



ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itlrlab@gmail.com, info@itslab.in, contact@itslab.in

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Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-260523-12	24-06-2023

Issue To : Maalik Transport Company, Proponent - Chandra Prakash Singh
Project Name Location : Sand Mining Project Block – 28 (Gaya Morhar- 15) Sand Ghat on Morhar River, at Village- Ahuri & Kathar, Tehsil/Anchal- Amas & Sherghati, District- Gaya, State-Bihar

Sampling & Analysis

Sample Description : Ambient Air
Sampling Plan & Procedure : SOP-AAQ/07
Sampling Instrument Used : RDS (PM10), Fine Particulate Sampler (PM2.5) & Gaseous Attachment

Ambient Air Quality Data March 2023 to May 2023				AQ-1 Project Site	
S.No	Date	PM _{2.5} , µg/m ³	PM ₁₀ , µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
		IS:5182:Pt-23	Gravimetric	IS:5182:Pt-2	IS:5182:Pt-6
1	02-03-2023	44.2	84.49	7.9	15.9
2	06-03-2023	48.5	82.06	8.3	15.6
3	11-03-2023	49.3	74.62	10.2	16.7
4	15-03-2023	45.1	81.48	9.6	15.8
5	19-03-2023	45.5	73.35	7.4	17.4
6	23-03-2023	52.5	80.52	10.3	18.0
7	26-03-2023	55.5	80.89	6.5	15.6
8	29-03-2023	46.5	83.46	8.2	16.6
9	01-04-2023	43.9	70.78	9.3	19.9
10	05-04-2023	42.5	91.54	7.8	16.3
11	08-04-2023	58.5	78.56	9.3	16.7
12	12-04-2023	43.8	74.67	10.8	21.5
13	16-04-2023	42.5	75.69	11.2	17.4
14	20-04-2023	57.8	80.23	12.6	14.7
15	24-04-2023	50.6	70.28	9.7	15.5
16	27-04-2023	56.5	74.20	10.3	20.3
17	02-05-2023	42.5	79.70	9.2	17.2
18	05-05-2023	44.9	74.34	8.9	16.9
19	08-05-2023	50.5	88.67	7.4	15.3
20	12-05-2023	53.6	86.76	8.3	20.7
21	15-05-2023	57.5	73.40	10.9	15.7
22	18-05-2023	50.5	85.46	8.5	14.4
23	21-05-2023	51.38	78.23	9.1	16.3
24	25-05-2023	42.70	92.54	8.6	15.4
	Min	42.5	70.28	6.5	14.4
	Max	58.5	92.54	12.6	21.5
	Average	49.03	79.83	9.18	16.91
	98 Percentile	58.18	92.08	11.96	21.13
NAAQS, For 24 hourly		100	60	80	80

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Ambient Air Quality Data March 2023 to May 2023				AQ- 2	
S.No	Date	PM _{2.5} , µg/m ³	PM ₁₀ , µg/m ³	SO ₂ µg/m ³	NO ₂ , µg/m ³
		IS:5182:Pt-23	Gravimetric	IS:5182:Pt-2	IS:5182:Pt-6
1	02-03-2023	49.5	88.34	7.5	15.4
2	06-03-2023	47.9	81.48	8.5	19.0
3	11-03-2023	45.4	85.37	8.8	16.7
4	15-03-2023	49.8	72.59	7.6	15.9
5	19-03-2023	46.5	85.87	11.9	18.2
6	23-03-2023	56.5	80.44	6.2	16.5
7	26-03-2023	52.5	82.76	5.9	19.8
8	29-03-2023	48.5	78.43	8.9	16.2
9	01-04-2023	50.7	75.79	6.9	15.8
10	05-04-2023	52.5	75.52	9.1	14.7
11	08-04-2023	54.5	77.90	8.4	15.7
12	12-04-2023	46.8	75.63	7.8	22.7
13	16-04-2023	44.5	79.79	8.4	18.2
14	20-04-2023	55.2	72.81	8.0	15.6
15	24-04-2023	52.6	76.99	9.9	16.7
16	27-04-2023	51.5	74.22	10.2	15.9
17	02-05-2023	53.5	71.70	6.9	17.6
18	05-05-2023	46.5	89.78	6.7	19.8
19	08-05-2023	53.5	75.49	7.5	14.3
20	12-05-2023	57.5	90.87	11.2	16.7
21	15-05-2023	49.5	73.45	8.9	15.9
22	18-05-2023	48.7	91.46	11.4	16.3
23	21-05-2023	50.38	89.23	9.8	20.7
24	25-05-2023	45.70	78.54	10.6	16.9
	Min	44.5	71.7	5.9	14.3
	Max	57.5	91.46	11.9	22.7
	Average	50.42	80.19	8.63	17.13
	98 Percentile	57.04	91.19	11.67	21.78
NAAQS, For 24 hourly		100	60	80	80

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Ambient Air Quality Data March 2023 to May 2023				AQ- 3	
S.No	Date	PM _{2.5} , µg/m ³	PM ₁₀ , µg/m ³	SO ₂ µg/m ³ ,	NO ₂ , µg/m ³
		IS:5182:Pt-23	Gravimetric	IS:5182:Pt-2	IS:5182:Pt-6
1	02-03-2023	47.5	71.2	7.0	17.2
2	06-03-2023	46.5	69.5	8.9	16.9
3	11-03-2023	53.5	70.2	8.8	16.7
4	15-03-2023	55.5	68.5	7.8	18.3
5	19-03-2023	50.5	91.1	6.4	18.4
6	23-03-2023	52.7	83.2	9.9	21.8
7	26-03-2023	55.5	82.56	8.7	17.7
8	29-03-2023	59.5	74.16	10.4	16.7
9	01-04-2023	46.8	85.18	6.2	20.3
10	05-04-2023	49.5	76.50	11.2	15.7
11	08-04-2023	50.2	68.28	9.4	17.8
12	12-04-2023	53.6	85.62	8.1	14.2
13	16-04-2023	46.5	81.20	12.3	15.9
14	20-04-2023	48.2	89.43	7.0	14.7
15	24-04-2023	41.6	86.24	8.2	17.3
16	27-04-2023	46.6	80.57	9.6	20.7
17	02-05-2023	49.5	79.90	7.9	14.2
18	05-05-2023	52.5	70.63	10.2	12.7
19	08-05-2023	50.5	75.62	8.9	18.2
20	12-05-2023	45.1	72.30	9.9	15.5
21	15-05-2023	51.1	71.85	6.9	16.8
22	18-05-2023	44.7	79.57	7.6	17.8
23	21-05-2023	51.4	75.90	6.8	19.2
24	25-05-2023	49.2	70.9	12.6	18.6
	Min	41.6	68.28	6.2	12.7
	Max	59.5	91.1	12.6	21.8
	Average	49.93	77.50	8.78	17.22
	98 Percentile	57.66	90.33	12.46	21.29
NAAQS, For 24 hourly		100	60	80	80

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Ambient Air Quality Data March 2023 to May 2023				AQ- 5	
S.No	Date	PM _{2.5} , µg/m ³	PM ₁₀ , µg/m ³	SO ₂ µg/m ³ ,	NO ₂ , µg/m ³
		IS:5182:Pt-23	Gravimetric	IS:5182:Pt-2	IS:5182:Pt-6
1	02-03-2023	43.2	75.38	8.3	15.2
2	06-03-2023	49.7	63.86	6.0	21.9
3	11-03-2023	50.3	76.62	9.4	14.9
4	15-03-2023	54.5	91.48	5.8	14.5
5	19-03-2023	48.8	76.45	8.9	20.4
6	23-03-2023	47.5	92.42	6.2	16.8
7	26-03-2023	43.2	83.86	7.8	15.8
8	29-03-2023	45.3	73.43	8.5	20.3
9	01-04-2023	49.3	74.70	6.8	15.8
10	05-04-2023	47.3	85.51	8.4	16.2
11	08-04-2023	46.5	78.90	9.9	19.7
12	12-04-2023	52.8	73.64	10.4	18.9
13	16-04-2023	58.5	86.78	11.8	16.3
14	20-04-2023	48.5	83.81	7.9	15.8
15	24-04-2023	40.2	81.92	5.7	17.2
16	27-04-2023	53.8	74.22	9.6	18.9
17	02-05-2023	54.5	73.78	6.8	15.7
18	05-05-2023	48.2	89.50	7.2	15.5
19	08-05-2023	53.6	64.49	8.6	14.9
20	12-05-2023	57.5	81.23	8.4	15.4
21	15-05-2023	52.5	67.45	7.6	15.8
22	18-05-2023	49.5	84.46	7.2	16.2
23	21-05-2023	50.38	79.23	7.6	15.7
24	25-05-2023	42.70	88.54	8.2	15.8
	Min	40.2	63.86	5.7	14.5
	Max	58.5	92.42	11.8	21.9
	Average	49.51	79.24	8.04	16.82
	98 Percentile	58.04	91.99	11.16	21.21
NAAQS, For 24 hourly		100	60	80	80

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Ambient Air Quality Data March 2023 to May 2023				AQ-6	
S.No	Date	PM _{2.5} , µg/m ³	PM ₁₀ , µg/m ³	SO ₂ µg/m ³ ,	NO ₂ µg/m ³
		IS:5182:Pt-23	Gravimetric	IS:5182:Pt-2	IS:5182:Pt-6
1	02-03-2023	46.2	74.29	6.1	16.7
2	06-03-2023	44.5	73.54	5.4	16.9
3	11-03-2023	51.5	75.25	7.2	16.7
4	15-03-2023	53.5	78.34	5.8	17.3
5	19-03-2023	48.5	73.80	5.2	18.4
6	23-03-2023	49.7	76.28	6.9	17.9
7	26-03-2023	50.5	82.56	8.7	17.4
8	29-03-2023	53.5	84.16	7.6	18.7
9	01-04-2023	48.6	78.18	5.2	16.3
10	05-04-2023	44.5	73.50	7.2	15.7
11	08-04-2023	52.2	78.28	8.4	15.3
12	12-04-2023	54.6	84.62	8.1	16.8
13	16-04-2023	49.5	80.29	6.9	15.9
14	20-04-2023	53.2	88.45	7.0	17.7
15	24-04-2023	48.6	90.24	8.3	17.3
16	27-04-2023	47.6	86.57	7.6	15.7
17	02-05-2023	46.5	79.90	5.6	14.2
18	05-05-2023	52.5	77.63	8.5	16.6
19	08-05-2023	50.5	76.62	9.7	19.2
20	12-05-2023	45.1	82.30	9.0	18.5
21	15-05-2023	50.1	76.85	11.9	19.8
22	18-05-2023	49.7	83.57	7.6	17.8
23	21-05-2023	51.4	76.90	9.8	18.2
24	25-05-2023	49.2	78.76	6.6	16.6
	Min	44.5	73.5	5.2	14.2
	Max	54.6	90.24	11.9	19.8
	Average	49.65	79.45	7.51	17.15
	98 Percentile	54.09	89.42	10.93	19.52
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Ambient Air Quality Data March 2023 to May 2023				AQ-7	
S.No	Date	PM _{2.5} , µg/m ³	PM ₁₀ , µg/m ³	SO ₂ µg/m ³ ,	NO ₂ µg/m ³
		IS:5182:Pt-23	Gravimetric	IS:5182:Pt-2	IS:5182:Pt-6
1	02-03-2023	47.3	76.38	7.6	17.4
2	06-03-2023	43.9	82.43	6.4	16.6
3	11-03-2023	47.4	78.37	6.2	17.3
4	15-03-2023	48.5	83.69	7.4	18.9
5	19-03-2023	49.5	82.67	8.5	18.2
6	23-03-2023	51.9	79.45	7.0	16.5
7	26-03-2023	50.8	82.76	8.4	19.8
8	29-03-2023	46.5	78.43	8.5	16.2
9	01-04-2023	48.9	83.79	6.8	18.8
10	05-04-2023	46.5	85.52	8.2	16.7
11	08-04-2023	49.5	81.67	8.6	17.7
12	12-04-2023	52.2	85.63	7.4	20.7
13	16-04-2023	44.5	77.56	6.3	18.2
14	20-04-2023	52.7	82.81	6.7	19.6
15	24-04-2023	48.7	76.99	9.8	20.7
16	27-04-2023	50.2	84.22	10.6	18.9
17	02-05-2023	52.5	79.70	6.9	19.6
18	05-05-2023	46.5	81.78	7.6	19.2
19	08-05-2023	52.5	85.49	7.1	18.3
20	12-05-2023	50.5	80.87	6.0	16.7
21	15-05-2023	48.5	73.45	5.6	17.2
22	18-05-2023	49.7	83.43	8.9	16.9
23	21-05-2023	50.38	74.23	7.9	19.3
24	25-05-2023	42.70	78.54	7.6	16.8
	Min	42.7	73.45	5.6	16.2
	Max	52.7	85.63	10.6	20.7
	Average	48.85	80.83	7.58	18.18
	98 Percentile	52.61	85.58	10.23	20.70
NAAQS, For 24 hourly		100	60	80	80

Free SiO₂:

SiO ₂	AAQ-1	AAQ-2	AAQ-3	AAQ-4	AAQ-5	AAQ-6	AAQ-7
Maximum	0.92	0.89	0.84	0.79	0.82	0.94	0.93
Minimum	0.80	0.75	0.61	0.72	0.63	0.82	0.89

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Test Report of	Report Code	Date of Issue
Ground Water Analysis	GW-250323-13	24-06-2023

Issue To : Maalik Transport Company, Proponent - Chandra Prakash Singh
Project Name Location : Sand Mining Project Block – 28 (Gaya Morhar- 15) Sand Ghat on Morhar River, at Village- Ahuri & Kathar, Tehsil/Anchal- Amas & Sherghati, District- Gaya, State-Bihar

Sample Received On : 27/03/2023
Sample Collected By : Laboratory (ITS)
Sample Description : Ground Water
Sample Quantity : 2.0 Lt. in pet bottle & 500ml sterilizes glass Bottle
Weather Conditions : Normal
Analysis Duration : 15/03/2023 To 25/03/2023

Test Results

S.No	Parameter	Results			Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
		Location					
		GW-1	GW-2	GW-3			
1	pH	6.25	7.04	6.14	-	6.5-8.5	-
2	Colour	<5.0	<5.0	<5.0	Hazen	5	15
3	Odour	Agreeable	Agreeable	Agreeable	-	Agreeable	Agreeable
4	Taste	Agreeable	Agreeable	Agreeable	-	Agreeable	Agreeable
5	Turbidity	<1.0	<1.0	<1.0	NTU	1	5
6	Total Hardness (as CaCO ₃)	248	345	394	mg/l	200	600
7	Calcium(as Ca)	49.81	71.94	82.45	mg/l	75	200
8	Magnesium(as Mg)	13.47	14.16	24.65	mg/l	30	100
9	Chloride(as Cl)	192.98	211.75	174.65	mg/l	250	1000
10	Iron(as Fe)	0.45	0.65	0.87	mg/l	0.3	No Relaxation
11	Fluoride(as F)	0.49	0.75	0.61	mg/l	1	1.5
12	Free Residual chlorine	<0.1	<0.1	<0.1	mg/l	0.2	1
13	Total Dissolved Solid	659	455	974	mg/l	500	2000
14	Phenolic Compound (as C ₆ H ₅ OH)	<0.001	<0.001	<0.001	mg/l	0.001max	0.002 Max
15	Anionic Detergents (as MBAS)	<0.1	<0.1	<0.1	mg/l	0.2	1.0

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16	Sulphate (as SO ₄)	47.35	52.35	60.48	mg/l	200	400
17	Nitrate (as NO ₃)	5.67	4.56	6.79	mg/l	45	No Relaxation
18	Alkalinity(as CaCO ₃)	247	415	486	mg/l	200	600
19	Chloramines (as Cl ₂)	< 1.0	< 1.0	< 1.0	mg/l	4	No Relaxation
20	Cadmium (as Cd)	<0.001	<0.001	<0.001	mg/l	0.003	No Relaxation
21	Lead (as Pb)	<0.01	<0.01	<0.01	mg/l	0.01	No Relaxation
22	Total Chromium (as Cr)	<0.01	<0.01	<0.01	mg/l	0.05	No Relaxation
23	Copper (as Cu)	<0.01	<0.01	<0.01	mg/l	0.05	1.5
24	Total Ammonia	<0.5	<0.5	<0.5	mg/l	0.5	No Relaxation
25	Nickel (as Ni)	<0.01	<0.01	<0.01	mg/l	0.02	0.2
26	Zinc (as Zn)	0.75	0.66	0.93	mg/l	5	15
27	Manganese (as Mn)	<0.1	<0.1	<0.1	mg/l	0.1	0.3
28	Boron (as B)	<0.1	<0.1	<0.1	mg/l	0.5	1
29	Selenium (Se)	<0.01	<0.01	<0.01	mg/l	0.01	No Relaxation
30	Arsenic (as As)	<0.01	<0.01	<0.01	mg/l	0.01	0.05

RESULTS As per IS 10500:2012

S.No	Parameter	Test Method	Results			Units	Requirements
			GW-1	GW-2	GW3		
1	E.coli	IS-1622	Not Detected (<2)	Not Detected (<2)	Not Detected (<2)	E.Coli/100ml	Shall not be detectable in 100 ml sample
2	Total Coliform	IS-1622	Absent	Absent	Absent	MPN/100ml	Shall not be detectable in 100 ml sample

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Test Report of	Report Code	Date of Issue
Ambient Noise	N-250523-13	24-06-2023

Issue To : Maalik Transport Company, Proponent - Chandra Prakash Singh
Project Name Location : Sand Mining Project Block – 28 (Gaya Morhar- 15) Sand Ghat on Morhar River, at Village- Ahuri & Kathar, Tehsil/Anchal- Amas & Sherghati, District- Gaya, State-Bihar

Sampling & Analysis Data

Sample Drawn by : Laboratory (ITS)
Sample Quantity : 24 Hrs
Sample Description : Ambient Noise

S.No.	PROJECT SITE	ZONE	Leq LIMIT (as per CPCB Guidelines), in dB(A)		Leq Value monitored, in dB(A)	
			DAY*	NIGHT*	DAY*	NIGHT*
1	NQ-1	Industrial Zone (Project Site)	75	70	50.5	43.8
2	NQ-2	Residential Zone	55	45	51.4	41.4
3	NQ-3	Residential Zone	55	45	50.8	43.5
4	NQ-4	Residential Zone	55	45	45.9	37.9
5	NQ-5	Residential Zone	55	45	53.7	34.2

* Day time Leq in dB(A) (6.00AM TO 10.00PM)
Night time Leq in dB(A) (10.00PM TO 6.00AM)

Checked by

Authorized Signatory

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ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in

+91 9911659800, 9305780312, 09958849764

Test Report of	Report Code	Date of Issue
Soil	SL-250523-14	24-06-2023

Issue To

Project Name Location

: Maalik Transport Company, Proponent - Chandra Prakash Singh
: Sand Mining Project Block – 28 (Gaya Morhar- 15) Sand Ghat on Morhar River, at Village- Ahuri & Kathar, Tehsil/Anchal- Amas & Sherghati, District- Gaya, State-Bihar

Sampling & Analysis Data

Sample Drawn by : Laboratory (ITS)
Sample Quantity : 2Kg (ZIP Polyethylene Bag)
Sample Description : Soil sample

Physico-chemical properties of soil

S.No	Parameter	Units	Result		
			Location		
			SQ-1	SQ-2	SQ-3
1	Texture	-	Clay Loam to Silty Loam	Clay Loam	Clay Loam
	Sand	%	45.65	34.27	42.46
	Clay	%	38.52	34.75	36.04
	Silt	%	13.60	30.46	21.39
2	pH(1:2.5 Suspension)	-	6.05	6.78	6.18
3	Electrical Conductivity	$\mu\text{mhos/cm}$	242.8	346.58	376.9
4	Potassium (as K)	mg/kg	153.56	162.56	150.65
5	Sodium (as Na)	mg/kg	240.49	138.69	135.25
6	Calcium (as Ca)	mg/kg	3890.52	4574.56	3658.25
7	Magnesium (as Mg)	mg/kg	685.80	553.37	752.45
8	Sodium Absorption Ratio	-	0.92	0.68	0.69
9	Water Holding Capacity	%	32.42	32.54	34.98
10	Total Kjeldahl Nitrogen	%	0.065	0.095	0.085
11	Phosphorous	mg/kg	62.44	53.12	55.65
12	Bulk Density	gm/cc	1.49	1.75	1.96
13	Organic Matter	%	0.85	1.48	1.68
14	Porosity	%	36.32	35.20	39.82

CHECKED BY

AUTHORIZED SIGNATORY

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Test Report of	Report Code	Date of Issue
Surface Water	ww- 250523-15	24-06-2023

Issue To

Project Name Location

: Maalik Transport Company, Proponent - Chandra Prakash Singh
: Sand Mining Project Block – 28 (Gaya Morhar- 15) Sand Ghat on Morhar River, at Village- Ahuri & Kathar, Tehsil/Anchal- Amas & Sherghati, District- Gaya, State-Bihar

Sampling & Analysis Data

Sample Drawn by

: Laboratory (ITS)

Sample Quantity

: 2litre In Pet Bottle and 500ml in sterilized glass Bottle

Sample Description

: Surface Water

Physico-Chemical Properties of Surface Water

S.No	Parameter	SW-1 Morhar River (Upstream)	SW-2 Morhar River (Downstream)	Units
1	pH	7.45	7.21	-
2	Temperature	18.4	17.6	°C
3	Turbidity	13.2	19.8	NTU
4	Conductivity @25°C	445	615.10	µs/cm.
5	Total Suspended Solid	36.2	29.7	mg/l
6	Total Alkalinity (as CaCO ₃)	145	197	mg/l
7	Biological Oxygen Demand (Max.) (at 270C for 3 days)	5.48	2.84	mg/l
8	Dissolved Oxygen (as O ₂) Min.	5.45	6.56	mg/l
9	Calcium(as Ca)	92.98	22.45	mg/l
10	Magnesium(as Mg)	48.48	13.32	mg/l
11	Chloride(as Cl),Max	64.40	55.48	mg/l
12	Iron(as Fe),Max	0.15	0.19	mg/l
13	Fluoride(as F),Max	0.65	1.18	mg/l
14	Total Dissolved Solid	645	343	mg/l
15	Total Hardness (as CaCO ₃)	195.00	145.65	mg/l
16	Sulphate (as SO ₄)Max	20.45	16.48	mg/l
17	Phosphate (as P)	0.09	<0.2	mg/l
18	Sodium (as Na)	49.45	28.54	mg/l

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19	Manganese (as Mn)	0.08	<0.1	mg/l
20	Total Chromium (as Cr)	<0.05	<0.05	mg/l
21	Zinc (as Zn)	1.46	0.89	mg/l
22	Potassium (as K)	2.98	4.16	mg/l
23	Nitrate (as NO ₃), Max	0.85	<0.5	mg/l
24	Cadmium (as Cd)	<0.01	<0.01	mg/l
25	Lead (as Pb)	<0.01	<0.01	mg/l
26	Copper (as Cu)	<0.01	<0.01	mg/l
27	Chemical Oxygen Demand (as O ₂)	25.0	16.65	mg/l
28	Arsenic (as As)	<0.01	<0.01	mg/l

RESULTS

S.No	Parameter	Test Method	Results	Units	Tolerance Limit as per IS:2296				
					Class A	Class B	Class C	Class D	Class E
SW-1	Total Coli Form	IS:1622	45	MPN/100ml	50	500	5000	-	-
SW-2	Total Coli Form	IS:1622	98	MPN/100ml	50	500	5000	-	-

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