



भारत सरकार / Government of India
 अखिल भारतीय स्वास्थ्य विज्ञान एवं जन स्वास्थ्य संस्थान / All India Institute of Hygiene & Public Health
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 आरोग्य अभियांत्रिकी विभाग / Department of Sanitary Engineering

Chemical Analysis Report of Drinking Water

Lab No: Date & Time of Collection: 30/6/26
 Sample Received from: K.V. Bander
 Location: Tap water
 Source:

	Sl No	Parameters	Result	Acceptable Limit	Permissible Limit
PHYSICAL	1.	pH	<u>7.6</u>	6.5- 8.5	No relaxation
	2.	Electrical Conductivity (mhos/cm)	<u>469</u>	200 – 1000 (As per EPA)	---
	3.	Turbidity (NTU)	<u>Nil</u>	1	5
	4.	Total Dissolved Solid. mg/l	<u>—</u>	500	2000
GENERAL Parameters for Undesirable Substances in Excess amounts	5.	Total Hardness (As CaCO ₃) mg/l	→ <u>212</u>	200	600
	6.	Total Alkalinity (As CaCO ₃) mg/l	→ <u>310</u>	200	600
	7.	Chloride (As Cl) mg/l	→ <u>46</u>	250	1000
	8.	Iron (As Fe) mg/l	→ <u>BDL</u>	1.0	No relaxation
	9.	Aluminium (As Al) mg/l		0.01	0.05
	10.	Sulphate (As SO ₄) mg/l		200	400
	11.	Nitrate (As NO ₃) mg/l		45	No relaxation
	12.	Residual Chlorine mg/l		0.2	1
	13.	Copper (As Cu) mg/l			
	14.	Calcium Hardness mg/l		75	200
TOXIC Substances	15.	Magnesium Hardness mg/l		30	100
	16.	Zinc (As Zn) mg/l		5	15
	17.	Fluoride (As F) mg/l		1.0	1.5
	18.	Arsenic (As As) mg/l		0.01	No relaxation

❖ **BDL:** Below Detection Limit.

❖ Recommended that the Accepted Limit is to be implemented. Value in excess of those mentioned under 'Acceptable' render the water not suitable, but still may be tolerated up to the limits under 'permissible limit' in the 'absence of alternate source', above which the sources will have to be rejected.

❖ Samples were collected / not collected by the Department. Sample bottle received in sealed / unsealed condition.

❖ Report prepared as per ISO 10500:2012.

Signature
 (Professor & Head of the Dept.)