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नेपाल सरकार
खानेपानी मन्त्रालय
खानेपानी तथा ढल व्यवस्थापन विभाग
संघीय खानेपानी तथा ढल व्यवस्थापन आयोजना
भरतपुर, चितवन

पत्र संख्या : ०६९/०८०
चलानी नं. : २१६०

मिति: २०७९/०९/२२

श्री खानेपानी तथा सरसफाइ डिभिजन नं.१
हेटौडा, मकवानपुर ।

विषय : खानेपानीको नमूना परीक्षण प्रतिबेदन पठाइएको ।

प्रस्तुत बिषयमा तंहा कार्यालयको अनुरोध बमोजिम यस पानी परीक्षण प्रयोगशाला भरतपुरबाट माडी नगरपालिका भित्र संचालित बिभिन्न खानेपानी योजनाहरुको खानेपानी नमूना परीक्षण प्रतिबेदन थान ७ सात यसै साथ संलग्न गरि पठाएको ब्यहोरा अनुरोध छ ।

योगेन्द्र नारायण देव
केमिष्ट



Government of Nepal
Ministry of Water Supply
Department of Water Supply and Sewerage Management
Federal Water Supply and Sewerage Management Project
Water Quality Testing Laboratory
Bharatpur, Chitawan

WATER QUALITY TEST REPORT

(पानी परीक्षण घुम्टीसेवा)

Name of Client:- **Gardi Water Supply and Sanitation Users Association**

Sample Code:- M-01/079-80

Sampled By:- Client

Source of Sample:- Deep Boring (Office Boring)

Type of Sample: Drinking Water

Location:- Madi Nagarpalika-1, Chitwan

Date of Collection:- 2079/09/18

Date of Completion:- 2079/09/22

S.No.	Category	Parameters	Observed Values	NDWQS, 2079 BS	Analyzed Methods
1	Physical	Turbidity (NTU)	8.3	5	Nephelometric
2		Temp. °C	-	-	Thermometric
3		pH	7.7	6.5 - 8.5 *	Electrometric
4		Taste and Odor	-	Non-objectionable	-
5		TDS (mg/L)	326	1000	Instrumental
6		Electrical Conductivity (µs/cm)	490	1500	Instrumental
7	Chemical	Iron (mg/L)	0.42	0.3 (3)	Phenanthroline method
8		Manganese (mg/L)	<0.1	0.2	Persulfate method
9		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator
10		Ammonia (mg/L)	<0.1	1.5	Nesslerization
11		Nitrate (mg/L)	3.0	50	UV Spectrophotometric Screening
12		Fluoride (mg/L)	-	0.5-1.5*	SPADNS Colourimetric
13		Chloride (mg/L)	-	250	Argentometric Titration
14		Total Hardness (mg/L as CaCO ₃)	215	500	EDTA Titrimetric
15		Calcium Hardness (mg/L)	114	200	EDTA Titrimetric
16		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator
17	Microbiological	Faecal coliform <i>E.coli</i> (CFU/100 ml)	0	0	Membrane Filtration

* These values show lower and upper limits.

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

Note: - The entire test was conducted as per the National Drinking Water Quality Standard 2079 BS

TNTC: Too Numerous to Count

The Result Valid for submitted sample only

Analyzed By:

Chemist



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WATER QUALITY TEST REPORT
(पानी परीक्षण घुम्टीसेवा)

Name of Client:- **Gardi Water Supply and Sanitation Users Association**

Sample Code:- M-02/079-80

Sampled By:- Client

Source of Sample:- Deep Boring(Consumer tap)

Type of Sample: Drinking Water

Location:- Madi Nagarpalika-1 ,Chitwan

Date of Collection:- 2079/09/18

Date of Completion:- 2079/09/22

S.No.	Category	Parameters	Observed Values	NDWQS, 2079 BS	Analyzed Methods
1	Physical	Turbidity (NTU)	8.31	5	Nephelometric
2		Temp. °c	-	-	Thermometric
3		pH	7.5	6.5 - 8.5 *	Electrometric
4		Taste and Odor	-	Non-objectionable	-
5		TDS (mg/L)	328	1000	Instrumental
6		Electrical Conductivity (µs/cm)	492	1500	Instrumental
7	Chemical	Iron (mg/L)	0.41	0.3 (3)	Phenanthroline method
8		Manganese (mg/L)	<0.1	0.2	Persulfate method
9		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator
10		Ammonia (mg/L)	<0.1	1.5	Nesslerization
11		Nitrate (mg/L)	3.0	50	UV Spectrophotometric Screening
12		Fluoride (mg/L)	-	0.5-1.5*	SPADNS Colourimetric
13		Chloride (mg/L)	-	250	Argentometric Titration
14		Total Hardness (mg/L as CaCO ₃)	215	500	EDTA Titrimetric
15		Calcium Hardness (mg/L)	114	200	EDTA Titrimetric
16		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator
17	Microbiological	Faecal coliform <i>E.coli</i> (CFU/100 ml)	0	0	Membrane Filtration

* These values show lower and upper limits.

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

Note: - The entire test was conducted as per the National Drinking Water Quality Standard 2079 BS

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WATER QUALITY TEST REPORT
(पानी परीक्षण घुम्टीसेवा)

Name of Client:- **Baghauda Water Supply and Sanitation Users Association**

Sample Code:- M-03/079-80

Sampled By:- Client

Source of Sample:- Deep Boring(Boring source)

Type of Sample: Drinking Water

Location:- Madi Nagarpalika-3 ,Chitwan

Date of Collection:- 2079/09/19

Date of Completion:- 2079/09/22

S.No.	Category	Parameters	Observed Values	NDWQS, 2079 BS	Analyzed Methods
1	Physical	Turbidity (NTU)	8.41	5	Nephelometric
2		Temp. °c	-	-	Thermometric
3		pH	7.61	6.5 - 8.5 *	Electrometric
4		Taste and Odor	-	Non-objectionable	-
5		TDS (mg/L)	340	1000	Instrumental
6		Electrical Conductivity (µs/cm)	510	1500	Instrumental
7	Chemical	Iron (mg/L)	0.48	0.3 (3)	Phenanthroline method
8		Manganese (mg/L)	<0.1	0.2	Persulfate method *
9		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator
10		Ammonia (mg/L)	<0.1	1.5	Nesslerization
11		Nitrate (mg/L)	2.0	50	UV Spectrophotometric Screening
12		Fluoride (mg/L)	-	0.5-1.5*	SPADNS Colourimetric
13		Chloride (mg/L)	-	250	Argentometric Titration
14		Total Hardness (mg/L as CaCO ₃)	220	500	EDTA Titrimetric
15		Calcium Hardness (mg/L)	116	200	EDTA Titrimetric
16		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator
17	Microbiological	Faecal coliform E.coli(CFU/100 ml)	0	0	Membrane Filtration

* These values show lower and upper limits.

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

Note: - The entire test was conducted as per the National Drinking Water Quality Standard 2079 BS

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WATER QUALITY TEST REPORT

(पानी परीक्षण घुम्टीसेवा)

Name of Client:- **Baghauda Water Supply and Sanitation Users Association**

Sample Code:- M-04/079-80

Sampled By:- Client

Source of Sample:- Deep Boring(Tap-Madi Campus)

Type of Sample: Drinking Water

Location:- Madi Nagarpalika-3, Chitwan

Date of Collection:- 2079/09/19

Date of Completion:- 2079/09/22

S.No.	Category	Parameters	Observed Values	NDWQS, 2079 BS	Analyzed Methods
1	Physical	Turbidity (NTU)	8.3	5	Nephelometric
2		Temp. °c	-	-	Thermometric
3		pH	7.68	6.5 - 8.5 *	Electrometric
4		Taste and Odor	-	Non-objectionable	-
5		TDS (mg/L)	339	1000	Instrumental
6		Electrical Conductivity (µs/cm)	509	1500	Instrumental
7	Chemical	Iron (mg/L)	0.5	0.3 (3)	Phenanthroline method
8		Manganese (mg/L)	<0.1	0.2	Persulfate method
9		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator
10		Ammonia (mg/L)	<0.1	1.5	Nesslerization
11		Nitrate (mg/L)	2.1	50	UV Spectrophotometric Screening
12		Fluoride (mg/L)	-	0.5-1.5*	SPADNS Colourimetric
13		Chloride (mg/L)	-	250	Argentometric Titration
14		Total Hardness (mg/L as CaCO ₃)	220	500	EDTA Titrimetric
15		Calcium Hardness (mg/L)	118	200	EDTA Titrimetric
16		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator
17	Microbiological	Faecal coliform <i>E.coli</i> (CFU/100 ml)	0	0	Membrane Filtration

* These values show lower and upper limits.

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

Note:- The entire test was conducted as per the National Drinking Water Quality Standard 2079 BS

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WATER QUALITY TEST REPORT
(पानी परीक्षण छुम्तीसेवा)

Name of Client:- **Kalyanpur Water Supply and Sanitation Users Association**

Sample Code:- M-05/079-80

Sampled By:- Client

Date of Collection:- 2079/09/19

Source of Sample:- Deep Boring(Boring source)

Date of Completion:- 2079/09/22

Type of Sample: Drinking Water

Location:- Madi Nagarpalika-7, Chitwan

S.No.	Category	Parameters	Observed Values	NDWQS, 2079 BS	Analyzed Methods
1	Physical	Turbidity (NTU)	3.1	5	Nephelometric
2		Temp. °C	-	-	Thermometric
3		pH	7.1	6.5 - 8.5 *	Electrometric
4		Taste and Odor	-	Non-objectionable	-
5		TDS (mg/L)	302	1000	Instrumental
6		Electrical Conductivity (µs/cm)	454	1500	Instrumental
7	Chemical	Iron (mg/L)	0.32	0.3 (3)	Phenanthroline method
8		Manganese (mg/L)	<0.1	0.2	Persulfate method
9		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator
10		Ammonia (mg/L)	<0.1	1.5	Nesslerization
11		Nitrate (mg/L)	1.5	50	UV Spectrophotometric Screening
12		Fluoride (mg/L)	-	0.5-1.5*	SPADNS Colourimetric
13		Chloride (mg/L)	-	250	Argentometric Titration
14		Total Hardness (mg/L as CaCO ₃)	202	500	EDTA Titrimetric
15		Calcium Hardness (mg/L)	98	200	EDTA Titrimetric
16		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator
17	Microbiological	Faecal coliform <i>E.coli</i> (CFU/100 ml)	0	0	Membrane Filtration

* These values show lower and upper limits.

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

Note: - The entire test was conducted as per the National Drinking Water Quality Standard 2079 BS

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Analyzed By:

Chemist



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WATER QUALITY TEST REPORT
(पानी परीक्षण घुम्टीसेवा)

Name of Client:- **Kalyanpur Water Supply and Sanitation Users Association**

Sample Code:- M-06/079-80

Sampled By:- Client

Date of Collection:- 2079/09/19

Source of Sample:- Deep Boring(Tap Ward No-7 Office)

Date of Completion:- 2079/09/22

Type of Sample: Drinking Water

Location:- Madi Nagarpalika-7, Chitwan

S.No.	Category	Parameters	Observed Values	NDWQS, 2079 BS	Analyzed Methods
1	Physical	Turbidity (NTU)	3.2	5	Nephelometric
2		Temp. °C	-	-	Thermometric
3		pH	7.46	6.5 - 8.5 *	Electrometric
4		Taste and Odor	-	Non-objectionable	-
5		TDS (mg/L)	344	1000	Instrumental
6		Electrical Conductivity (µs/cm)	516	1500	Instrumental
7	Chemical	Iron (mg/L)	0.41	0.3 (3)	Phenanthroline method
8		Manganese (mg/L)	<0.1	0.2	Persulfate method
9		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator
10		Ammonia (mg/L)	<0.1	1.5	Nesslerization
11		Nitrate (mg/L)	3.5	50	UV Spectrophotometric Screening
12		Fluoride (mg/L)	-	0.5-1.5*	SPADNS Colourimetric
13		Chloride (mg/L)	-	250	Argentometric Titration
14		Total Hardness (mg/L as CaCO ₃)	210	500	EDTA Titrimetric
15		Calcium Hardness (mg/L)	116	200	EDTA Titrimetric
16		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator
17	Microbiological	Faecal coliform <i>E.coli</i> (CFU/100 ml)	0	0	Membrane Filtration

* These values show lower and upper limits.

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

Note: - The entire test was conducted as per the National Drinking Water Quality Standard 2079 BS

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Analyzed By: **Chemist**



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WATER QUALITY TEST REPORT

(पानी परीक्षण घुम्टीसेवा)

Name of Client:- **Kharkatta Shivdwar Tallo Jivanpur Water Supply and Sanitation Users Association**

Sample Code:- M-07/079-80

Sampled By:- Client

Date of Collection:- 2079/09/20

Source of Sample:- Deep Boring(Boring source)

Date of Completion:- 2079/09/22

Type of Sample: Drinking Water

Location:- Madi Nagarpalika-8, Chitwan

S.No.	Category	Parameters	Observed Values	NDWQS, 2079 BS	Analyzed Methods
1	Physical	Turbidity (NTU)	49.2	5	Nephelometric
2		Temp. °C	-	-	Thermometric
3		pH	7.37	6.5 - 8.5 *	Electrometric
4		Taste and Odor	-	Non-objectionable	-
5		TDS (mg/L)	342	1000	Instrumental
6		Electrical Conductivity (µs/cm)	514	1500	Instrumental
7	Chemical	Iron (mg/L)	2.86	0.3 (3)	Phenanthroline method
8		Manganese (mg/L)	<0.1	0.2	Persulfate method
9		Arsenic (mg/L)	<0.01	0.05	Digital Arsenator
10		Ammonia (mg/L)	<0.1	1.5	Nesslerization
11		Nitrate (mg/L)	3.8	50	UV Spectrophotometric Screening
12		Fluoride (mg/L)	-	0.5-1.5*	SPADNS Colourimetric
13		Chloride (mg/L)	-	250	Argentometric Titration
14		Total Hardness (mg/L as CaCO ₃)	215	500	EDTA Titrimetric
15		Calcium Hardness (mg/L)	114	200	EDTA Titrimetric
16		Residual Chlorine (mg/L)	-	0.1-0.5*	Chlorine Comparator
17	Microbiological	Faecal coliform <i>E.coli</i> (CFU/100 ml)	0	0	Membrane Filtration

* These values show lower and upper limits.

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

Note:- The entire test was conducted as per the National Drinking Water Quality Standard 2079 BS

TNTC: Too Numerous to Count

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Analyzed By:

Chemist