

# DISTRICT WATER TESTING LABORATORY

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

No. \_\_\_\_\_

/Lab Sagar

## ANALYSIS REPORT

Dated : 23/4/21

### 2. PARTICULARS OF SAMPLES :

1. PARTICULARS

A. Name and Address

महालक्ष्मी वार्ड  
ग्राम 3/19/33

Place of collection :

(i) डे-प्लेय विद्यालय 3/3 सागर

Collected By : School People

Date :

Reference No. \_\_\_\_\_

3. PARTICULARS TO BE FILLED IN THE LABORATORY

A. Date and Time of Receipt : 23/4/21 (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
<b>PHYSICAL</b>									
1.	Temperature	°C	—	—	13				
2.	Turbidity	JTU	2.5	10	1.4				
3.	Colour	Pt. Cobalt Scale	5.0	25	—				
4.	Taste and Odour	—	Unobjectionable	Unobjectionable	—				
<b>CHEMICAL</b>									
5.	pH	pH Scale	7 to 8.5	6.5 to 9.2	7.2				
6.	Conductivity	Micromhos/cm	—	—	—				
7.	Alkalinity	mg/l	200	600	148				
	(a) Phenolphthaline	—	—	—	—				
	(b) Total Free CO <sub>2</sub>	—	—	—	—				
8.	Chlorides	mg/l	200	1000	95				
9.	Nitrites	"	—	—	—				
10.	Nitrates	"	45	195	52				
11.	Total Hardness (as CaCO <sub>3</sub> )	"	200	600	242				
12.	Calcium (as Ca)	"	75	200	180 × 0.4 = 72				
13.	Magnesium (as Mg)	"	>30	150	62 × 0.24 = 14.88				
14.	Total Solids	—	—	—	—				
	(a) Dissolved	mg/L	500	1500	496.1				
	(b) Suspended	—	—	—	—				
15.	Iron (as Fe)	—	0.1	1.0	0.24				
16.	Manganese (as Mn)	—	0.05	0.5	0				
17.	Fluorides (as F)	—	1.0	1.5	0.16				
18.	Sulphaes (as SO <sub>4</sub> )	—	200	400	17.4				
19.	Dissolved Oxygen	"	—	—	—				
20.	C.O.D.	—	10	—	—				
21.	B.O.D.	mg/L	6	—	—				
22.	Coagulant Dose	"	—	—	—				
23.	Residual Cl <sub>2</sub>	"	—	—	—				

**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 under column "Cause for rejection" above, beyond which the supply will have to be rejected.



# BACTERIOLOGICAL TEST

Details of Sample K.63 Sagar	T.W. 15/11/22	2 15/11/22	2 15/11/22
Coliform organisms at 37 <sup>0</sup> c (MPN/100 ml)	0	0	0
Faecal - Coliforms at 44 <sup>0</sup> c (MPN/100 ml)	0	0	0

Special Test :

- (i)
- (ii)
- (iii)

Remarks if any :

Tested Physical, chemical & Bacteriological parameters within the normal limits.

Sagar

CHEMIST

District Water Testing Laboratory

Sagar (M.P.)

**CAUTION :**

1. 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.
2. 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