

TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Within Project Site (A-1)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
01.03.2024	51.47	32.94	11.68	25.62	0.530
06.03.2024	53.94	30.41	12.11	32.14	0.480
13.03.2024	55.14	35.62	14.36	22.35	0.350
20.03.2024	57.94	33.63	15.02	21.47	0.520
16.03.2024	54.02	37.56	13.23	23.84	0.340
22.03.2024	55.04	29.89	10.86	20.06	0.490
27.03.2024	52.94	36.08	13.00	21.69	0.280
30.03.2024	57.20	33.84	12.17	24.07	0.360
04.04.2024	57.84	40.18	11.58	26.35	0.570
06.04.2024	53.94	38.02	11.25	20.04	0.530
11.04.2024	57.14	29.25	11.08	21.32	0.280
15.04.2024	55.68	26.30	18.24	28.05	0.380
18.04.2024	34.92	26.96	12.98	23.16	0.540
22.04.2024	33.98	32.54	10.88	28.53	0.370
25.04.2024	59.20	31.26	12.62	16.94	0.420
30.04.2024	53.84	36.57	12.68	18.23	0.560
01.05.2024	34.85	32.19	12.24	19.02	0.370
07.05.2024	54.14	35.75	10.89	21.02	0.480
08.05.2024	53.16	33.44	17.04	20.85	0.510
14.05.2024	50.90	27.02	11.19	26.52	0.280
15.05.2024	58.58	26.98	12.03	23.00	0.620
21.05.2024	56.90	33.63	12.73	27.24	0.340
23.05.2024	54.72	32.00	13.43	20.88	0.570
31.05.2024	53.94	29.53	14.06	23.48	0.280

NUMBER OF OBSERVATIONS	PM ₁₀ 24	PM _{2.5} 24	SO ₂ 24	NO ₂ 24	CO 24
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MAXIMUM CONCENTRATION	59.20	40.18	18.24	32.14	0.62
MINIMUM CONCENTRATION	33.98	26.30	10.86	16.94	0.28

PERCENTILE VALUE :	10	20	30	40	50	60	70	80	90	98
PM ₁₀	34.89	51.47	53.50	53.94	54.08	55.04	56.29	57.20	58.26	58.91
PM _{2.5}	26.97	29.25	30.15	32.00	32.74	33.63	34.73	36.08	37.79	39.19
SO ₂	10.95	11.23	11.67	12.12	12.43	12.72	13.02	13.68	14.82	17.69
NO ₂	19.33	20.53	21.01	21.51	22.68	23.42	24.23	26.42	27.81	49.94
CO	0.28	0.34	0.34	0.37	0.45	0.49	0.52	0.53	0.57	0.60

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm ----End of Report----

Verified By

Abhishek Kumar
Technical Manager
(Vikas Kumar)

Authorized By

Abhishek Kumar Singh
Quality Manager
(Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Atimi Village (A-2)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

DATE	24 HOURLY									
	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO	
01.03.2024	50.14		27.15		12.88		21.14		0.520	
06.03.2024	51.42		24.37		10.23		19.08		0.400	
13.03.2024	44.84		24.96		13.07		20.76		0.379	
20.03.2024	54.01		29.72		10.31		23.81		0.520	
16.03.2024	52.52		25.60		13.42		18.96		0.444	
22.03.2024	43.83		24.24		15.04		23.88		0.380	
27.03.2024	54.10		28.61		10.23		14.72		0.387	
30.03.2024	54.84		31.72		11.04		22.33		0.520	
04.04.2024	52.94		33.94		11.88		20.88		0.360	
06.04.2024	50.94		31.32		11.74		27.42		0.390	
11.04.2024	51.90		27.61		11.00		21.15		0.510	
15.04.2024	61.08		30.34		12.48		20.63		0.520	
18.04.2024	51.94		26.35		10.99		23.68		0.272	
22.04.2024	41.04		24.96		11.02		24.10		0.412	
25.04.2024	54.10		35.00		13.52		21.12		0.329	
30.04.2024	51.82		27.00		12.73		18.25		0.290	
01.05.2024	38.42		26.78		10.78		19.74		0.399	
07.05.2024	53.20		25.94		11.83		23.17		0.390	
08.05.2024	50.87		28.25		10.08		19.03		0.418	
14.05.2024	52.70		31.89		11.17		23.94		0.480	
15.05.2024	50.28		29.30		16.82		18.62		0.394	
21.05.2024	51.36		28.70		10.64		22.30		0.390	
23.05.2024	53.48		24.12		12.06		26.16		0.500	
31.05.2024	51.94		25.90		14.08		19.17		0.354	

	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
NUMBER OF OBSERVATIONS	24	24	24	24	24

MAXIMUM CONCENTRATION	61.08	35.00	16.82	27.42	0.52
MINIMUM CONCENTRATION	38.42	24.12	10.08	14.72	0.27

PERCENTILE VALUE :										
	10	20	30	40	50	60	70	80	90	98
PM ₁₀	42.43	50.14	50.91	51.42	51.92	52.52	53.07	54.01	54.47	58.21
PM _{2.5}	24.31	24.96	25.92	26.78	27.38	28.61	29.51	31.32	32.91	34.51
SO ₂	10.25	10.72	11.00	11.07	11.78	12.02	12.75	13.21	13.91	16.00
NO ₂	18.72	19.06	19.69	20.78	21.13	22.07	23.22	23.84	24.05	43.76
CO	0.34	0.37	0.37	0.39	0.40	0.41	0.45	0.50	0.52	0.52

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

- Test results relate to the items sampled & tested.
- Test report shall not be reproduced except in full without approval of the laboratory.
- The test samples will be disposed of after one Month from the date of issue of test report.
- All units are µg/m³ except CO is mentioned in ppm

---End of Report---

Verified By

Technical Manager

(Vikas Kumar)

Authorized By

Quality Manager

(Dr. Abhishek Kumar Singh)

TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Dhapachhuha Village (A-3)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

DATE	24 HOURLY							
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO			
01.03.2024	50.94	31.46	11.12	21.35	0.554			
06.03.2024	52.42	27.48	13.52	20.36	0.414			
13.03.2024	51.72	31.96	9.82	20.14	0.526			
20.03.2024	49.25	29.07	10.72	23.42	0.470			
16.03.2024	50.87	32.04	11.56	20.94	0.524			
22.03.2024	48.74	27.19	13.56	21.04	0.505			
27.03.2024	53.48	30.56	10.74	23.14	0.474			
30.03.2024	50.74	30.86	9.56	18.47	0.536			
04.04.2024	52.84	31.46	9.68	21.50	0.410			
06.04.2024	51.48	29.80	10.02	22.98	0.420			
11.04.2024	51.02	32.52	11.36	20.68	0.497			
15.04.2024	53.02	27.10	12.35	22.47	0.455			
18.04.2024	53.94	31.48	11.20	21.34	0.359			
22.04.2024	32.07	21.79	10.56	19.74	0.352			
25.04.2024	51.86	31.56	10.30	18.55	0.408			
30.04.2024	51.34	29.56	13.62	20.41	0.415			
01.05.2024	53.28	32.86	10.54	23.06	0.280			
07.05.2024	51.02	32.25	9.16	23.42	0.560			
08.05.2024	47.34	27.14	11.62	19.84	0.368			
14.05.2024	49.84	28.02	11.65	22.14	0.280			
15.05.2024	51.14	23.98	13.68	20.16	0.390			
21.05.2024	54.72	31.02	10.94	18.92	0.379			
23.05.2024	52.02	27.13	8.68	19.34	0.396			
31.05.2024	53.84	26.89	9.14	21.24	0.449			

NUMBER OF OBSERVATIONS	PM ₁₀ 24	PM _{2.5} 24	SO ₂ 24	NO ₂ 24	CO 24
MAXIMUM CONCENTRATION	54.72	32.86	13.68	23.42	0.56
MINIMUM CONCENTRATION	32.07	21.79	8.68	18.47	0.28

PERCENTILE VALUE :										
	10	20	30	40	50	60	70	80	90	98
PM ₁₀	48.04	49.84	50.91	51.02	51.41	51.86	52.63	53.28	53.89	54.36
PM _{2.5}	25.44	27.13	27.34	29.07	30.18	31.02	31.47	31.96	32.39	32.70
SO ₂	9.28	9.76	10.27	10.59	10.84	11.18	11.57	11.93	13.55	13.65
NO ₂	19.05	19.80	20.16	20.46	20.99	21.32	21.56	22.67	23.12	42.70
CO	0.35	0.37	0.37	0.41	0.42	0.45	0.48	0.51	0.53	0.56

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

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3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm

----End of Report----

Verified By

(Signature)
Technical Manager
(Vikas Kumar)

Authorized By

(Signature)
Quality Manager
(Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Tetrahar Village (A-4)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

DATE	24 HOURLY					
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	
01.03.2024	47.25	24.18	14.26	21.84	0.458	
06.03.2024	49.36	27.88	13.94	19.41	0.476	
13.03.2024	50.14	30.15	17.2	24.16	0.403	
20.03.2024	46.92	26.84	13.65	26.87	0.546	
16.03.2024	43.68	29.04	13.24	21.56	0.740	
22.03.2024	43.56	26.34	17.36	24.88	0.333	
27.03.2024	50.04	30.16	13.52	24.63	0.724	
30.03.2024	47.14	25.86	12.58	20.62	0.804	
04.04.2024	50.36	23.25	16.4004	25.36	0.310	
06.04.2024	49.14	29.56	16.32	20.14	0.417	
11.04.2024	50.48	24.56	14.3924	25.47	0.550	
15.04.2024	47.86	29.68	14.2	23.62	0.390	
18.04.2024	50	19.78	18.62	22.14	0.630	
22.04.2024	50.36	21.68	11.3684	25	0.285	
25.04.2024	48.26	27.86	13.2332	24.62	0.458	
30.04.2024	50.96	30.14	11.84	24.97	0.408	
01.05.2024	50.34	25.85	13.0064	21.68	0.458	
07.05.2024	31.24	28.6	15.476	25.94	0.462	
08.05.2024	41.08	26.38	14.16	27.58	0.560	
14.05.2024	47.65	27.64	16.4084	24.15	0.493	
15.05.2024	50.04	30.14	13.334	23.14	0.256	
21.05.2024	46.88	29.65	11.4314	20.58	0.462	
23.05.2024	50.14	28.74	14.5184	21.47	0.536	
31.05.2024	45.86	24.56	13.8128	25.02	0.465	

NUMBER OF OBSERVATIONS	PM ₁₀ 24	PM _{2.5} 24	SO ₂ 24	NO ₂ 24	CO 24
MAXIMUM CONCENTRATION	50.96	30.16	18.62	27.58	0.80
MINIMUM CONCENTRATION	31.24	19.78	11.37	19.41	0.26

PERCENTILE VALUE :		10	20	30	40	50	60	70	80	90	98
PM ₁₀		42.32	45.86	47.03	47.65	48.70	50.00	50.09	50.34	50.42	50.74
PM _{2.5}		22.47	24.56	25.86	26.38	27.75	28.60	29.30	29.68	30.15	30.16
SO ₂		12.06	13.14	13.32	13.68	14.05	14.25	14.61	16.35	16.96	18.04
NO ₂		20.59	21.52	21.82	23.24	24.16	24.63	24.97	25.16	25.80	39.47
CO		0.32	0.40	0.40	0.46	0.46	0.47	0.54	0.55	0.70	0.77

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

- Test results relate to the items sampled & tested.
- Test report shall not be reproduced except in full without approval of the laboratory.
- The test samples will be disposed of after one Month from the date of issue of test report.
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----End of Report----

Verified By

Technical Manager
(Vikas Kumar)

Authorized By

Quality Manager

(Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Kukurbhuka Village (A-5)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO	
04.03.2024	46.52		26.09		12.29		21.40		0.390	
08.03.2024	53.69		26.35		11.02		24.36		0.359	
11.03.2024	41.06		22.96		8.00		23.56		0.356	
15.03.2024	48.64		24.77		9.04		20.36		0.359	
18.03.2024	45.64		27.66		12.65		20.14		0.526	
22.03.2025	34.68		24.29		14.28		23.60		0.256	
25.03.2024	50.64		26.57		11.98		22.00		0.710	
29.03.2024	54.37		24.92		13.62		19.36		0.316	
02.04.2024	55.05		24.52		9.79		20.06		0.344	
05.04.2024	52.37		23.65		8.88		24.12		0.316	
09.04.2024	48.64		26.35		12.49		23.08		0.536	
12.04.2024	52.96		25.25		9.70		22.14		0.319	
16.04.2024	52.81		24.25		14.06		24.02		0.343	
19.04.2024	46.76		23.96		11.83		15.92		0.385	
23.04.2024	47.26		24.14		11.62		22.56		0.533	
26.04.2024	51.29		34.26		11.27		23.65		0.399	
04.05.2024	48.84		23.70		9.01		19.92		0.724	
06.05.2024	50.09		26.32		8.43		24.23		0.682	
11.05.2024	46.67		24.62		8.06		21.88		0.308	
13.05.2024	51.87		23.96		11.92		21.45		0.402	
18.05.2024	47.56		24.15		13.58		23.52		0.368	
20.05.2024	50.69		23.56		11.34		16.88		0.424	
25.05.2024	46.21		27.54		9.50		20.36		0.414	
27.05.2024	54.00		27.14		10.09		19.97		0.346	

NUMBER OF OBSERVATIONS PM₁₀ PM_{2.5} SO₂ NO₂ CO

24 24 24 24 24

MAXIMUM CONCENTRATION 55.05 34.26 14.28 24.36 0.72

MINIMUM CONCENTRATION 34.68 22.96 8.00 15.92 0.26

PERCENTILE VALUE :

	10	20	30	40	50	60	70	80	90	98
PM ₁₀	43.35	46.52	47.01	48.64	49.46	50.69	52.12	52.96	54.19	54.74
PM _{2.5}	23.61	23.96	24.15	24.29	24.70	25.25	26.34	26.57	27.60	31.22
SO ₂	8.57	9.03	9.68	10.28	11.31	11.79	12.01	12.55	13.61	14.18
NO ₂	19.53	20.02	20.34	21.41	21.94	22.48	23.52	23.62	24.09	45.36
CO	0.32	0.33	0.33	0.36	0.38	0.40	0.42	0.53	0.64	0.72

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

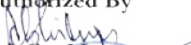
Note:

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2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm

---End of Report---

Verified By

 Technical Manager
 (Vikas Kumar)

Authorized By

 Quality Manager
 (Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Mahadeoganj Village (A-6)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

DATE	24 HOURLY									
	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO	
04.03.2024	44.19		24.78		11.68		18.56		0.530	
08.03.2024	51.01		21.28		10.47		14.65		0.600	
11.03.2024	39.01		20.30		7.60		19.23		0.400	
15.03.2024	46.21		23.53		8.59		17.88		0.430	
18.03.2024	43.36		26.27		12.02		20.14		0.500	
22.03.2025	36.18		23.07		13.57		16.35		0.490	
25.03.2024	48.11		25.24		11.38		20.02		0.560	
29.03.2024	51.65		23.67		12.94		17.86		0.400	
02.04.2024	52.30		20.10		9.30		19.06		0.490	
05.04.2024	49.76		18.73		8.44		15.86		0.560	
09.04.2024	46.20		20.46		11.86		13.72		0.509	
12.04.2024	50.31		17.24		9.21		19.26		0.440	
16.04.2024	50.17		16.37		13.36		20.10		0.560	
19.04.2024	44.42		22.76		11.24		17.46		0.470	
23.04.2024	44.90		21.63		11.04		18.32		0.506	
26.04.2024	48.73		25.58		10.71		20.28		0.450	
04.05.2024	33.86		17.68		8.56		20.46		0.530	
06.05.2024	47.58		25.01		8.01		16.35		0.560	
11.05.2024	44.34		23.39		7.66		19.05		0.510	
13.05.2024	49.27		18.99		11.33		17.22		0.570	
18.05.2024	45.18		16.54		12.90		13.95		0.430	
20.05.2024	48.15		21.27		10.78		20.14		0.520	
25.05.2025	43.90		26.16		9.02		20.00		0.520	
27.05.2024	51.30		20.66		9.59		16.88		0.410	

NUMBER OF OBSERVATIONS	PM ₁₀ 24	PM _{2.5} 24	SO ₂ 24	NO ₂ 24	CO 24
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MAXIMUM CONCENTRATION	52.30	26.27	13.57	20.46	0.60
MINIMUM CONCENTRATION	33.86	16.37	7.60	13.72	0.40

PERCENTILE VALUE :										
	10	20	30	40	50	60	70	80	90	98
PM ₁₀	37.59	43.90	44.38	45.18	46.89	48.15	49.51	50.31	51.48	52.00
PM _{2.5}	16.89	18.73	20.20	20.66	21.45	23.07	23.60	25.01	25.87	26.22
SO ₂	8.14	8.58	9.19	9.76	10.74	11.20	11.41	11.92	12.93	13.47
NO ₂	15.01	16.35	17.19	17.86	18.44	19.06	19.33	20.05	20.14	25.31
CO	0.42	0.44	0.44	0.49	0.51	0.52	0.53	0.56	0.56	0.59

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm

---End of Report---

Verified By
Technical Manager
(Vikas Kumar)

Authorized By
Quality Manager
(Dr. Abhishek Kumar Singh)

TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Pawanrpur Village (A-7)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

DATE	24 HOURLY									
	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO	
04.03.2024	45.63		25.31		9.99		22.14		0.541	
08.03.2024	47.57		24.01		11.07		22.94		0.324	
11.03.2024	48.67		23.92		12.94		21.06		0.435	
15.03.2024	53.02		28.14		14.32		19.17		0.574	
18.03.2024	53.41		27.16		11.91		15.33		0.350	
22.03.2025	52.00		24.55		10.45		21.36		0.396	
25.03.2024	53.78		24.56		15.69		22.90		0.303	
29.03.2024	54.08		24.01		12.58		15.20		0.397	
02.04.2024	52.84		26.50		13.35		18.85		0.321	
05.04.2024	51.18		24.62		10.16		20.18		0.350	
09.04.2024	50.66		26.19		11.74		17.80		0.311	
12.04.2024	52.94		30.14		10.53		19.34		0.463	
16.04.2024	51.42		26.13		12.60		16.38		0.284	
19.04.2024	53.25		30.12		10.05		16.17		0.275	
23.04.2024	48.72		25.14		16.39		22.99		0.312	
26.04.2024	47.13		23.94		12.94		16.06		0.397	
04.05.2024	47.75		24.33		13.49		16.34		0.447	
06.05.2024	51.30		23.94		11.48		15.53		0.350	
11.05.2024	31.74		23.78		13.49		18.35		0.422	
13.05.2024	54.01		27.34		16.28		21.09		0.350	
18.05.2024	51.96		23.73		14.84		22.15		0.270	
20.05.2024	43.94		28.96		11.53		17.29		0.417	
25.05.2025	44.91		25.63		13.25		19.99		0.355	
27.05.2024	40.94		24.68		9.99		23.94		0.303	

NUMBER OF OBSERVATIONS	PM ₁₀ 24	PM _{2.5} 24	SO ₂ 24	NO ₂ 24	CO 24
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MAXIMUM CONCENTRATION	54.08	30.14	16.39	23.94	0.57
MINIMUM CONCENTRATION	31.74	23.73	9.99	15.20	0.27

PERCENTILE VALUE :										
	10	20	30	40	50	60	70	80	90	98
PM ₁₀	42.44	45.63	47.66	48.72	51.24	51.96	52.89	53.25	53.89	54.05
PM _{2.5}	23.85	23.94	24.17	24.56	24.91	25.63	26.35	27.34	29.54	30.13
SO ₂	10.08	10.50	11.44	11.78	12.59	12.94	13.36	13.82	15.44	16.34
NO ₂	15.69	16.27	17.20	18.45	19.26	20.14	21.12	22.14	22.93	20.25
CO	0.29	0.31	0.31	0.35	0.35	0.39	0.40	0.43	0.46	0.56

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm

----End of Report----

Verified By

(Signature)
Technical Manager
(Vikas Kumar)

Authorized By

(Signature)
Quality Manager
(Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Bisuwa Village (A-8)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

DATE	24 HOURLY									
	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO	
04.03.2024	53.68		24.32		12.01		23.20		0.447	
08.03.2024	45.06		27.42		11.42		25.06		0.346	
11.03.2024	49.37		29.22		11.09		23.63		0.630	
15.03.2024	53.62		28.11		12.50		24.40		0.590	
18.03.2024	54.58		25.80		12.45		23.85		0.402	
22.03.2024	50.96		27.52		13.41		24.69		0.542	
25.03.2024	55.36		24.50		14.02		23.14		0.376	
29.03.2024	52.56		28.39		11.56		25.42		0.502	
02.04.2024	47.88		22.15		12.88		19.44		0.561	
05.04.2024	51.12		24.21		14.08		25.00		0.340	
09.04.2024	51.76		22.46		10.58		24.98		0.402	
12.04.2024	46.13		24.90		12.44		24.77		0.370	
16.04.2024	56.15		32.84		12.83		22.68		0.650	
19.04.2024	52.96		27.20		7.81		23.24		0.357	
23.04.2024	39.00		19.86		11.71		21.68		0.506	
26.04.2024	40.14		25.59		13.51		23.68		0.413	
04.05.2024	48.20		24.96		12.75		24.04		0.343	
06.05.2024	39.92		23.96		11.03		15.08		0.397	
11.05.2024	42.10		22.19		13.45		21.56		0.360	
13.05.2024	48.56		25.92		12.48		24.65		0.420	
18.05.2024	46.78		25.02		13.86		22.98		0.346	
20.05.2024	39.78		25.61		11.72		25.01		0.456	
25.05.2024	40.28		26.35		12.53		23.24		0.483	
27.05.2024	41.22		24.47		11.00		22.41		0.376	
NAAQMS Standards	100.00		60.00		80.00		80.00		2.00	
NUMBER OF OBSERVATIONS										
			PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO			
			24	24	24	24	24			
MAXIMUM CONCENTRATION										
			56.15	32.84	14.08	25.42	0.650			
MINIMUM CONCENTRATION										
			39.00	19.86	7.81	15.08	0.340			
PERCENTILE VALUE :										
	10	20	30	40	50	60	70	80	90	98
PM ₁₀	39.85	40.28	43.58	46.78	48.38	50.96	52.16	53.62	54.97	55.79
PM _{2.5}	22.17	23.96	24.39	24.90	25.30	25.80	26.77	27.52	28.81	31.17
SO ₂	11.01	11.28	11.69	12.09	12.47	12.52	12.84	13.43	13.76	14.05
NO ₂	21.60	22.57	23.12	23.24	23.65	24.00	24.65	24.85	25.01	43.95
CO	0.35	0.36	0.36	0.40	0.41	0.44	0.48	0.52	0.58	0.64

Note: All units are µg/m³ except CO is mentioned in ppm

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm

---End of Report---

Verified By

Technical Manager

(Vikas Kumar)

Authorized By

Quality Manager

(Dr. Abhishek Kumar Singh)

TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Nawanagar (A-9)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

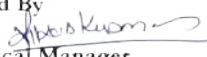
DATE	24 HOURLY									
	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO	
04.03.2024	53.620		23.141		13.62		18.97		0.458	
08.03.2024	56.940		21.499		16.03		20.26		0.476	
11.03.2024	51.470		23.897		14.42		17.46		0.403	
15.03.2024	53.680		26.942		15.20		18.00		0.546	
18.03.2024	55.240		25.214		13.52		18.48		0.740	
22.03.2024	49.860		22.464		15.20		20.73		0.333	
25.03.2024	52.488		19.397		15.34		19.56		0.496	
29.03.2024	56.920		25.600		14.16		19.65		0.804	
02.04.2024	60.180		23.680		15.34		18.56		0.310	
05.04.2024	57.860		29.780		14.06		21.28		0.417	
09.04.2024	40.250		23.342		13.94		18.29		0.550	
12.04.2024	58.600		28.250		13.74		16.88		0.390	
16.04.2024	53.620		24.360		15.06		19.02		0.395	
19.04.2024	57.160		25.920		16.92		21.42		0.285	
23.04.2024	53.453		24.293		14.65		27.50		0.458	
26.04.2024	46.140		22.219		13.88		17.68		0.408	
04.05.2024	50.920		22.160		19.70		25.56		0.458	
06.05.2024	34.920		22.320		17.01		16.20		0.378	
11.05.2024	54.144		23.155		14.32		20.36		0.315	
13.05.2024	48.874		19.960		17.24		29.42		0.493	
18.05.2024	56.390		23.069		14.52		17.49		0.256	
20.05.2024	51.480		19.745		13.96		16.94		0.462	
25.05.2024	43.920		20.880		15.08		18.04		0.413	
27.05.2024	53.860		27.043		13.88		20.05		0.465	
NAAQMS Standards	100.00		60.00		80.00		80.00		2.00	
NUMBER OF OBSERVATIONS			PM ₁₀ 24	PM _{2.5} 24	SO ₂ 24	NO ₂ 24	CO 24			
MAXIMUM CONCENTRATION			60.18	29.78	19.70	29.42	0.804			
MINIMUM CONCENTRATION			34.92	19.40	13.52	16.20	0.256			
PERCENTILE VALUE :										
	10	20	30	40	50	60	70	80	90	98
PM ₁₀	42.09	48.87	51.20	52.49	53.62	53.86	55.82	56.94	58.23	59.45
PM _{2.5}	19.85	21.50	22.27	23.07	23.25	23.90	24.79	25.92	27.65	29.08
SO ₂	13.78	13.92	14.05	14.34	14.59	15.08	15.21	15.62	16.98	18.57
NO ₂	17.10	17.60	18.04	18.50	19.00	19.63	20.27	20.95	24.32	31.21
CO	0.31	0.36	0.36	0.41	0.44	0.46	0.47	0.49	0.55	0.77
Note:	All units are µg/m ³ except CO is mentioned in ppm									

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm

---End of Report---

Verified By

 Technical Manager
 (Vikas Kumar)

Authorized By

 Quality Manager
 (Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/10

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar		Test Report No.	ECO/LAB/AA/0032/3-5/2024
			Issue Date of Test Report	05.06.2024
Type of Sample	Ambient Air			
Sample Registration No.	0032		Name of Location	Bhadar Village (A-10)
Sampling Method	As per Reference Method		Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024		Time of Sample Collection	-
Date of Sample Received	-		Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024		End Date of Analysis	05.06.2024
Weather Condition	Sunny		Sampling Duration	24 Hrs.
Environmental Condition	Temperature:	25 ± 2 °C	Sample ID Code	ECO/LAB/0032/3-5/2024
	Humidity:	56 %		

DATE	24 HOURLY									
	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO	
04.03.2024	45.46		19.68		16.25		17.13		0.554	
08.03.2024	50.33		23.56		9.89		19.20		0.414	
11.03.2024	44.19		21.78		12.53		20.05		0.526	
15.03.2024	42.14		26.53		8.54		23.62		0.335	
18.03.2024	46.35		25.14		11.25		18.00		0.524	
22.03.2024	42.94		21.49		10.06		17.02		0.505	
25.03.2024	45.94		25.71		12.29		16.56		0.474	
29.03.2024	44.50		20.36		9.39		19.01		0.331	
02.04.2024	40.19		21.46		13.06		16.79		0.306	
05.04.2024	37.89		22.05		10.04		14.08		0.593	
09.04.2024	51.74		20.27		10.79		18.56		0.497	
12.04.2024	47.33		20.87		11.00		17.36		0.455	
16.04.2024	50.67		24.78		9.89		14.95		0.359	
19.04.2024	42.08		20.63		9.45		18.36		0.294	
23.04.2024	47.26		20.84		11.31		17.06		0.282	
26.04.2024	39.01		18.96		10.97		16.98		0.230	
04.05.2024	41.64		23.16		9.13		15.74		0.740	
06.05.2024	35.01		17.84		11.73		18.02		0.378	
11.05.2024	39.52		20.42		13.68		24.54		0.315	
13.05.2024	46.21		22.86		14.58		21.36		0.369	
18.05.2024	44.16		19.23		12.96		17.22		0.256	
20.05.2024	49.20		23.65		10.68		18.90		0.379	
25.05.2024	51.56		26.18		10.36		17.02		0.244	
27.05.2024	42.06		21.76		12.62		17.18		0.449	
NAAQMS Standards	100.00		60.00		80.00		80.00		2.00	

NUMBER OF OBSERVATIONS PM₁₀ PM_{2.5} SO₂ NO₂ CO
24 24 24 24 24

MAXIMUM CONCENTRATION			51.74	26.53	16.25	24.54	0.740			
MINIMUM CONCENTRATION			35.01	17.84	8.54	14.08	0.230			
PERCENTILE VALUE :										
10		20	30	40	50	60	70	80	90	98
PM ₁₀	38.45	40.19	42.07	42.94	44.34	45.94	46.81	49.20	51.12	51.66
PM _{2.5}	19.10	20.27	20.52	20.87	21.62	22.05	23.36	24.78	25.95	26.37
SO ₂	9.41	9.89	10.05	10.70	10.99	11.30	12.31	12.76	13.49	15.48
NO ₂	15.99	16.90	17.02	17.14	17.29	18.02	18.59	19.09	20.97	19.74
CO	0.26	0.30	0.30	0.36	0.38	0.44	0.48	0.51	0.55	0.67
Note:	All units are µg/m ³ except CO is mentioned in ppm									

Statement of Conformity: Analyzed parameters in above tested sample are within standard limit as per NAAQMS Guidelines.

Note:

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.
4. All units are µg/m³ except CO is mentioned in ppm

----End of Report----

Verified By

 Technical Manager
 (Vikas Kumar)

Authorized By

 Quality Manager
 (Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/13

NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/AN/0032/3-5/2024
		Issue Date of Test Report	06.06.2024
Type of Sample	Ambient Noise		
Sample Registration No.	0032	Name of Location	-
Sampling Method	IS:9989	Sample Collected By	EMPL Representative
Date of Sample Collection	01.03.2024 to 31.05.2024	Time of Sample Collection	-
Date of Sample Received	-	Time of Sample Received	-
Start Date of Analysis	01.03.2024 to 31.05.2024	End Date of Analysis	05.06.2024
Weather Condition	Clear	Sampling Duration	24 Hourly Basis
Laboratory Environmental Condition	Temperature: 25±2 °C	Sample ID Code	ECO/LAB0032/3-5/2024
	Humidity: 52 %		
Instrument Name & Lab ID	Sound Level Meter	ECO/LSM/02 Calibration Due Date: (31.05.2025)	

Location	Area Type	Day (0600-2200 hours)				Night (2200-0600 hours)			
		Norm	Max.	Min.	Mean*	Norm	Max.	Min.	Mean*
N1: Kendriya Vidyalaya	Silence	50	48.50	39.80	44.90	40	38.20	33.74	36.80
N2: Near High School	Silence	50	45.80	37.8	42.93	40	39.60	35.40	37.35
N3: Atimi Village	Residential	55	51.8	45.6	49.7	45	40.10	36.2	38.9
N4: Bhadar Village	Residential	55	53.8	40.1	46.3	45	42.5	36.4	39.8
N5 : Nokhpur Village	Residential	55	51.6	42.3	48.9	45	43.9	38.1	41.6
N6 : Kukurbhuka Village	Residential	55	52.8	39.4	52.0	45	42.8	36.8	40.6
N7: Mahadeoganj	Residential	55	53.9	41.8	48.5	45	41.7	37.8	39.9
N8 : Tetrahar	Residential	55	51.2	38.6	47.0	45	43.2	37.3	40.6

All values in dB(A); * Logarithmic Averages

Opinion/Observation: Noise Level is meeting requirements as per CPCB Guidelines.

----End of Report----

Verified By

Technical Manager

(Vikas Kumar)

Authorized By

Quality Manager

(Dr. Abhishek Kumar Singh)



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/0626/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Near Project Site, Kendriya Vidyalaya (GW-1)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0626/05/2024

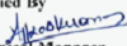
Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	26.5	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130-A+B	1-100	1.10	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	923.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 - 12	7.56	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	563.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5-1500	212.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	232.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 - 1000	62.40	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 - 1000	18.47	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	23.50	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.44	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 - 1000	32.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1 - 250	26.40	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5 - 100	5.23	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05 -10	0.38	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02 -50	0.16	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1- 5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02 -50	0.09	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001- 10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05 -10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per IS 10500:2012(Reaff:2018) limits for above tested parameters.

Note-

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

 Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/0627/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Near Project Site, High school (GW-2)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0627/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	26.1	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130 A+B	1-100	1.32	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	778.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 - 12	7.61	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	475.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5 -1500	172.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 -1500	192.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 -1000	48.00	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 -1000	17.50	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	21.20	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	2.21	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 -1000	32.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1 - 250	21.20	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5 -100	5.64	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05-10	0.42	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.17	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1-5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.05	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001- 10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05 -10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per IS 10500:2012(Reaff:2018) limits for above tested parameters.

Note-

- Test results relate to the items sampled & tested.
- Test report shall not be reproduced except in full without approval of the laboratory.
- The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/0628/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Kukurbhuka Village (GW-3)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0628/05/2024

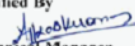
Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	26.2	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130-A+B	1-100	1.13	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	851.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 - 12	6.65	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	519.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5-1500	180.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	192.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5-1000	54.40	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5-1000	13.61	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	32.40	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.52	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5-1000	34.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1-250	32.20	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5-100	6.31	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05-10	0.39	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.15	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1-5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.13	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001-10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05-10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per IS 10500:2012(Reaff:2018) limits for above tested parameters.

Note-

- Test results relate to the items sampled & tested.
- Test report shall not be reproduced except in full without approval of the laboratory.
- The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

 Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District:-Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/0629/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Atimi Village (GW-4)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0629/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	25.5	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130-A+B	1-100	1.28	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	735.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 - 12	7.77	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	448.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5-1500	172.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	192.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 - 1000	46.40	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 - 1000	18.47	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	16.50	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.24	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 - 1000	22.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1 - 250	21.30	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5 - 100	6.21	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05-10	0.36	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.21	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1-5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.12	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001- 10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05 -10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per **IS 10500:2012(Reaff:2018)** limits for above tested parameters.

Note-

- Test results relate to the items sampled & tested.
- Test report shall not be reproduced except in full without approval of the laboratory.
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---End of Report---

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/0630/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Nawanagar (GW-5)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0630/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	25.6	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130-A+B	1-100	1.24	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	887.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 -12	7.53	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 -5000	541.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5-1500	212.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 -1500	240.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5-1000	60.80	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5-1000	21.38	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	15.30	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	2.30	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5-1000	30.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1-250	17.40	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5-100	7.21	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05-10	0.31	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.34	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1-5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.06	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001- 10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05-10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per **IS 10500:2012(Reaff:2018)** limits for above tested parameters.

Note-

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---End of Report---

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/0631/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Kesath Village (GW-6)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0631/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	25.8	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5 -100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130-A+B	1-100	1.42	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	901.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 - 12	7.78	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	549.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5 -1500	208.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	228.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 - 1000	52.80	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 - 1000	23.33	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	22.40	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.65	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 - 1000	30.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1 - 250	24.30	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5 - 100	8.40	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05 -10	0.41	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02 -50	0.42	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1- 5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02 -50	0.13	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001- 10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05 -10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per **IS 10500:2012(Reaff:2018)** limits for above tested parameters.

Note-

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---End of Report---

Verified By

 Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/0632/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Athar Village (GW-7)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0632/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	26.3	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130-A+B	1-100	1.17	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	819.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 - 12	7.32	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	499.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5-1500	204.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 -1500	208.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 -1000	49.60	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 -1000	20.41	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	21.20	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.11	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 -1000	20.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1 - 250	18.50	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5 - 100	6.45	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05 -10	0.39	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.47	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1-5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.12	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001- 10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05 -10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per **IS 10500:2012(Reaff:2018)** limits for above tested parameters.

Note-

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---End of Report---

Verified By
[Signature]
Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/GW/0555/633/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Ground Water		
Sample Registration No.	0555	Name of Location	Tetrahar Village (GW-8)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0633/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	INDIAN STANDARDS as per IS 10500:2012 (Reaff:2018)	
						Desirable	Permissible
1.	Temperature	°C	APHA, 24th Ed. : 2023, 2550 A+B	5-80	25.5	-	-
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	<5.0	5	15
3.	Odour	-	APHA, 24th Ed. : 2023, 2150 B	Qualitative	Agreeable	Agreeable	Agreeable
4.	Taste	-	APHA, 24th Ed. : 2023, 2160 A+B	Qualitative	Agreeable	Agreeable	Agreeable
5.	Turbidity	NTU	APHA, 24th Ed. : 2023, 2130-A+B	1-100	1.20	1	5
6.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	667.0	-	-
7.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 - 12	7.71	6.5-8.5	No Relax
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	406.0	500	2000
9.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5 -1500	156.00	200	600
10.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	164.00	200	600
11.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 - 1000	46.40	75	200
12.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 - 1000	11.66	30	100
13.	Sodium as Na	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	18.90	-	-
14.	Potassium as K	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	2.34	-	-
15.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 - 1000	20.00	250	1000
16.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ ²⁻ E	1 - 250	19.30	200	400
17.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ ²⁻ E	5 - 100	5.32	45	No Relax
18.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05-10	0.45	1	1.5
19.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.28	0.3	No Relax
20.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	0.05	1.5
21.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1-5	<0.1	0.1	0.3
22.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.18	5	15
23.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-2	<0.005	0.01	No Relax
24.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-50	<0.01	0.05	No Relax
25.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.001- 10	<0.001	0.001	0.005
26.	Free Residual Chlorine as FRC	mg/l	APHA, 24th Ed. : 2023, 4500-Cl B	0.05 -10	<0.05	0.2	1
27.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	0.5	1.0
28.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	0.2	1.0
29.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.001-2	<0.001	0.001	No Relax
30.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.001-5	<0.001	0.003	No Relax
31.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.005-5	<0.005	0.01	No Relax
32.	Total coliform	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent
33.	E.coli	Per 100 ml	IS15185:2016;RA:2021	<1.0	Absent	Absent	Absent

Statement of Conformity: The above tested parameters confirm as per **IS 10500:2012(Reaff:2018)** limits for above tested parameters.

Note-

- Test results relate to the items sampled & tested.
- Test report shall not be reproduced except in full without approval of the laboratory.
- The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

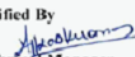
NAME & ADDRESS OF CUSTOMER:	M/s Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SW/0555/0623/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Surface Water		
Sample Registration No.	0555	Name of Location	Kao Nadi (SW-1)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0623/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	IS 2296 Class-C
1.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 -12	7.87	6.0-9.0
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5 -100	20	300
3.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	549.0	-
4.	Dissolved Oxygen as DO	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	1-15	4.2	4.0
5.	Biological Oxygen Demand as BOD (mg/l) 5 days at 20 °C	mg/l	APHA, 24th Ed. : 2023, 5210A+ B	1-1000	4.5	3.0
6.	Chemical Oxygen Demand as COD	mg/l	APHA, 24th Ed. : 2023, 5220,A+ C	1-1000	16.0	-
7.	Total Suspended Solids as TSS	mg/l	APHA, 24th Ed. : 2023, 2540-D	5-5000	13.2	-
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	357.0	1500
9.	Oil & Grease as O & G	mg/l	APHA, 24th Ed. : 2023, 5520 A+D	2.5-1000	<2.5	-
10.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5 -1500	140	-
11.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	152	-
12.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 - 1000	44.8	-
13.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 - 1000	9.72	-
14.	Sodium as Na,	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	10.3	-
15.	Potassium as K,	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.09	-
16.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 -1000	16	600
17.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO ₄ - E	1 – 250	9.87	400
18.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO ₃ - E	5 - 100	5.11	50
19.	Total Kjeldahl Nitrogen	mg/l	APHA, 24th Ed. : 2023, 4500 Norg A+C	0.5-100	<0.5	-
20.	Free Ammonia as NH ₃	mg/l	APHA, 24th Ed. : 2023, 4500 NH ₃ A+F	0.1-100	<0.1	-
21.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05 -10	0.37	1.5
22.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02 -50	0.11	0.50
23.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1 - 5	<0.1	-
24.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	1.5
25.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02 -50	0.04	15
26.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-2	<0.05	0.2
27.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-50	<0.05	-
28.	Phosphate as PO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-P,A+B+D	0.1 -50	<0.1	-
29.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.005 - 10	<0.005	0.005
30.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	1.0
31.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	-
32.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-5	<0.01	0.01
33.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.01-2	<0.01	-
34.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-5	<0.01	0.1
35.	Total coliform	MPN/10 0 ml	IS15185:2016;RA:2021	2.0	120	5000

Statement of Conformity: The above tested parameters confirm as per IS 2296 (CLASS-C) Limit.**Note-**

1. Test results relate to the items sampled & tested.
2. Test report shall not be reproduced except in full without approval of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

 Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

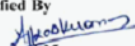
NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development, Authority Village: - Atimi, Anchal:-Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SW/0555/0624/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Surface Water		
Sample Registration No.	0555	Name of Location	Buxar Canal ,Near Tetrahar (SW-2)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0624/05/2024

Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	IS 2296 Class-C
1.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 -12	7.68	6.0-9.0
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5 -100	25.00	300
3.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	496.0	-
4.	Dissolved Oxygen as DO	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	1-15	4.4	4.0
5.	Biological Oxygen Demand as BOD (mg/l) 5 days at 20 °C	mg/l	APHA, 24th Ed. : 2023, 5210A+ B	1-1000	3.5	3.0
6.	Chemical Oxygen Demand as COD	mg/l	APHA, 24th Ed. : 2023, 5220,A+ C	1-1000	10.0	-
7.	Total Suspended Solids as TSS	mg/l	APHA, 24th Ed. : 2023, 2540-D	5-5000	15.30	-
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	322.0	1500
9.	Oil & Grease as O & G	mg/l	APHA, 24th Ed. : 2023, 5520 A+D	2.5-1000	<2.5	-
10.	Alkalinity as CaCO3	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5 -1500	112.00	-
11.	Total Hardness as CaCO3	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	132.00	-
12.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5 - 1000	38.40	-
13.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5 - 1000	8.75	-
14.	Sodium as Na,	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	12.20	-
15.	Potassium as K,	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.32	-
16.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5 -1000	22.00	600
17.	Sulphate as SO4	mg/l	APHA, 24th Ed. : 2023, 4500-SO42- E	1 – 250	12.30	400
18.	Nitrate Nitrogen as NO3	mg/l	APHA, 24th Ed. : 2023, 4500-NO32- E	5 - 100	5.60	50
19.	Total Kjeldahl Nitrogen	mg/l	APHA, 24th Ed. : 2023, 4500 Norg A+C	0.5-100	<0.5	-
20.	Free Ammonia as NH3	mg/l	APHA, 24th Ed. : 2023, 4500 NH3 A+F	0.1-100	<0.1	-
21.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05-10	0.34	1.5
22.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.14	0.50
23.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1 - 5	<0.1	-
24.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	1.5
25.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.07	15
26.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-2	<0.05	0.2
27.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-50	<0.05	-
28.	Phosphate as PO4	mg/l	APHA, 24th Ed. : 2023, 4500-P,A+B+D	0.1 -50	<0.1	-
29.	Phenolic Compound as C6H5OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.005 - 10	<0.005	0.005
30.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	1.0
31.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	-
32.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-5	<0.01	0.01
33.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.01-2	<0.01	-
34.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-5	<0.01	0.1
35.	Total coliform	MPN/10 0 ml	IS15185:2016;RA:2021	2.0	160.00	5000

Statement of Conformity: The above tested parameters confirm as per IS 2296 (CLASS-C) Limit.**Note-**

1. Test results relate to the items sampled & tested.
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3. The test samples will be disposed of after one Month from the date of issue of test report.

--- End of Report ---

Verified By

 Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/09

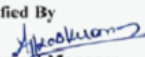
NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:-Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SW/0555/0625/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Surface Water		
Sample Registration No.	0555	Name of Location	Kesath Distributary Kesath village (SW-3)
Sampling Method	APHA	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0625/05/2024

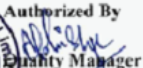
Sl. No.	TESTS	Unit	PROTOCOL	DETECTION RANGE	RESULT	IS 2296
						Class-C
1.	pH	-	APHA, 24th Ed. : 2023, 4500H+A+B	2 -12	7.29	6.0-9.0
2.	Colour	Hazen	APHA, 24th Ed. : 2023, 2120 B	5-100	25.00	300
3.	Electrical Conductivity	Us/cm	APHA, 24th Ed. : 2023, 2510-A + B	1-2000	613.0	-
4.	Dissolved Oxygen as DO	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	1-15	3.9	4.0
5.	Biological Oxygen Demand as BOD (mg/l) 5 days at 20 °C	mg/l	APHA, 24th Ed. : 2023, 5210A+ B	1-1000	8.5	3.0
6.	Chemical Oxygen Demand as COD	mg/l	APHA, 24th Ed. : 2023, 5220,A+ C	1-1000	22.0	-
7.	Total Suspended Solids as TSS	mg/l	APHA, 24th Ed. : 2023, 2540-D	5-5000	12.20	-
8.	Total Dissolved Solids as TDS	mg/l	APHA, 24th Ed. : 2023, 2540-C	5 - 5000	398.0	1500
9.	Oil & Grease as O & G	mg/l	APHA, 24th Ed. : 2023, 5520 A+D	2.5-1000	<2.5	-
10.	Alkalinity as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2320 A+ B	5-1500	148.00	-
11.	Total Hardness as CaCO ₃	mg/l	APHA, 24th Ed. : 2023, 2340 A+C	5 - 1500	164.00	-
12.	Calcium as Ca	mg/l	APHA, 24th Ed. : 2023, 3500 Ca A+B	5-1000	48.00	-
13.	Magnesium as Mg	mg/l	APHA, 24th Ed. : 2023, 3500 Mg A+B	5-1000	10.69	-
14.	Sodium as Na,	mg/l	APHA, 24th Ed. : 2023, 3500 Na A+B	1-100	14.20	-
15.	Potassium as K,	mg/l	APHA, 24th Ed. : 2023, 3500 K, A+B	1-100	1.32	-
16.	Chloride as Cl	mg/l	APHA, 24th Ed. : 2023, 4500 Cl A+B	5-1000	26.00	600
17.	Sulphate as SO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-SO42- E	1 – 250	9.54	400
18.	Nitrate Nitrogen as NO ₃	mg/l	APHA, 24th Ed. : 2023, 4500-NO32- E	5 - 100	5.60	50
19.	Total Kjeldahl Nitrogen	mg/l	APHA, 24th Ed. : 2023, 4500 Norg A+C	0.5-100	<0.5	-
20.	Free Ammonia as NH ₃	mg/l	APHA, 24th Ed. : 2023, 4500 NH ₃ A+F	0.1-100	<0.1	-
21.	Fluoride as F	mg/l	APHA, 24th Ed. : 2023, 4500-C	0.05 -10	0.16	1.5
22.	Iron as Fe	mg/l	APHA, 24th Ed. : 2023, 3500 Fe B	0.02-50	0.18	0.50
23.	Manganese as Mn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.1 - 5	<0.1	-
24.	Copper as Cu	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-5	<0.05	1.5
25.	Zinc as Zn	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.02-50	0.07	15
26.	Arsenic as As	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-2	<0.05	0.2
27.	Total Chromium as T. Cr.	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.05-50	<0.05	-
28.	Phosphate as PO ₄	mg/l	APHA, 24th Ed. : 2023, 4500-P,A+B+D	0.1-50	<0.1	-
29.	Phenolic Compound as C ₆ H ₅ OH	mg/l	APHA, 24th Ed. : 2023, 5530 A+C	0.005 - 10	<0.005	0.005
30.	Anionic Detergent as MBAS	mg/l	APHA, 24th Ed. : 2023, 5540 A+C	0.02-5	<0.02	1.0
31.	Boron as B	mg/l	APHA, 24th Ed. : 2023, 4500 A+C	0.5-10	<0.5	-
32.	Cadmium as Cd	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-5	<0.01	0.01
33.	Mercury as Hg	mg/l	APHA, 24th Ed. : 2023, 3112 A+B	0.01-2	<0.01	-
34.	Lead as Pb	mg/l	APHA, 24th Ed. : 2023, 3111 A+B	0.01-5	<0.01	0.1
35.	Total coliform	MPN/100 ml	IS15185:2016;RA:2021	2.0	130.00	5000

Statement of Conformity: The above tested parameters confirm as per IS 2296 (CLASS-C) Limit.**Note-**

1. Test results relate to the items sampled & tested.
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3. The test samples will be disposed of after one Month from the date of issue of test report.

--- End of Report ---

Verified By

 Technical Manager

Authorized By

 Quality Manager

(Circular Stamp: Ecomen Mining Private Limited, Gata No. 61, Mirzapur, Bakshi Ka Talab, Lucknow, U.P. 226021)

TEST REPORT

FORMAT NO. ECO/QS/FORMAT/08

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SS/0555/0634/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Soil sample		
Sample Registration No.	0555	Name of Location	Within Project Site (S-1)
Sampling Method	IS -2720	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0634/05/2024

Sl. No.	Parameters	Unit	Test Method	Results
1.	pH (Ratio 1:5)	-	IS 2720(Part-26) 1987 Reff-2021	7.78
2.	Electrical Conductivity (Ratio 1:5)	μ mhos/cm	IS:14767: 2000 Reff- 2021	289.0
3.	Moisture	%	IS 2720(Part-2):1973 Reff-2020	11.2
4.	Bulk Density	gm/cc	No:S-09 Issue No.2, Date 12.04.2021	1.38
5.	Calcium (Ca)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	48.0
6.	Magnesium (Mg)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	20.0
7.	Available Potassium (K ₂ O)	Kg/ha	IS 9497:1980 Reff-2020	67.6
8.	Available Phosphorous (P ₂ O ₅)	Kg/ha	SOP No:S-07 Issue No.2, Date 12.04.2021	13.2
9.	Zinc (Zn)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	1.98
10.	Iron (Fe)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	3.33
11.	Sodium (Na)	mg/kg	IS 9497:1980 RA2020	46.4
12.	Total Porosity	%	No:S-06 Issue No.2, Date 12.04.2021	14.8
13.	Water Holding Capacity	%	No:S-06 Issue No.2, Date 12.04.2021	19.2
14.	Organic Carbon	%	IS 2720(Part-22)1972 Reff-2020	0.78
15.	Organic Matter	%	IS 2720(Part-22)1972 Reff-2020	1.09
16.	Available Nitrogen as N	Kg/ha	SOP No:S-14 Issue No.2, Date 12.04.2021	32.4
17.	Sodium Absorption ratio (SAR)	%	-	1.41
18.	Cation Exchange capacity (CEC)	meq./100gm	SOP No:S-05 Issue No.2, Date 12.04.2021	32.15
19.	Grain Size Distribution			
a)	Textural Class	-	SOP No:S-03 Issue No.2, Date 12.04.2021	Clay
b)	Sand	%	SOP No:S-03 Issue No.2, Date 12.04.2021	28.00
c)	Silt	%	SOP No:S-03 Issue No.2, Date 12.04.2021	30.00
d)	Clay	%	SOP No:S-03 Issue No.2, Date 12.04.2021	42.00

Note :

1. Test result applied to the sample as received.
2. Test report will not be generated again without prior written permission of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/08

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SS/0555/0635/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Soil sample		
Sample Registration No.	0555	Name of Location	Atimi Village (S-2)
Sampling Method	IS -2720	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0635/05/2024

Sl. No.	Parameters	Unit	Test Method	Results
1.	pH (Ratio 1:5)	-	IS 2720(Part-26) 1987 Reff-2021	7.65
2.	Electrical Conductivity (Ratio 1:5)	μ mhos/cm	IS:14767: 2000 Reff- 2021	312.0
3.	Moisture	%	IS 2720(Part-2):1973 Reff-2020	8.78
4.	Bulk Density	gm/cc	No:S-09 Issue No.2, Date 12.04.2021	1.31
5.	Calcium (Ca)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	68.0
6.	Magnesium (Mg)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	24.0
7.	Available Potassium (K ₂ O)	Kg/ha	IS 9497:1980 Reff-2020	76.5
8.	Available Phosphorous (P ₂ O ₅)	Kg/ha	SOP No:S-07 Issue No.2, Date 12.04.2021	16.7
9.	Zinc (Zn)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	2.21
10.	Iron (Fe)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	4.21
11.	Sodium (Na)	mg/kg	IS 9497:1980 RA2020	39.7
12.	Total Porosity	%	No:S-06 Issue No.2, Date 12.04.2021	17.1
13.	Water Holding Capacity	%	No:S-06 Issue No.2, Date 12.04.2021	22.4
14.	Organic Carbon	%	IS 2720(Part-22)1972 Reff-2020	0.81
15.	Organic Matter	%	IS 2720(Part-22)1972 Reff-2020	1.12
16.	Available Nitrogen as N	Kg/ha	SOP No:S-14 Issue No.2, Date 12.04.2021	48.8
17.	Sodium Absorption ratio (SAR)	%	-	1.05
18.	Cation Exchange capacity (CEC)	meq./100gm	SOP No:S-05 Issue No.2, Date 12.04.2021	35.02
19.	Grain Size Distribution			
a)	Textural Class	-	SOP No:S-03 Issue No.2, Date 12.04.2021	Clay
b)	Sand	%	SOP No:S-03 Issue No.2, Date 12.04.2021	33.00
c)	Silt	%	SOP No:S-03 Issue No.2, Date 12.04.2021	21.00
d)	Clay	%	SOP No:S-03 Issue No.2, Date 12.04.2021	46.00

Note :

1. Test result applied to the sample as received.
2. Test report will not be generated again without prior written permission of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/08

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SS/0555/0636/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Soil sample		
Sample Registration No.	0555	Name of Location	Kukurbhuka Village (S-3)
Sampling Method	IS -2720	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0636/05/2024

Sl. No.	Parameters	Unit	Test Method	Results
1.	pH (Ratio 1:5)	-	IS 2720(Part-26) 1987 Reff-2021	7.43
2.	Electrical Conductivity (Ratio 1:5)	μ mhos/cm	IS:14767: 2000 Reff- 2021	288.0
3.	Moisture	%	IS 2720(Part-2):1973 Reff-2020	8.24
4.	Bulk Density	gm/cc	No:S-09 Issue No.2, Date 12.04.2021	1.38
5.	Calcium (Ca)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	72.0
6.	Magnesium (Mg)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	32.0
7.	Available Potassium (K ₂ O)	Kg/ha	IS 9497:1980 Reff-2020	80.6
8.	Available Phosphorous (P ₂ O ₅)	Kg/ha	SOP No:S-07 Issue No.2, Date 12.04.2021	21.2
9.	Zinc (Zn)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	2.54
10.	Iron (Fe)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	5.04
11.	Sodium (Na)	mg/kg	IS 9497:1980 RA2020	42.4
12.	Total Porosity	%	No:S-06 Issue No.2, Date 12.04.2021	21.6
13.	Water Holding Capacity	%	No:S-06 Issue No.2, Date 12.04.2021	25.4
14.	Organic Carbon	%	IS 2720(Part-22)1972 Reff-2020	0.76
15.	Organic Matter	%	IS 2720(Part-22)1972 Reff-2020	1.05
16.	Available Nitrogen as N	Kg/ha	SOP No:S-14 Issue No.2, Date 12.04.2021	62.3
17.	Sodium Absorption ratio (SAR)	%	-	1.04
18.	Cation Exchange capacity (CEC)	meq./100gm	SOP No:S-05 Issue No.2, Date 12.04.2021	32.75
19.	Grain Size Distribution			
a)	Textural Class	-	SOP No:S-03 Issue No.2, Date 12.04.2021	Clay
b)	Sand	%	SOP No:S-03 Issue No.2, Date 12.04.2021	22.00
c)	Silt	%	SOP No:S-03 Issue No.2, Date 12.04.2021	35.00
d)	Clay	%	SOP No:S-03 Issue No.2, Date 12.04.2021	43.00

Note :

1. Test result applied to the sample as received.
2. Test report will not be generated again without prior written permission of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/08

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SS/0555/0637/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Soil sample		
Sample Registration No.	0555	Name of Location	Nawanagar (S-4)
Sampling Method	IS -2720	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0637/05/2024

Sl. No.	Parameters	Unit	Test Method	Results
1.	pH (Ratio 1:5)	-	IS 2720(Part-26) 1987 Reff-2021	7.66
2.	Electrical Conductivity (Ratio 1:5)	μ mhos/cm	IS:14767: 2000 Reff- 2021	267.0
3.	Moisture	%	IS 2720(Part-2):1973 Reff-2020	9.21
4.	Bulk Density	gm/cc	No:S-09 Issue No.2, Date 12.04.2021	1.34
5.	Calcium (Ca)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	52.0
6.	Magnesium (Mg)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	28.0
7.	Available Potassium (K ₂ O)	Kg/ha	IS 9497:1980 Reff-2020	89.8
8.	Available Phosphorous (P ₂ O ₅)	Kg/ha	SOP No:S-07 Issue No.2, Date 12.04.2021	19.2
9.	Zinc (Zn)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	2.76
10.	Iron (Fe)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	7.12
11.	Sodium (Na)	mg/kg	IS 9497:1980 RA2020	46.5
12.	Total Porosity	%	No:S-06 Issue No.2, Date 12.04.2021	17.8
13.	Water Holding Capacity	%	No:S-06 Issue No.2, Date 12.04.2021	22.2
14.	Organic Carbon	%	IS 2720(Part-22)1972 Reff-2020	0.84
15.	Organic Matter	%	IS 2720(Part-22)1972 Reff-2020	1.17
16.	Available Nitrogen as N	Kg/ha	SOP No:S-14 Issue No.2, Date 12.04.2021	52.2
17.	Sodium Absorption ratio (SAR)	%	-	1.29
18.	Cation Exchange capacity (CEC)	meq./100gm	SOP No:S-05 Issue No.2, Date 12.04.2021	36.55
19.	Grain Size Distribution			
a)	Textural Class	-	SOP No:S-03 Issue No.2, Date 12.04.2021	Clay
b)	Sand	%	SOP No:S-03 Issue No.2, Date 12.04.2021	32.00
c)	Silt	%	SOP No:S-03 Issue No.2, Date 12.04.2021	20.00
d)	Clay	%	SOP No:S-03 Issue No.2, Date 12.04.2021	48.00

Note :

1. Test result applied to the sample as received.
2. Test report will not be generated again without prior written permission of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By


Technical Manager


Authorized By


Quality Manager

TEST REPORT

FORMAT NO. ECO/QS/FORMAT/08

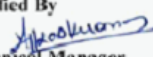
NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SS/0555/0638/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Soil sample		
Sample Registration No.	0555	Name of Location	Nokhpur Village (S-5)
Sampling Method	IS -2720	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0638/05/2024

Sl. No.	Parameters	Unit	Test Method	Results
1.	pH (Ratio 1:5)	-	IS 2720(Part-26) 1987 Reff-2021	7.44
2.	Electrical Conductivity (Ratio 1:5)	μ mhos/cm	IS:14767: 2000 Reff- 2021	312.0
3.	Moisture	%	IS 2720(Part-2):1973 Reff-2020	8.23
4.	Bulk Density	gm/cc	No:S-09 Issue No.2, Date 12.04.2021	1.32
5.	Calcium (Ca)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	60.00
6.	Magnesium (Mg)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	20.00
7.	Available Potassium (K ₂ O)	Kg/ha	IS 9497:1980 Reff-2020	92.4
8.	Available Phosphorous (P ₂ O ₅)	Kg/ha	SOP No:S-07 Issue No.2, Date 12.04.2021	34.20
9.	Zinc (Zn)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	2.44
10.	Iron (Fe)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	4.21
11.	Sodium (Na)	mg/kg	IS 9497:1980 RA2020	50.40
12.	Total Porosity	%	No:S-06 Issue No.2, Date 12.04.2021	16.5
13.	Water Holding Capacity	%	No:S-06 Issue No.2, Date 12.04.2021	21.5
14.	Organic Carbon	%	IS 2720(Part-22)1972 Reff-2020	0.87
15.	Organic Matter	%	IS 2720(Part-22)1972 Reff-2020	1.21
16.	Available Nitrogen as N	Kg/ha	SOP No:S-14 Issue No.2, Date 12.04.2021	46.40
17.	Sodium Absorption ratio (SAR)	%	-	1.43
18.	Cation Exchange capacity (CEC)	meq./100gm	SOP No:S-05 Issue No.2, Date 12.04.2021	25.45
19.	Grain Size Distribution			
a)	Textural Class	-	SOP No:S-03 Issue No.2, Date 12.04.2021	Sandy Clay Loam
b)	Sand	%	SOP No:S-03 Issue No.2, Date 12.04.2021	48.00
c)	Silt	%	SOP No:S-03 Issue No.2, Date 12.04.2021	20.00
d)	Clay	%	SOP No:S-03 Issue No.2, Date 12.04.2021	32.00

Note :

1. Test result applied to the sample as received.
2. Test report will not be generated again without prior written permission of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

----End of Report----

Verified By

Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/08

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SS/0555/0639/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Soil sample		
Sample Registration No.	0555	Name of Location	Tetrahra (S-6)
Sampling Method	IS -2720	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0639/05/2024

Sl. No.	Parameters	Unit	Test Method	Results
1.	pH (Ratio 1:5)	-	IS 2720(Part-26) 1987 Ref-2021	7.61
2.	Electrical Conductivity (Ratio 1:5)	μ mhos/cm	IS:14767: 2000 Ref- 2021	342
3.	Moisture	%	IS 2720(Part-2):1973 Ref-2020	9.12
4.	Bulk Density	gm/cc	No:S-09 Issue No.2, Date 12.04.2021	1.39
5.	Calcium (Ca)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	76
6.	Magnesium (Mg)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	40
7.	Available Potassium (K ₂ O)	Kg/ha	IS 9497:1980 Ref-2020	65.8
8.	Available Phosphorous (P ₂ O ₅)	Kg/ha	SOP No:S-07 Issue No.2, Date 12.04.2021	44.3
9.	Zinc (Zn)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	3.08
10.	Iron (Fe)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	3.42
11.	Sodium (Na)	mg/kg	IS 9497:1980 RA2020	49.8
12.	Total Porosity	%	No:S-06 Issue No.2, Date 12.04.2021	13.66
13.	Water Holding Capacity	%	No:S-06 Issue No.2, Date 12.04.2021	18.50
14.	Organic Carbon	%	IS 2720(Part-22)1972 Ref-2020	0.78
15.	Organic Matter	%	IS 2720(Part-22)1972 Ref-2020	1.08
16.	Available Nitrogen as N	Kg/ha	SOP No:S-14 Issue No.2, Date 12.04.2021	44.20
17.	Sodium Absorption ratio (SAR)	%	-	1.15
18.	Cation Exchange capacity (CEC)	meq./100gm	SOP No:S-05 Issue No.2, Date 12.04.2021	22.32
19.	Grain Size Distribution			
a)	Textural Class	-	SOP No:S-03 Issue No.2, Date 12.04.2021	Clay Loam
b)	Sand	%	SOP No:S-03 Issue No.2, Date 12.04.2021	32
c)	Silt	%	SOP No:S-03 Issue No.2, Date 12.04.2021	40
d)	Clay	%	SOP No:S-03 Issue No.2, Date 12.04.2021	28

Note :

1. Test result applied to the sample as received.
2. Test report will not be generated again without prior written permission of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By
[Signature]
Technical Manager



TEST REPORT

FORMAT NO. ECO/QS/FORMAT/08

NAME & ADDRESS OF CUSTOMER:	M/S Bihar Industrial Area Development Authority Village: - Atimi, Anchal:- Nawanagar, District: -Buxar Bihar	Test Report No.	ECO/LAB/SS/0555/0640/05/2024
		Issue Date of Test Report	24.05.2024
Type of Sample	Soil sample		
Sample Registration No.	0555	Name of Location	Mahadeoganj (S-7)
Sampling Method	IS -2720	Sample Collected By	EMPL Representative
Date of Sample Collection	12.05.2024	Time of Sample Collection	-
Date of Sample Received	14.05.2024	Time of Sample Received	11.30 AM
Start Date of Analysis	14.05.2024	End Date of Analysis	24.05.2024
Laboratory Environmental Condition	Temperature: 27 ± 2°C	Sample Quantity	As per Requirement
	Humidity: 52 %	Sample ID Code	ECO/LAB/0640/05/2024

Sl. No.	Parameters	Unit	Test Method	Results
1.	pH (Ratio 1:5)	-	IS 2720(Part-26) 1987 Reff-2021	7.29
2.	Electrical Conductivity (Ratio 1:5)	μ mhos/cm	IS:14767: 2000 Reff- 2021	303
3.	Moisture	%	IS 2720(Part-2):1973 Reff-2020	9.09
4.	Bulk Density	gm/cc	No:S-09 Issue No.2, Date 12.04.2021	1.35
5.	Calcium (Ca)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	64
6.	Magnesium (Mg)	mg/kg	SOP No:S-30 Issue No.2, Date 12.04.2021	32
7.	Available Potassium (K ₂ O)	Kg/ha	IS 9497:1980 Reff-2020	76.8
8.	Available Phosphorous (P ₂ O ₅)	Kg/ha	SOP No:S-07 Issue No.2, Date 12.04.2021	29.4
9.	Zinc (Zn)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	2.14
10.	Iron (Fe)	mg/kg	SOP No:S-28 Issue No.2, Date 12.04.2021	3.18
11.	Sodium (Na)	mg/kg	IS 9497:1980 RA2020	42.4
12.	Total Porosity	%	No:S-06 Issue No.2, Date 12.04.2021	18.67
13.	Water Holding Capacity	%	No:S-06 Issue No.2, Date 12.04.2021	24.40
14.	Organic Carbon	%	IS 2720(Part-22)1972 Reff-2020	0.87
15.	Organic Matter	%	IS 2720(Part-22)1972 Reff-2020	1.21
16.	Available Nitrogen as N	Kg/ha	SOP No:S-14 Issue No.2, Date 12.04.2021	41.80
17.	Sodium Absorption ratio (SAR)	%	-	1.08
18.	Cation Exchange capacity (CEC)	meq./100gm	SOP No:S-05 Issue No.2, Date 12.04.2021	22.65
19.	Grain Size Distribution			
a)	Textural Class	-	SOP No:S-03 Issue No.2, Date 12.04.2021	Clay Loam
b)	Sand	%	SOP No:S-03 Issue No.2, Date 12.04.2021	34
c)	Silt	%	SOP No:S-03 Issue No.2, Date 12.04.2021	38
d)	Clay	%	SOP No:S-03 Issue No.2, Date 12.04.2021	28

Note :

1. Test result applied to the sample as received.
2. Test report will not be generated again without prior written permission of the laboratory.
3. The test samples will be disposed of after one Month from the date of issue of test report.

---End of Report---

Verified By

Technical Manager

