



Aaptadi - NeD

Government of Nepal
Ministry of Infrastructure Development
Department of Water Supply and Sewerage Management
Water Supply and Sewerage Management Office
Water Quality Testing Laboratory
Bharatpur, Chitwan

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WATER QUALITY TEST REPORT

Name of Client:- **Bharatpur Water Supply Management Board**

Sample Code:- WL-453/82-83

Sampled By:- Client

Source of Sample:- New well

Date of Collection:- 2083-03-24

Date of Completion:- 2083-03-32

Location:- Bharatpur-02, Chitwan

Type of Sample:- Drinking water

A. Compulsory Parameter

S.N	Category	Parameters	Observed Values	Maximum Concentration Limit	Analyzed Methods	Remarks
1	Physical Parameters	Turbidity (NTU)	1.8	5	Nephelometric	NHBGV
2		pH	6.7	6.5 - 8.5	Electrometric	NHBGV
3		Color (TCU)	-	5	Visual Comparison Method	NHBGV
4		Taste and Odor	-	Non-objective	-	NHBGV
5		Electrical Conductivity ($\mu\text{S}/\text{cm}$)	258	1500	Instrumental	NHBGV
6	Chemical Parameters	Iron (mg/L)	<0.1	0.3 (3)	Phenanthroline method	NHBGV
7		Manganese (mg/L)	<0.1	0.2	Persulfate method	NHBGV
8		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator	HBGV
9		Fluoride (mg/L)	0.2	0.5-1.5*	SPADNS Colorimetric	HBGV
10		Ammonia (mg/L)	0.06	1.5	Nesslerization	NHBGV
11		Chloride (mg/L)	-	250	Argentometric Titration	NHBGV
12		Sulphate (mg/L)	-	250	Turbidimetric Method	NHBGV
13		Nitrate (mg/L)	3	50	UV Spectrophotometric Screening	HBGV
14		Copper (mg/L)	-	1	Instrumental	NHBGV
15		Zinc (mg/L)	-	3	Instrumental	NHBGV
16		Aluminium (mg/L)	-	0.2	Instrumental	NHBGV
17		Total Hardness (mg/L as CaCO_3)	126	500	EDTA Titrimetric	NHBGV
18		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator	HBGV
19	Microbiological Parameters	E.Coli (CFU/100 ml)	0	0	Membrane Filtration	HBGV

Note: -

* These values show lower and upper limits.

() Values in parentheses refer the acceptable values only when an alternative is not available.

The entire test was conducted as per the National Drinking Water Quality Guideline, 2079BS

HBGV- Health Based Guideline Value, NHBGV- Non- Health Based Guideline Value

TNTC- Too Numerous To Count, ND- Not Detected

The analysis and results presented in this report are solely based on the sample received from the client.

Analyzed By:

Approved By:
कार्यालय प्रमुख