



District Water Testing Laboratory
Public Health Engineering Department, Division Ambikapur
Near Marine Drive Talab, Ambikapur, Distt. Surguja (C.G.)

TC No.11141

Email:-eeamb-phe-cg@nic.in

Test Report (Drinking Water)

Report No. :- 03	Discipline:- Chemical Testing	Group:- Drinking Water	TC -11141	Temperature:- 28.4 °C Humidity:- 53%
Senders Name & Address :- CARMEL SCHOOL AMBIKAPUR	Senders Letter No./Date	-	Sampled by	School
	Sample Collection Date	22.04.2024	Sampling Plan & Procedure	Note done by lab staff
	DL Receipt No.	-	DL Receipt Date	22.04.2024
	Date of Analysis Started	22.04.2024	Date of Analysis Completed	24.04.2024

Sample Details

S.N.	Sample I.D.	District / Block	City / Village	Habitation	Location/Source ID/GPS Identification
1.	DL/PHED/AMB-153	Ambikapur	Ambikapur	Carmel Scool (Bore well water)	Carmel School , Ambikapur
2.					

Details of parameters their Test method units and specification as per IS/APHA

S. N.	Parameters	Test method IS:3025/APHA 23rd ed. Method	Unit	As per IS-10500-2012 Drinking Water		Result of S.No.				
				Acceptabl e Limit	Permissibl e Limit	01	02	03	04	05
(1)	(2)	(3)	(4)	(5)	(6)	-	-	-	-	-
1	Turbidity	APHA23rd edition-2130-Turbidity Method B	NTU	1	5	0.61	-	-	-	-
2	Colour	APHA23rd edition-2120-Colour Method B(Platinum Cobalt Visual Comparison)	CU	5	15	2.0	-	-	-	-
3	Odour	IS:3025(Part 5)		Agree	Agree	Agree	-	-	-	-
4	Taste	IS:3025(Part 8)		Agree	Agree	Agree	-	-	-	-
5	PH @25°	APHA23rd edition-4500-H+Method B	PH scale	6.5-8.5	6.5-8.5	6.51	-	-	-	-
6	Alkalinity as CaCO ₃	APHA 23rd edition-2320-Alkalinity Method B (Titration Method)	mg/l.	200	600	95.0	-	-	-	-
7	TDS	APHA 23rd edition-2540-TDS Method C(Dried at 180 Degree Celsius)	mg/l.	500	2000	333.0	-	-	-	-
8	Chloride as Cl	APHA23rd edition-4500-Cl Method B(Argentometric Method)	mg/l.	250	1000	150.0	-	-	-	-
9	Total Hardness as Ca CO ₃	APHA23rd edition-2340-Hardness Method C(EDTA method)	mg/l.	200	600	148	-	-	-	-
10	Calcium as Ca ⁺⁺	APHA23rd edition-3500-Ca method B(EDTA Method)	mg/l.	75	200	36.4	-	-	-	-
11	Magnesium as Mg ⁺⁺	APHA23rd edition-3500-Mg Method B(By Calculation)	mg/l.	30	100	13.85	-	-	-	-

Remark:-

- The report should not be produced partly or full without approval signatory authority of legal purpose.
- It is recommended that acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under the "permissible" limit in the absence of alternate source in column 7 above which the sources will have to be rejected.
- The results refer only to tested samples and parameters.
- Samples will be stored for a period of 10 days from date of issue of report.
- This Lab does not hold any responsibility for variation in results for samples kept on hold for wants of clarification.

**** End Of Report****

(K.K. Sinha)
Quality Manager
 Report Reviewed & Authorised by
 District Public Health Engineering Officer (C.G.)
 PHED, Ambikapur, Surguja (C.G.)

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2.					
3.					
4.					

Details of parameters their Test method units and specification as per IS/APHA

S. N.	Parameters	Test method IS:3025/APHA 23rd ed.		Unit	As per IS-10500-2012 Drinking Water		Result of S.No.				
		Method	Part No.		Acceptable Limit	Permissible Limit	1	2	3	4	5
(1)	(2)	(3)	(4)	(5)	(6)	(7)					
1	Spe. Conductivity @25 °C	IS:3025	Part-14	µS/cm	-	-	520.31				
2	Nitrate as NO ₃	APHA 23rd ed.	Part -2120B	Mg/l	45	45	N.D.				
3	Iron as Fe ⁺⁺	APHA 23rd ed.	Part -05	Mg/l	0.1	1.0	N.D.				
4	Fluoride as F	APHA 23rd ed.	Part- 7/8	Mg/l	1.0	1.5	0.18				
5	Residual Chlorine	-	-	Mg/l	0.2	1.0	N.D.				
6	Sulphate(as SO ₄)	-	-	Mg/l	200	400	46.0				
7	Bacteriological	H ₂ S(Vials Kits Analy.)	(24 hrs/48 hrs)	24 Hrs	-	-	Absent-	-			
				48 Hrs	-	-	Absent-	-			

Remark:- +

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KK Sinha
Chemist/Lab Incharge
 District Water Testing Laboratory
 P.H.E.D. Ambikapur, Distt. Surguja(C.G.)
 Water Testing Laboratory
 P.H.E. Sub Division
 Ambikapur