUB DIVISION WATER TESTING LABORATORY

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

No.

Lab Sub. division Khurai

Dated : 21/02/2025

## ANALYSIS REPORT

### 1. PARTICULARS

### 2. PARTICULARS OF SAMPLES :

#### A. Name and Address

To, principal

Place of collection :

Collected By :

Date :

New Adhyayan International School

(i) New Adhyayan International

(ii) School Kusa Bina D.W. Testing

#### B. Reference No.

(iii)

(iv)

(v)

### 3. PARTICULARS TO BE FILLED IN THE LABORATORY

#### A. Date and Time of Receipt 21/02/2025 (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	$^{\circ}\text{C}$	—	—	20				
2.	Turbidity	JTU	2.5	10	2.1				
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	7.5				
6.	Conductivity	Micromhos/cm	—	—	—				
7.	Alkalinity	mg/l	200	600	160				
	(a) Phenolphthaline	—	—	—	—				
	(b) Total Free $\text{CO}_2$	—	—	—	—				
8.	Chlorides	mg/l	200	1000	100				
9.	Nitrites	"	—	—	—				
10.	Nitrates	"	45	100	45				
11.	Total Hardness (as $\text{CaCO}_3$ )	"	200	600	340				
12.	Calcium (as Ca)	"	75	200	44				
13.	Magnesium (as Mg)	"	>30	150	—				
14.	Total Solids		—	—	—				
	(a) Dissolved	mg/L	500	1500	560				
	(b) Suspended	—	—	—	—				
15.	Iron (as Fe)	—	0.1	1.0	0.16				
16.	Manganese (as Mn)	—	0.05	0.5	0				
17.	Fluorides (as F)	—	1.0	1.5	0.20				
18.	Sulphates (as $\text{SO}_4$ )	—	200	400	12.2				
19.	Dissolved Oxygen	"	—	—	—				
20.	C.O.D.	"	10	—	—				
21.	B.O.D.	mg/L	6	—	—				
22.	Coagulant Dose	"	—	—	—				
23.	Residual $\text{Cl}_2$	"	—	—	—				

### Note :

The figures indicated under column "acceptable" in the table 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 under column "Cause for rejection" above beyond which the water will have to be rejected.

Anam

B. Prasad

New Adhyayan International School, Kusa Bina, Teh Bina



# BACTERIOLOGICAL TEST

Details of Sample	New Adhyayan International School Bina. D.W. Testing.			
Coliform organisms at 37 <sup>0</sup> c (MPN/100 ml)	—	—	—	—
Faecal - Coliforms at 44 <sup>0</sup> c (MPN/100 ml) mgHFC Agar 41.5 <sup>0</sup> c	0	—	—	—

Special Test :

(I)

(II)

(III)

Remarks if any : Tested physical, chemical & Bacteriological Parameters within are Normal limits.

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Khurai (M.P.)

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Khurai, Distt.-Sagar (M.P.)

## 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.

*Anamika*  
MANAGER  
New Adhyayan International School

*Principals*  
New Adhyayan International School  
Kurawa, Teh. Bina