



E-Mail - pmdsu.mathura@gmail.com

Phone/Fax No. 0565-2422349

UTTAR PRADESH JAL NIGAM

Water Testing Laboratory at 101 MLD Gokul Barrage
Water Treatment Plant, Mathura

PHYSICAL CHEMICAL AND BACTERIOLOGICAL TEST - REPORT

Serial No. 369

Date: 11/4/2022

Discharge (mld) -

29.00

ALUM Dose (ppm) -

15.00

CHLORINE Demand (ppm) -

6.00

S. No.	Particulars	Unit	Test Result		BIS Specified Values	
			Raw Water	Treated Water	Acceptable limit	Permissible limit
(A) PHYSICAL EXAMINATION						
1	Colour	Hazen	15.00	25.00	5	15
2	Odour		Dis Agr.	Agreeable	Agreeable	Agreeable
3	Ph Value		7.49	7.21	6.50-8.50	6.50-8.50
4	Taste		Dis Agr.	Agreeable	Agreeable	Agreeable
5	Turbidity	N.T.U			1.00	5.00
6	Total Dissolved Solids	mg/l	110.00	107.00	500.00	2000.00
7	Temperature		28°C	27.00	-	-
(B) CHEMICAL ANALYSIS						
1	Free Residual Chlorine	mg/l	-	1.50	0.20	1.00
2	Chloride (as Cl)	mg/l	16.00	14.00	250.00	1000.00
3	Alkalinity	mg/l	52.00	46.00	200.00	600.00
4	Total Hardness (as Caco3)	mg/l	74.00	66.00	200.00	600.00
5	Calcium (as Ca)	mg/l			75.00	200.00
6	Magnesium (as Mg)	mg/l			30.00	100.00
7	Iron (as Fe)	mg/l			0.30	0.30
8	Nitrate (as No3)	mg/l			45.00	45.00
9	Fluoride (as F)	mg/l			1.00	1.50
10	Dissolved Oxygen	mg/l	8.90	9.30	-	-
11	Sulphate (as So4)	mg/l			200.00	400.00
12	Manganese (as mn)	mg/l			0.10	0.30
(C) BACTERIOLOGICAL EXAMINATION						
1	Total Coliforms	No/100ml		Subnormal	No change	
2	Faecal Streptococci	No/100ml				
3	Total Plate Count	No/ml				
4	BOD (After 5 days)	mg/l	0.40			

6/4/2022

11/4/2022

Chemist/Lab Assist.



E-Mail - pmdsu.mathura@gmail.com

Phone/Fax No. 0565-2422349

UTTAR PRADESH JAL NIGAM

Water Testing Laboratory at 101 MLD Gokul Barrage
Water Treatment Plant, Mathura

PHYSICAL CHEMICAL AND BACTERIOLOGICAL TEST - REPORT

Serial No. **398**

Date: 10/5/2022

Discharge (mld) -

31.00

ALUM Dose (ppm) -

15.00

CHLORINE Demand (ppm) - 7.00

S. No.	Particulars	Unit	Test Result		BIS Specified Values	
			Raw Water	Treated Water	Acceptable limit	Permissible limit
(A) PHYSICAL EXAMINATION						
1	Colour	Hazen	15.00	25.00	5	15
2	Odour		Dis Agr	Agreeable	Agreeable	Agreeable
3	Ph Value		7.82	7.22	6.50-8.50	6.50-8.50
4	Taste		Dis Agr	Agreeable	Agreeable	Agreeable
5	Turbidity	N.T.U			1.00	5.00
6	Total Dissolved Solids	mg/l	114.00	108.00	500.00	2000.00
7	Temperature		33°C	31°C	-	-
(B) CHEMICAL ANALYSIS						
1	Free Residual Chlorine	mg/l	-	2.00	0.20	1.00
2	Chloride (as Cl)	mg/l	18.00	15.00	250.00	1000.00
3	Alkalinity	mg/l	58.00	50.00	200.00	600.00
4	Total Hardness (as Caco3)	mg/l	76.00	66.00	200.00	600.00
5	Calcium (as Ca)	mg/l			75.00	200.00
6	Magnesium (as Mg)	mg/l			30.00	100.00
7	Iron (as Fe)	mg/l			0.30	0.30
8	Nitrate (as No3)	mg/l			45.00	45.00
9	Fluoride (as F)	mg/l			1.00	1.50
10	Dissolved Oxygen	mg/l	8.30	9.10	-	-
11	Sulphate (as So4)	mg/l			200.00	400.00
12	Manganese (as mn)	mg/l			0.10	0.30
(C) BACTERIOLOGICAL EXAMINATION						
1	Total Coliforms	No/100ml		5/101 AM	No change	
2	Faecal Streptococci	No/100ml				
3	Total Plate Count	No/ml				
4	BOD (After 5 days)	mg/l	0.60			

5/5/2022

5/5/2022

10/5/2022
Chemist/Lab Assist.



E-Mail - pmdsu.mathura@gmail.com

Phone/Fax No. 0565-2422349

UTTAR PRADESH JAL NIGAM

Water Testing Laboratory at 101 MLD Gokul Barrage
Water Treatment Plant, Mathura

PHYSICAL CHEMICAL AND BACTERIOLOGICAL TEST - REPORT

Serial No.

434

Date: 15/6/2022

Discharge (mld) -

29.00

ALUM Dose (ppm) -

20.00

CHLORINE Demand (ppm) -

6.00

S. No.	Particulars	Unit	Test Result		BIS Specified Values	
			Raw Water	Treated Water	Acceptable limit	Permissible limit
(A) PHYSICAL EXAMINATION						
1	Colour	Hazen	25.00	<5.0	5	15
2	Odour		Dis Agr	Agreeable	Agreeable	Agreeable
3	Ph Value		7.91	7.34	6.50-8.50	6.50-8.50
4	Taste		Dis Agr	Agreeable	Agreeable	Agreeable
5	Turbidity	N.T.U			1.00	5.00
6	Total Dissolved Solids	mg/l	118.00	112.0	500.00	2000.00
7	Temperature		32.2	31.0	-	-
(B) CHEMICAL ANALYSIS						
1	Free Residual Chlorine	mg/l	-	2.50	0.20	1.00
2	Chloride (as Cl)	mg/l	18.00	16.0	250.00	1000.00
3	Alkalinity	mg/l	68.00	54.0	200.00	600.00
4	Total Hardness (as Caco3)	mg/l	76.00	66.0	200.00	600.00
5	Calcium (as Ca)	mg/l			75.00	200.00
6	Magnesium (as Mg)	mg/l			30.00	100.00
7	Iron (as Fe)	mg/l			0.30	0.30
8	Nitrate (as No3)	mg/l			45.00	45.00
9	Fluoride (as F)	mg/l			1.00	1.50
10	Dissolved Oxygen	mg/l			-	-
11	Sulphate (as So4)	mg/l			200.00	400.00
12	Manganese (as mn)	mg/l			0.10	0.30
(C) BACTERIOLOGICAL EXAMINATION						
1	Total Coliforms	No/100ml		Seen 11 AM	No change	
2	Faecal Streptococci	No/100ml			Colony	
3	Total Plate Count	No/ml				
4	BOD (After 5 days)	mg/l				

15/6/22

Chemist/Lab Assist.



E-Mail - pmdsu.mathura@gmail.com

Phone/Fax No. 0565-2422349

UTTAR PRADESH JAL NIGAM

Water Testing Laboratory at 101 MLD Gokul Barrage
Water Treatment Plant, Mathura

PHYSICAL CHEMICAL AND BACTERIOLOGICAL TEST - REPORT

Serial No. **463**

Date: **14/7/22**

Discharge (mld) - **26.0**
ALUM Dose (ppm) - **25.00**
CHLORINE Demand (ppm) - **6.00**

S. No.	Particulars	Unit	Test Result		BIS Specified Values	
			Raw Water	Treated Water	Acceptable limit	Permissible limit
(A) PHYSICAL EXAMINATION						
1	Colour	Hazen	30.00	25.0	5	15
2	Odour		Dis Agr.	Agreeable	Agreeable	Agreeable
3	Ph Value		7.75	7.29	6.50-8.50	6.50-8.50
4	Taste		Dis Agr.	Agreeable	Agreeable	Agreeable
5	Turbidity	N.T.U	89.00	1.0	1.00	5.00
6	Total Dissolved Solids	mg/l	111.00	107.0	500.00	2000.00
7	Temperature		30°C	29°C	-	-
(B) CHEMICAL ANALYSIS						
1	Free Residual Chlorine	mg/l	-	2.50	0.20	1.00
2	Chloride (as Cl)	mg/l	22.00	20.0	250.00	1000.00
3	Alkalinity	mg/l	66.00	54.0	200.00	600.00
4	Total Hardness (as Caco3)	mg/l	74.00	56.0	200.00	600.00
5	Calcium (as Ca)	mg/l			75.00	200.00
6	Magnesium (as Mg)	mg/l			30.00	100.00
7	Iron (as Fe)	mg/l			0.30	0.30
8	Nitrate (as No3)	mg/l			45.00	45.00
9	Fluoride (as F)	mg/l			1.00	1.50
10	Dissolved Oxygen	mg/l	6.60	7.50	-	-
11	Sulphate (as So4)	mg/l			200.00	400.00
12	Manganese (as mn)	mg/l			0.10	0.30
(C) BACTERIOLOGICAL EXAMINATION						
1	Total Coliforms	No/100ml		Sub 11 AM	No change	
2	Faecal Streptococci	No/100ml			colour.	
3	Total Plate Count	No/ml				
4	BOD (After 5 days)	mg/l				

14/7/22
Chemist/Lab Assist.



E-Mail - pmdsu.mathura@gmail.com

Phone/Fax No. 0565-2422349

UTTAR PRADESH JAL NIGAM

Water Testing Laboratory at 101 MLD Gokul Barrage
Water Treatment Plant, Mathura

PHYSICAL CHEMICAL AND BACTERIOLOGICAL TEST - REPORT

Serial No. **489**

Date: **9/8/2022**

Discharge (mld) - **27.0**

ALUM Dose (ppm) - **30.0**

CHLORINE Demand (ppm) - **5.0**

S. No.	Particulars	Unit	Test Result		BIS Specified Values	
			Raw Water	Treated Water	Acceptable limit	Permissible limit
(A) PHYSICAL EXAMINATION						
1	Colour	Hazen	35.0	<5	5	15
2	Odour		Dis. Agree	Agreeable	Agreeable	Agreeable
3	Ph Value		7.72	7.10	6.50-8.50	6.50-8.50
4	Taste		Dis. Agree	Agreeable	Agreeable	Agreeable
5	Turbidity	N.T.U	222.0	1.0	1.00	5.00
6	Total Dissolved Solids	mg/l	125.0	120.0	500.00	2000.00
7	Temperature		30°C	29°C	-	-
(B) CHEMICAL ANALYSIS						
1	Free Residual Chlorine	mg/l	—	1.0	0.20	1.00
2	Chloride (as Cl)	mg/l	15.0	16.0	250.00	1000.00
3	Alkalinity	mg/l	78.0	64.0	200.00	600.00
4	Total Hardness (as Caco3)	mg/l	80.0	70.0	200.00	600.00
5	Calcium (as Ca)	mg/l			75.00	200.00
6	Magnesium (as Mg)	mg/l			30.00	100.00
7	Iron (as Fe)	mg/l			0.30	0.30
8	Nitrate (as No3)	mg/l			45.00	45.00
9	Fluoride (as F)	mg/l			1.00	1.50
10	Dissolved Oxygen	mg/l	7.80	8.50	-	-
11	Sulphate (as So4)	mg/l			200.00	400.00
12	Manganese (as mn)	mg/l			0.10	0.30
(C) BACTERIOLOGICAL EXAMINATION						
1	Total Coliforms	No/100ml		Stoniam		
2	Faecal Streptococci	No/100ml				
3	Total Plate Count	No/ml				
4	BOD (After 5 days)	mg/l				

Signature
9/8/2022

Chemist/Lab Assist.



E-Mail - pmdsu.mathura@gmail.com

Phone/Fax No. 0565-2422349

UTTAR PRADESH JAL NIGAM

Water Testing Laboratory at 101 MLD Gokul Barrage
Water Treatment Plant, Mathura

PHYSICAL CHEMICAL AND BACTERIOLOGICAL TEST - REPORT

Serial No. 525

Date: 14/9/2022

Discharge (mld) - 26.0

ALUM Dose (ppm) - 15.0

CHLORINE Demand (ppm) - 4.0

S. No.	Particulars	Unit	Test Result		BIS Specified Values	
			Raw Water	Treated Water	Acceptable limit	Permissible limit
(A) PHYSICAL EXAMINATION						
1	Colour	Hazen	15.0	< 5.0	5	15
2	Odour		Dis Agree	Agreeable	Agreeable	Agreeable
3	Ph Value		7.81	7.22	6.50-8.50	6.50-8.50
4	Taste		Dis Agree	Agreeable	Agreeable	Agreeable
5	Turbidity	N.T.U	144.0	< 1.0	1.00	5.00
6	Total Dissolved Solids	mg/l	121.0	116.0	500.00	2000.00
7	Temperature		28°C	27°C	-	-
(B) CHEMICAL ANALYSIS						
1	Free Residual Chlorine	mg/l	—	0.6	0.20	1.00
2	Chloride (as Cl)	mg/l	20.0	18.0	250.00	1000.00
3	Alkalinity	mg/l	62.0	48.0	200.00	600.00
4	Total Hardness (as Caco3)	mg/l	82.0	72.0	200.00	600.00
5	Calcium (as Ca)	mg/l			75.00	200.00
6	Magnesium (as Mg)	mg/l			30.00	100.00
7	Iron (as Fe)	mg/l			0.30	0.30
8	Nitrate (as No3)	mg/l			45.00	45.00
9	Fluoride (as F)	mg/l			1.00	1.50
10	Dissolved Oxygen	mg/l	7.30	8.00	-	-
11	Sulphate (as So4)	mg/l			200.00	400.00
12	Manganese (as mn)	mg/l			0.10	0.30
(C) BACTERIOLOGICAL EXAMINATION						
1	Total Coliforms	No/100ml	Set on 11 Am No colour			
2	Faecal Streptococci	No/100ml	Change			
3	Total Plate Count	No/ml				
4	BOD (After 5 days)	mg/l				

Project Engineer
Drainage & Sewerage Unit
U. P. Jal Nigam, Mathura

A.P.E.

Chemist/Lab Assist.
14/9/22