

**Government of Nepal**  
**Ministry of Urban Development**  
**Department Drinking Water and Sewerage**  
**Regional Water Quality Testing Laboratory**  
 Bharatpur, Chitwan

## WATER QUALITY TEST REPORT

Lab Id No: 6-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-1 (Near Generator of Office)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.3	5-10	
2	pH		Instrumental	8.2	6.5-8.5	
3	Color	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	155	1000	
6	Electrical Conductivity	µs/cm	Instrumental	309	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.013	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.2	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	8.5	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.021	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	130.0	500	
21	Calcium	mg/L	Titrimetry	37.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-	0.0	0	

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 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 22-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-2 (Near Malpot Chowk)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.5	5-10	
2	pH		Instrumental	7.8	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	154	1000	
6	Electrical Conductivity	µs/cm	Instrumental	308	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.01	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.007	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	9.6	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	160.0	500	
21	Calcium	mg/L	Titrimetry	38.4	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**WATER QUALITY TEST REPORT**

Lab Id No: 7-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-3 (Back Side of Office)

Sampled By: Depak

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.8	5-10	
2	pH		Instrumental	8.0	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	147	1000	
6	Electrical Conductivity	µs/cm	Instrumental	294	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.010	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	Neg.	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.4	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	10.6	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.03	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	138.0	500	
21	Calcium	mg/L	Titrimetry	41.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**WATER QUALITY TEST REPORT**

Lab Id No: 23-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-4 (Saradpur)

Sampled By: Rajendra

Source: Deep Boring

S. N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	7.9	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	150	1000	
6	Electrical Conductivity	µs/cm	Instrumental	300	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.010	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	Neg.	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	9.9	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	170.0	500	
21	Calcium	mg/L	Titrimetry	41.6	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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## WATER QUALITY TEST REPORT

Lab Id No: 24-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-5 (Tri-Chowk)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.5	5-10	
2	pH		Instrumental	7.6	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	152	1000	
6	Electrical Conductivity	µs/cm	Instrumental	304	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.001	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.007	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	14.2	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	130.0	500	
21	Calcium	mg/L	Titrimetry	32.8	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**WATER QUALITY TEST REPORT**

Lab Id No: 8-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-6 (Aaptari)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	6.5	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	107	1000	
6	Electrical Conductivity	µs/cm	Instrumental	214	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.002	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	16.3	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.01	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	96.0	500	
21	Calcium	mg/L	Titrimetry	24.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**WATER QUALITY TEST REPORT**

Lab Id No: 9-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-7 (Rijal Chowk)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	7.5	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	286	1000	
6	Electrical Conductivity	µs/cm	Instrumental	571	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	Neg.	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	18.1	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.21	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	280.0	500	
21	Calcium	mg/L	Titrimetry	70.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**WATER QUALITY TEST REPORT**

Lab Id No: 10-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-8 (Krishnapur Backside)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.5	5-10	
2	pH		Instrumental	8.0	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	150	1000	
6	Electrical Conductivity	µs/cm	Instrumental	300	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.01	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.009	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.3	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	12.1	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.13	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	140.0	500	
21	Calcium	mg/L	Titrimetry	45.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**WATER QUALITY TEST REPORT**

Lab Id No: 11-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-9 (Near Office Krishnapur)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.5	5-10	
2	pH		Instrumental	8.0	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	139	1000	
6	Electrical Conductivity	µs/cm	Instrumental	277	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.001	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	Neg.	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.2	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	17.0	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.11	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	136.0	500	
21	Calcium	mg/L	Titrimetry	48.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 25-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-10 (Near Generator  
Nagarpalika)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	7.6	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	184	1000	
6	Electrical Conductivity	µs/cm	Instrumental	366	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.005	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	Neg.	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	13.1	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	232.0	500	
21	Calcium	mg/L	Titrimetry	34.4	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**WATER QUALITY TEST REPORT**

Lab Id No: 11-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-11 (Near Nagarpalika Office)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.6	5-10	
2	pH		Instrumental	7.8	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	224	1000	
6	Electrical Conductivity	µs/cm	Instrumental	447	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.001	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	16.0	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	172.0	500	
21	Calcium	mg/L	Titrimetry	32.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

**Government of Nepal**  
**Ministry of Urban Development**  
**Department Drinking Water and Sewerage**  
**Regional Water Quality Testing Laboratory**  
 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 12-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-12 (Near Ramailo Chowk)

Sampled By: Ram Prasad

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.7	5-10	
2	pH		Instrumental	8.0	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	167	1000	
6	Electrical Conductivity	µs/cm	Instrumental	333	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.01	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.4	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	13.5	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	184.0	500	
21	Calcium	mg/L	Titrimetry	47.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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**Regional Water Quality Testing Laboratory**  
 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 34-071/72

Date Received: 2071-06-05

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-06-10

Location: Well-13 (Gauriganj)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	7.7	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	79	1000	
6	Electrical Conductivity	µs/cm	Instrumental	157	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.01	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.4	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	8.5	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	78.0	500	
21	Calcium	mg/L	Titrimetry	22.4	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 35-071/72

Date Received: 2071-06-05

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-06-10

Location: Well-14 (Torikhet)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	8.1	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	94	1000	
6	Electrical Conductivity	µs/cm	Instrumental	188	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.005	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.2	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	7.1	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	94.0	500	
21	Calcium	mg/L	Titrimetry	32.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 36-071/72

Date Received: 2071-06-05

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-06-10

Location: Well-15 (Prembasti)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	8.0	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	107	1000	
6	Electrical Conductivity	µs/cm	Instrumental	213	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.015	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.3	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	6.0	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	142.0	500	
21	Calcium	mg/L	Titrimetry	24.8	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 13-071/72

Date Received: 2071-04-20

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-04-30

Location: Well-16 (Back Side of Office - New Well)

Sampled By: Ram Prasad

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.6	5-10	
2	pH		Instrumental	7.8	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	162	1000	
6	Electrical Conductivity	µs/cm	Instrumental	323	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.5	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	12.8	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	164.0	500	
21	Calcium	mg/L	Titrimetry	54.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 37-071/72

Date Received: 2071-06-05

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-06-10

Location: Well-17 (Kailashnagar)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.7	5-10	
2	pH		Instrumental	8.0	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	165	1000	
6	Electrical Conductivity	µs/cm	Instrumental	330	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.01	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.006	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.2	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	6.0	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	< 0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	70.0	500	
21	Calcium	mg/L	Titrimetry	23.2	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

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 Bharatpur, Chitwan

**WATER QUALITY TEST REPORT**

Lab Id No: 38-071/72

Date Received: 2071-06-05

Name of Project: **Bharatpur Water Supply Management Board**

Date Completed: 2071-06-10

Location: Well-18 (Anandapur)

Sampled By: Rajendra

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	0.5	5-10	
2	pH		Instrumental	7.8	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	200	1000	
6	Electrical Conductivity	µs/cm	Instrumental	400	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	ND	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0.011	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.1	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	7.5	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.1	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	156.0	500	
21	Calcium	mg/L	Titrimetry	33.6	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

**Government of Nepal**  
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**Regional Water Quality Testing Laboratory**  
 Bharatpur, Chitwan

## WATER QUALITY TEST REPORT

Lab Id No: 14-071/72

Name of Project: **Bharatpur Water Supply Management Board**

Location: Well-19 (Krishnapur - New Well)

Date Received: 2071-04-20

Date Completed: 2071-04-30

Sampled By: Ram Prasad

Source: Deep Boring

S.N.	Parameters	Unit	Test Method	Observed Value	National Drinking Water Standard 2062	Remark
	<b>PHYSICAL</b>					
1	Turbidity	NTU	Instrumental	1.0	5-10	
2	pH		Instrumental	8.5	6.5-8.5	
3	Colour	TCU	Field Method	5	5-15	
4	Taste & Odor		Observation	NO	Non-Objectionable	
5	TDS	mg/L	Calculation	195	1000	
6	Electrical Conductivity	µs/cm	Instrumental	390	1500	
	<b>CHEMICAL</b>					
7	Iron	mg/L	Spectrophotometry	0.002	0.3-3	
8	Manganese	mg/L	Spectrophotometry	ND	0.2	
9	Arsenic	mg/L	Arsenator	0	0.05	
10	Cadmium	mg/L	-		0.003	
11	Chromium	mg/L	Spectrophotometry	ND	0.05	
12	Cyanide	mg/L	-		0.07	
13	Fluoride	mg/L	Spectrophotometry	0.6	0.5-1.5	
14	Lead	mg/L	-		0.01	
15	Ammonia	mg/L	Spectrophotometry	< 0.1	1.5	
16	Chloride	mg/L	Titrimetry	12.8	250	
17	Sulphate	mg/L	-		250	
18	Nitrate	mg/L	Spectrophotometry	0.18	50	
19	Copper	mg/L	-		1	
20	Total Hardness	mg/L	Titrimetry	156.0	500	
21	Calcium	mg/L	Titrimetry	51.0	200	
22	Zinc	mg/L	-		3	
23	Mercury	mg/L	-		0.001	
24	Aluminium	mg/L	-		0.2	
25	Residual Chlorine	mg/L	-		0.1-0.2	
	<b>MICRO-BIOLOGICAL</b>					
26	E-Coli/Faecal Coliform	CFU/100ml	Membrane Filtration	0.0	0	
27	Total Coliform	CFU/100ml	-		0	

ND=Not Detected

NO=Non-Objectionable

Neg=Negligible

Parameters Analysed are under NDWS-2062