

**PUBLIC HEALTH ENGINEERING DEPARTMENT SUB DIVISION NISARPUR**

Type Of sample : **WATER SAMPLE**

PARTICULARS OF SENDER :- Principal Eklavya school Pithampur, Block Dahi

PARTICULARS OF SAMPLE :- **Collected by PHED**

**PARTICULARS TO BE FILLED IN THE LABORATORY**

Date of Receipt :- **11-12-2024** Time **4.00 .PM** Date of Analysis:- **12/12/2024**

Lab reference M R No. **DATE ...** Tested on - ..... **12-12-2024**

**NATURE OF STUDY – CHEMICAL & BACTERIOLOGICAL ANALYSIS**

S.N.	Characteristics	Unit	AS Per BIS -		Results						
			Requirement (Desirable)	Permissible limit in the absence of Alternate source	1 Boys hostel Dugwell	2.G type Bhavan tubewell	3.School Bhavan Dugwell	4	5	6	
1	Temperature	°C			25 °c	25 °c	25 °c				
2	Turbidity	NTU	1	5	0.6	0.3	0.7				
3	Colour	Hazen Unit	5	15	0	0	0				
4	Odour			agreeable							

**CHEMICAL TESTS**

S.N.	Characteristic	Unit	Requirement	Permissible Limit	1 Boys hostel Dugwell	2.G type Bhavan tubewell	3.School Bhavan Dugwell	4	5	6
5	pH	pH Scale	6.5 to 8.5	No Relaxation	7.74	7.6	7.57			
6	Total Hardness as CaCo <sub>3</sub>	Mg/l	200	600	306	388	404			
7	Calcium as Ca	Mg/l	75	200	69.6	72.4	74.2			
	Magnesium as Mg	Mg/l	30	100	31.6	46	52.3			
8	Total Alkalinity as CaCo <sub>3</sub>	Mg/l	200	600	260	320	245			
9	Chloride as Cl	Mg/l	250	1000	256	204	274			
10	Nitrate as NO <sub>3</sub>	Mg/l	45	45	5	0	10			
11	Total Dissolved Solids	Mg/l	500	2000	640	631	696			
12	Iron	Mg/l	1	1	0	0	0			
13	Sulphate as SO <sub>4</sub>	Mg/l	75	200	25	70	22			
14	Fluoride as F	Mg/l	1	1.5	0.5	0.3	0.4			
15	Manganese as Mn	Mg/l	0.1	0.3	0	0	0			
16	Residual Chlorine Cl <sub>2</sub>	Mg/l	0.2	1	0.2	0.1	0.2			

**BACTERIOLOGICAL TESTS**

17	Total Coli form	Per 100 ml	0	0						
18	Faecal Coli form	Per 100 ml	0	0						

Note:- The figures indicated under the column "Requirement (Desirable Limit)" The limits unto which water is generally acceptable to the consumers, Figures in excess of those mentioned under "Requirement (Desirable Limit)" the water not acceptable, but still may be tolerated in the absence of an alternative and better source but up to limits indicated under column "permissible limit in the absence of alternate source" above which the source will have to be rejected (Guideline values for Drinking water as per BIS 10500)

Remarks if any - All paramiter are within permissible limit.

Signature of Analyst

Lab incharge  
P.H.E. Sub Dn. Nisarapur

Assistant Engineer  
P.H.E. Sub Dn. Nisarapur