



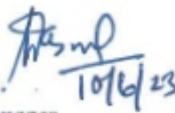
SHIVA TEST HOUSE

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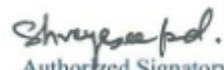
TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A1		Dt: 10.06.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Project Site (S1) [Lat. 25° 0'26.41"N; Long.85°38'33.82"E]			
e) Analysis Start Date		04.03.2023			
f) Analysis Completion Date		01.06.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
02.03.23	44.4	26.6	8.7	15.4	0.15
05.03.23	48.5	29.1	13.3	23.7	0.21
09.03.23	43.1	25.9	9.5	17.0	0.11
14.03.23	38.6	24.4	11.0	19.6	0.10
18.03.23	47.8	28.2	8.8	15.7	0.18
21.03.23	46.2	27.1	10.7	19.0	0.14
24.03.23	34.4	21.3	13.9	24.7	0.13
28.03.23	43.1	30.2	12.3	21.8	0.10
01.04.23	49.5	35.5	6.2	11.1	0.18
04.04.23	50.3	30.0	9.4	16.8	0.15
08.04.23	42.6	25.8	8.0	14.2	0.17
13.04.23	45.6	29.6	8.0	14.3	0.26
19.04.23	51.3	32.6	10.7	19.1	0.23
22.04.23	51.6	30.5	6.9	12.3	0.21
25.04.23	54.4	32.2	7.1	12.7	0.17
29.04.23	44.8	28.5	7.1	12.7	0.18
03.05.23	45.4	27.6	7.9	14.1	0.14
06.05.23	51.9	34.6	10.2	18.2	0.11
10.05.23	53.6	32.2	6.2	11.0	0.16
14.05.23	50.6	30.9	6.5	11.5	0.15
19.05.23	40.6	26.1	8.8	15.6	0.19
23.05.23	52.5	31.3	6.0	10.7	0.23
26.05.23	49.1	29.4	7.6	13.5	0.21
29.05.23	45.5	25.2	10.1	18.0	0.27
Min ^m . Value	34.4	21.3	6.0	10.7	0.10
Max ^m . Value	54.4	35.5	13.9	24.7	0.27
Average Value	46.9	28.9	9.0	15.9	0.17
98 th %ile	54.0	35.1	13.6	24.2	0.27
NAAQS 2009	100	60	80	80	4

Verified By : 
Technical Manager



– END OF TEST REPORT –


Authorized Signatory
Quality Manager

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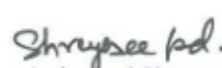
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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A2			Dt: 10.06.2023		
a) Name and address of the Customer			BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample			Monitoring of Ambient Air Quality		
c) Sample Collected by			Lab Representative of Shiva Test House, Patna		
d) Sampling Location			Bazidpur (S2) [Lat. 24°59'49.43"N; Long85°41'55.38"E]		
e) Analysis Start Date			04.03.2023		
f) Analysis Completion Date			01.06.2023		
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
02.03.23	53.5	32.1	9.3	14.1	0.14
05.03.23	43.5	27.8	9.8	14.9	0.11
09.03.23	54.3	32.9	8.8	13.4	0.16
14.03.23	57.5	34.5	7.2	16.8	0.11
18.03.23	53.5	32.3	8.4	22.1	0.12
21.03.23	55.0	32.9	7.1	15.9	0.15
24.03.23	59.0	35.8	8.4	12.7	0.28
28.03.23	56.2	34.0	6.6	15.2	0.34
01.04.23	44.8	28.0	9.2	14.0	0.15
04.04.23	50.3	30.2	6.6	16.1	0.21
08.04.23	55.9	35.5	7.4	22.1	0.44
13.04.23	51.7	32.1	8.8	25.1	0.26
19.04.23	57.5	32.4	7.6	26.6	0.22
22.04.23	54.6	31.0	8.6	18.5	0.18
25.04.23	53.5	32.2	7.1	31.1	0.28
29.04.23	54.5	33.0	8.8	25.9	0.26
03.05.23	48.9	31.1	6.4	28.3	0.32
06.05.23	57.5	36.1	6.8	30.3	0.28
10.05.23	44.6	28.8	8.8	26.8	0.25
14.05.23	47.7	33.3	6.6	29.0	0.30
19.05.23	48.6	34.5	10.2	29.8	0.36
23.05.23	49.4	33.2	7.4	25.1	0.34
26.05.23	55.1	36.5	8.8	28.2	0.42
29.05.23	56.8	35.3	9.2	26.4	0.37
Min ^m Value	43.5	27.8	6.4	12.7	0.11
Max ^m Value	59.0	36.5	10.2	31.1	0.44
Average Value	52.7	32.7	8.1	22.0	0.25
98 th %ile	58.3	36.3	10.0	30.7	0.43
NAAQS 2009	100	60	80	80	4

Verified By : 
Technical Manager

— END OF TEST REPORT —


Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A3		Dt: 10.06.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Bojhwan (S3) [Lat25° 3'21.56"N; Long85°41'27.61"E]			
e) Analysis Start Date		04.03.2023			
f) Analysis Completion Date		01.06.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
02.03.23	47.9	28.3	6.4	12.5	0.11
05.03.23	44.6	27.0	5.8	11.4	0.06
09.03.23	39.5	23.7	9.3	18.2	0.08
14.03.23	49.9	29.2	5.2	23.6	0.23
18.03.23	45.3	27.2	8.2	16.1	0.05
21.03.23	53.7	31.8	9.0	17.6	0.15
24.03.23	41.7	25.1	6.4	25.2	0.16
28.03.23	40.9	24.4	7.2	22.1	0.13
01.04.23	51.3	30.6	8.2	20.0	0.18
04.04.23	52.1	31.1	5.2	27.1	0.16
08.04.23	43.8	26.1	5.2	16.3	0.10
13.04.23	50.5	30.1	9.1	17.7	0.16
19.04.23	49.2	29.4	7.4	19.7	0.12
22.04.23	45.5	27.2	8.0	22.8	0.18
25.04.23	43.5	25.9	7.8	15.3	0.08
29.04.23	47.2	28.2	5.2	25.2	0.19
03.05.23	46.1	27.5	5.6	26.1	0.15
06.05.23	44.2	26.4	6.4	23.7	0.11
10.05.23	47.2	28.2	8.4	22.6	0.06
14.05.23	44.0	25.5	9.5	18.6	0.12
19.05.23	52.3	31.0	9.0	17.6	0.10
23.05.23	48.2	28.3	5.8	28.9	0.16
26.05.23	41.6	24.3	6.4	21.7	0.10
29.05.23	49.5	29.3	7.8	15.3	0.20
Min ^m Value	39.5	23.7	5.2	11.4	0.05
Max ^m Value	53.7	31.8	9.5	28.9	0.23
Average Value	46.6	27.7	7.2	20.2	0.13
98 th %ile	53.0	31.5	9.4	28.1	0.22
NAAQS 2009	100	60	80	80	4

Verified By : *[Signature]*
Technical Manager

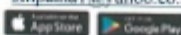


– END OF TEST REPORT –

[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A4		Dt: 10.06.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Katrisarai (S4) [Lat. 25° 4'54.25"N; Long 85°38'6.67"E]			
e) Analysis Start Date		04.03.2023			
f) Analysis Completion Date		01.06.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
02.03.23	44.1	25.5	9.3	17.9	0.18
05.03.23	48.3	29.3	8.4	15.7	0.25
09.03.23	52.1	30.7	10.3	19.8	0.11
14.03.23	54.3	32.5	12.1	22.3	0.24
18.03.23	56.9	34.9	13.1	24.0	0.12
21.03.23	56.7	33.5	11.2	20.4	0.27
24.03.23	46.4	27.3	13.5	24.8	0.11
28.03.23	44.9	26.4	11.7	21.5	0.16
01.04.23	58.2	34.8	9.8	18.2	0.30
04.04.23	43.2	26.0	8.5	15.8	0.26
08.04.23	48.8	29.3	12.6	23.1	0.08
13.04.23	45.9	27.1	10.7	19.8	0.12
19.04.23	50.1	30.0	8.9	16.5	0.14
22.04.23	49.3	29.6	14.0	25.6	0.11
25.04.23	47.9	28.6	8.9	16.5	0.34
29.04.23	51.8	31.0	10.7	19.8	0.31
03.05.23	57.1	34.3	10.3	19.0	0.12
06.05.23	43.9	26.0	8.4	14.5	0.34
10.05.23	42.4	25.1	12.1	22.3	0.18
14.05.23	56.2	33.6	8.5	15.6	0.33
19.05.23	45.5	27.2	13.1	24.0	0.36
23.05.23	43.4	25.5	11.4	20.7	0.16
26.05.23	48.1	28.6	9.3	17.3	0.17
29.05.23	49.1	28.9	12.0	22.2	0.34
Min ^m Value	42.4	25.1	8.4	14.5	0.08
Max ^m Value	58.2	34.9	14.0	25.6	0.36
Average Value	49.4	29.4	10.8	19.9	0.21
98 th %ile	57.7	34.9	13.8	25.2	0.35
NAAQS 2009	100	60	80	80	4

Verified By : *Asim*
Technical Manager



Shreyasee pd.
Authorized Signatory
Quality Manager

-- END OF TEST REPORT --

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A5		Dt: 10.06.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Katauna(S5) [Lat. 25° 2'47.35"N; Long. 85°35'27.31"E]			
e) Analysis Start Date		03.03.2023			
f) Analysis Completion Date		29.05.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
01.03.23	44.3	26.9	11.1	15.9	<0.05
04.03.23	46.6	28.1	15.3	21.6	0.11
08.03.23	50.5	29.9	9.5	13.8	0.14
13.03.23	49.0	29.1	9.0	13.1	0.17
17.03.23	41.9	24.9	11.6	16.6	0.14
20.03.23	44.3	26.2	14.8	20.9	0.12
23.03.23	50.3	28.9	6.9	14.8	0.08
27.03.23	49.7	29.5	8.7	13.1	0.13
02.04.23	47.4	28.5	16.9	23.7	0.08
05.04.23	45.0	27.0	13.2	18.7	0.19
09.04.23	59.7	34.9	13.7	19.4	0.06
14.04.23	48.2	28.9	16.3	23.0	0.12
18.04.23	43.5	26.0	12.1	17.3	0.10
21.04.23	55.9	30.2	7.9	12.8	<0.05
24.04.23	54.2	32.8	12.7	18.0	0.14
28.04.23	42.7	26.0	15.8	22.3	0.12
02.05.23	48.2	28.8	8.4	12.4	0.18
05.05.23	45.0	27.1	14.2	20.1	0.15
09.05.23	43.5	25.4	10.0	14.5	<0.05
13.05.23	51.3	31.2	15.8	22.3	0.10
18.05.23	53.4	34.1	9.0	13.5	0.13
21.05.23	50.5	30.3	13.7	18.8	0.10
24.05.23	46.6	28.1	15.3	20.4	<0.05
27.05.23	45.8	27.6	16.9	22.6	0.17
Min ^m Value	41.9	24.9	6.9	12.4	0.06
Max ^m Value	59.7	34.9	16.9	23.7	0.19
Average Value	48.2	28.8	12.4	17.9	0.13
98 th %ile	58.0	34.5	16.9	23.4	0.18
NAAQS 2009	100	60	80	80	4

Verified By
Technical Manager

10/6/23



— END OF TEST REPORT —

Shreyasee Pal.
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A6		Dt: 10.06.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Saur (S6) [Lat24°59'54.90"N; Long. 85°35'1.78"E]			
e) Analysis Start Date		05.03.2023			
f) Analysis Completion Date		01.06.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
03.03.23	44.4	26.2	7.2	15.1	0.11
06.03.23	38.8	21.0	9.7	20.3	0.15
10.03.23	45.0	26.8	8.4	17.7	0.28
15.03.23	38.5	23.1	6.2	22.2	0.10
19.03.23	50.0	30.0	7.2	18.4	0.26
22.03.23	36.5	21.1	7.9	24.4	0.24
25.03.23	52.2	30.5	6.6	13.9	0.07
29.03.23	39.8	23.1	9.5	20.0	0.22
03.04.23	44.3	26.2	6.4	13.4	0.11
06.04.23	54.8	22.6	7.5	15.7	0.26
10.04.23	43.7	26.0	9.5	20.0	0.35
15.04.23	41.7	24.9	8.7	18.2	0.35
20.04.23	37.4	21.2	6.8	14.2	0.31
23.04.23	46.6	27.2	8.1	17.1	0.18
26.04.23	49.0	29.1	10.9	32.2	0.12
30.04.23	43.0	25.9	6.0	14.2	0.27
04.05.23	51.1	30.4	6.9	14.4	0.32
07.05.23	58.8	26.8	8.4	30.4	0.11
11.05.23	56.1	32.3	6.5	20.2	0.16
15.05.23	60.2	35.4	9.1	19.2	0.08
20.05.23	54.3	30.2	7.2	15.1	0.17
24.05.23	59.8	28.4	10.2	18.2	0.10
27.05.23	65.5	25.2	7.5	15.7	0.26
30.05.23	56.7	31.8	7.0	14.6	0.22
Min ^m . Value	36.5	21.0	6.0	13.4	0.07
Max ^m . Value	65.5	35.4	10.9	32.2	0.35
Average Value	48.7	26.9	7.9	18.5	0.20
98 th %ile	63.1	34.0	10.6	31.4	0.35
NAAQS 2009	100	60	80	80	4

Verified By :

Technical Manager

Signature
10/6/23



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Signature

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A7		Dt: 10.06.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Sikandra (S7) [Lat. 24°58'2.90"N; Long. 85°35'24.57"E]			
e) Analysis Start Date		05.03.2023			
f) Analysis Completion Date		01.06.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
03.03.23	45.0	26.6	8.9	13.7	0.17
06.03.23	41.9	25.3	7.4	12.6	0.46
10.03.23	37.1	22.3	9.5	18.2	0.22
15.03.23	46.9	27.4	11.3	17.5	0.34
19.03.23	42.6	25.5	9.7	15.1	0.37
22.03.23	49.9	29.9	8.4	13.1	0.22
25.03.23	39.2	23.6	12.1	18.7	0.23
29.03.23	38.4	22.9	10.6	16.5	0.33
03.04.23	58.8	32.6	9.6	14.9	0.38
06.04.23	49.0	29.2	13.0	20.1	0.23
10.04.23	41.1	24.5	7.8	12.1	0.29
15.04.23	56.6	31.8	8.5	13.2	0.08
20.04.23	46.2	27.6	9.4	14.6	0.13
23.04.23	42.7	25.5	10.9	16.9	0.26
26.04.23	40.8	24.4	7.4	30.4	0.41
30.04.23	44.4	26.5	12.1	18.7	0.29
04.05.23	43.3	25.9	10.2	19.4	0.22
07.05.23	61.2	35.8	11.4	17.6	0.17
11.05.23	48.9	30.2	10.9	16.8	0.15
15.05.23	41.3	23.9	8.9	13.8	0.35
20.05.23	49.1	29.1	8.4	29.2	0.11
24.05.23	45.3	26.6	6.6	21.4	0.24
27.05.23	39.1	22.9	10.4	16.1	0.23
30.05.23	46.5	27.5	5.6	11.3	0.30
Min ^m . Value	37.1	22.3	5.6	11.3	0.08
Max ^m . Value	61.2	35.8	13.0	30.4	0.46
Average Value	45.6	27.0	9.5	17.2	0.26
98 th %ile	60.1	34.3	12.6	29.8	0.44
NAAQS 2009	100	60	80	80	4

Verified By :
Technical Manager

Handwritten signature
10/6/23



— END OF TEST REPORT —

Handwritten signature
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-A8		Dt: 10.06.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Dosut(S8) [Lat. 24°56'36.22"N; Long. 85°39'46.22"E]			
e) Analysis Start Date		03.03.2023			
f) Analysis Completion Date		29.05.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
01.03.23	48.5	28.9	10.0	20.9	0.21
04.03.23	44.8	26.8	7.7	12.6	0.35
08.03.23	47.5	28.5	8.0	14.8	0.20
13.03.23	49.4	29.5	9.5	20.1	0.29
17.03.23	46.6	28.8	10.8	22.4	0.40
20.03.23	54.7	32.6	7.5	13.9	0.18
23.03.23	52.4	31.3	9.7	18.5	0.12
27.03.23	50.3	30.2	8.7	18.5	0.16
02.04.23	53.8	32.3	6.1	13.0	0.22
05.04.23	51.8	31.1	11.3	20.3	0.14
09.04.23	50.5	33.8	8.4	14.3	0.10
14.04.23	48.9	29.4	12.1	24.8	0.39
18.04.23	43.0	25.8	7.2	14.4	0.28
21.04.23	51.2	30.7	10.0	20.9	0.32
24.04.23	45.9	27.5	12.1	24.8	0.12
28.04.23	46.4	30.1	7.4	15.4	0.36
02.05.23	50.0	30.0	10.4	21.7	0.08
05.05.23	46.9	34.2	8.3	14.6	0.20
09.05.23	51.7	31.1	11.7	24.0	0.33
13.05.23	44.5	35.4	9.1	19.3	0.27
18.05.23	54.1	32.4	8.2	17.7	0.17
21.05.23	50.2	33.6	7.4	16.2	0.29
24.05.23	49.5	29.7	13.0	28.0	0.16
27.05.23	53.5	32.1	14.9	24.4	0.12
Min ^m Value	43.0	25.8	6.1	12.6	0.08
Max ^m Value	54.7	35.4	14.9	28.0	0.40
Average Value	49.4	30.7	9.6	19.0	0.23
98 th %ile	54.4	34.8	14.0	26.5	0.40
NAAQS 2009	100	60	80	80	4

Verified By :

Technical Manager



-- END OF TEST REPORT --

Shruti K. S.

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW1		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Project Site (W1) [Lat. 25° 0'26.41"N ; Long. 85°38'33.82"E]		
e) Sampling Date		10.04.2023		
f) Analysis Start Date		11.04.2023		
g) Analysis Completion Date		18.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	<1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.96
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	295.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	170.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	30.4
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	22.4
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	218.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	20.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	6.4
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.16
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	5.2
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.38
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.40
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :

Technical Manager

[Signature]
10/06/23



— END OF TEST REPORT —

[Signature]
Authorized Signatory
Quality Manager

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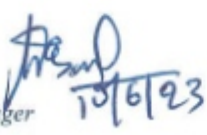
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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By : 
Technical Manager



Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW2		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Bazidpur (W2) [Lat. 24°59'49.43"N; Long. 85°41'55.38"E]		
e) Sampling Date		10.04.2023		
f) Analysis Start Date		11.04.2023		
g) Analysis Completion Date		18.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.12
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.54
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	344.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	196.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	33.6
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	27.2
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	224.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	22.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	8.8
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.24
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	6.4
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.44
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.44
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :

Technical Manager



– END OF TEST REPORT –

Shreyasee Paul

Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :
Technical Manager

[Signature]
10/6/23

[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW3		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Bojhwan (W3) [Lat. 25° 3'21.56"N; Long. 85°41'27.61"E]		
e) Sampling Date		10.04.2023		
f) Analysis Start Date		11.04.2023		
g) Analysis Completion Date		18.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	< 1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.87
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	383.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	208.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	41.6
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	25.3
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	244.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	18.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	10.2
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.18
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	8.0
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.52
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.42
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

Handwritten signature
10/6/23



– END OF TEST REPORT –

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Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :
Technical Manager

[Signature]
10/6/23

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Authorized Signatory
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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW4		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Katarisarai (W4) [Lat. 25° 4'54.25"N; Long. 85°38'6.67"E]		
e) Sampling Date		10.04.2023		
f) Analysis Start Date		11.04.2023		
g) Analysis Completion Date		18.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.18
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.43
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	254.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	180.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	35.2
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	22.4
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	212.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	24.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	11.8
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.12
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	10.4
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.82
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.46
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By : 
Technical Manager



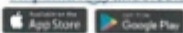

Authorized Signatory
Quality Manager

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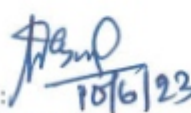
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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By : 
Technical Manager


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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW5		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Katauna (W5) [Lat. 25° 2'47.35"N; Long. 85°35'27.31"E]		
e) Sampling Date		11.04.2023		
f) Analysis Start Date		12.04.2023		
g) Analysis Completion Date		19.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	<1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.67
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	246.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	156.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	34.4
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	17.0
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	184.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	20.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	7.8
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.11
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	6.4
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.56
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.43
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

Handwritten signature
10/06/23



-- END OF TEST REPORT --

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Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :
Technical Manager

[Signature]
10/06/23

— END OF TEST REPORT —

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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW6		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Saur (W6) [Lat. 24°59'54.90"N; Long. 85°35'1.78"E]		
e) Sampling Date		11.04.2023		
f) Analysis Start Date		12.04.2023		
g) Analysis Completion Date		19.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	<1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.26
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	264.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	176.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	32.0
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	23.3
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	220.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	24.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	12.2
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.08
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	10.4
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.48
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.38
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

[Signature]
10/6/23

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[Signature]
Authorized Signatory
Quality Manager

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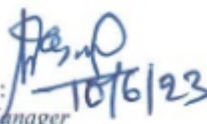
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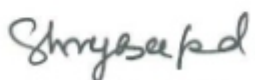
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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By : 
Technical Manager

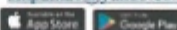

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW7		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Sikandra(W7) [Lat. 24°58'2.90"N; Long. 85°35'24.57"E]		
e) Sampling Date		11.04.2023		
f) Analysis Start Date		12.04.2023		
g) Analysis Completion Date		19.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.34
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.84
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	288.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	192.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	28.8
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	29.2
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	226.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	28.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	10.4
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.28
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	6.2
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.74
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.41
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

[Signature]
10/06/23



-- END OF TEST REPORT --

[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By
Technical Manager

[Signature]
10/06/23

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-GW8		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Dosut(W8) [Lat. 24°56'36.22"N; Long. 85°39'46.22"E]		
e) Sampling Date		11.04.2023		
f) Analysis Start Date		12.04.2023		
g) Analysis Completion Date		19.04.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.92
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	304.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	176.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	27.2
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	26.2
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	196.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	22.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	8.8
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.20
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	5.8
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.64
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.44
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :

Technical Manager



-- END OF TEST REPORT --

Shreyasee Sol.

Authorized Signatory
Quality Manager

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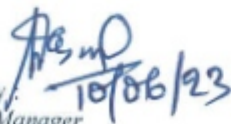
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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By: 
Technical Manager


Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N1		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Project Site (N1) [Lat. 25° 0'25.49"N ; Long. 85°38'40.88"E]		
e) Sampling Date		18/19.03.23		
f) Analysis Start Date		20.03.2023		
g) Analysis Completion Date		21.03.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Indl. Area)
Day Time Leq	dB(A)	IS 9989	45.8	75
Night Time Leq	dB(A)	IS 9989	35.0	70



Verified By :
Technical Manager

Signature
10/06/23

-- END OF TEST REPORT --

Signature
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N2		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Mosima (N2) [Lat. 24°59'50.02"N Long 85°38'40.35"E]		
e) Sampling Date		18/19.03.23		
f) Analysis Start Date		20.03.2023		
g) Analysis Completion Date		21.03.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Comm. Area)
Day Time Leq	dB(A)	IS 9989	57.7	65
Night Time Leq	dB(A)	IS 9989	44.4	55



Verified By :
Technical Manager

10/06/23

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Shreyasee K.
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N3		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Khanpur (N3) [Lat. 25° 0'27.18"N; Long. 85°39'12.24"E]		
e) Sampling Date		30/31.03.23		
f) Analysis Start Date		01.04.2023		
g) Analysis Completion Date		02.04.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	48.0	55
Night Time Leq	dB(A)	IS 9989	35.7	45



Verified By :
Technical Manager

[Signature]
10/06/23

[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N4		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Patel Nagar (N4) [Lat. 25° 0'49.72"N; Long. 85°38'44.29"E]		
e) Sampling Date		30/31.03.23		
f) Analysis Start Date		01.04.2023		
g) Analysis Completion Date		02.04.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	51.7	55
Night Time Leq	dB(A)	IS 9989	38.1	45



Verified By :
Technical Manager

[Signature]
10/06/23

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[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N5		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Krishnapur Road (N5) [Lat. 25° 0'47.77"N; Long. 85°38'16.67"E]		
e) Sampling Date		30/31.03.23		
f) Analysis Start Date		01.04.2023		
g) Analysis Completion Date		02.04.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	65.2	55
Night Time Leq	dB(A)	IS 9989	47.0	45



Verified By :
Technical Manager

Handwritten signature and date 10/06/23

Handwritten signature
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N6	Dt: 10.06.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Jawahar Park (N6) [Lat. 25° 0'36.52"N; Long. 85°38'7.29"E]			
e) Sampling Date	30/31.03.23			
f) Analysis Start Date	01.04.2023			
g) Analysis Completion Date	02.04.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Comm. Area)
Day Time Leq	dB(A)	IS 9989	50.7	65
Night Time Leq	dB(A)	IS 9989	36.9	55



Verified By :
Technical Manager

Handwritten signature
10/06/23

– END OF TEST REPORT –

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N7	Dt: 10.06.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Near Chandani Chowk (N7) [Lat. 25° 0'25.25"N; Long. 85°37'50.92"E]			
e) Sampling Date	15/16.04.23			
f) Analysis Start Date	17.04.2023			
g) Analysis Completion Date	18.04.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Comm. Area)
Day Time Leq	dB(A)	IS 9989	52.7	65
Night Time Leq	dB(A)	IS 9989	37.9	55



Verified By :
Technical Manager

Handwritten signature and date 10/06/23

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-N8		Dt: 10.06.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Near PWD Office ,Warsaliganj (N8) [Lat. 25° 0'1.88"N; Long. 85°38'6.15"E]		
e) Sampling Date		15/16.04.23		
f) Analysis Start Date		17.04.2023		
g) Analysis Completion Date		18.04.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	51.8	55
Night Time Leq	dB(A)	IS 9989	37.0	45



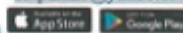
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Technical Manager 10/06/23


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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-S1		Dt: 10.06.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Project Site (S1) [Lat. 25° 0'20.02"N; Long.85°38'34.27"E]	
e) Sampling Date		15.03.2023	
f) Analysis Start Date		16.03.2023	
g) Analysis Completion Date		20.03.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.52
2. Conductivity		µmhos/cm.	260.0
3. Particle Size Distribution			
i. Gravel		%	0.48
ii. Sand		%	11.3
iii. Silt		%	18.0
iv. Clay		%	15.0
4. Water Holding Capacity		%	36.0
5. Porosity		%	8.0
6. Organic Carbon		%	0.24
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	5.2
8. Available Nitrogen as N		Kg/Hec.	186.0
9. Available Potassium as K ₂ O		Kg/Hec.	48.0



Verified By :
Technical Manager

[Signature]
10/6/23

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-S2		Dt: 10.06.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Bazidpur (S2) [Lat. 24°59'50.43"N; Long85°41'52.90"E]	
e) Sampling Date		10.04.2023	
f) Analysis Start Date		11.04.2023	
g) Analysis Completion Date		16.04.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.88
2. Conductivity		µmhos/cm.	264.0
3. Particle Size Distribution			
i. Gravel		%	0.52
ii. Sand		%	16.0
iii. Silt		%	15.0
iv. Clay		%	18.0
4. Water Holding Capacity		%	64.0
5. Porosity		%	14.0
6. Organic Carbon		%	0.36
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	7.4
8. Available Nitrogen as N		Kg/Hec.	212.0
9. Available Potassium as K ₂ O		Kg/Hec.	70.0



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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-S3		Dt: 10.06.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Katauna(S3) [Lat. 25° 2'51.87"N; Long. 85°35'51.20"E]	
e) Sampling Date		15.03.2023	
f) Analysis Start Date		16.03.2023	
g) Analysis Completion Date		20.03.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.46
2. Conductivity		µmhos/cm.	240.0
3. Particle Size Distribution			
i. Gravel		%	0.36
ii. Sand		%	10.0
iii. Silt		%	20.0
iv. Clay		%	12.0
4. Water Holding Capacity		%	58.0
5. Porosity		%	10.0
6. Organic Carbon		%	0.40
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	6.6
8. Available Nitrogen as N		Kg/Hec.	196.0
9. Available Potassium as K ₂ O		Kg/Hec.	52.0



Verified By :
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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-S4		Dt: 10.06.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Saur (S4) [Lat24°59'55.23"N; Long. 85°35'6.16"E]	
e) Sampling Date		20.04.2023	
f) Analysis Start Date		21.04.2023	
g) Analysis Completion Date		25.04.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.32
2. Conductivity		µmhos/cm.	248.0
3. Particle Size Distribution			
i. Gravel		%	0.42
ii. Sand		%	22.0
iii. Silt		%	10.0
iv. Clay		%	16.0
4. Water Holding Capacity		%	44.0
5. Porosity		%	8.0
6. Organic Carbon		%	0.28
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	10.2
8. Available Nitrogen as N		Kg/Hec.	210.0
9. Available Potassium as K ₂ O		Kg/Hec.	64.0



Verified By :
Technical Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-S5		Dt: 10.06.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Sikandra (S5) [Lat. 24°58'1.27"N; Long. 85°35'25.12"E]	
e) Sampling Date		10.05.2023	
f) Analysis Start Date		11.05.2023	
g) Analysis Completion Date		16.05.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.57
2. Conductivity		µmhos/cm.	256.0
3. Particle Size Distribution			
i. Gravel		%	0.55
ii. Sand		%	15.0
iii. Silt		%	22.0
iv. Clay		%	12.0
4. Water Holding Capacity		%	72.0
5. Porosity		%	18
6. Organic Carbon		%	0.32
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	8.0
8. Available Nitrogen as N		Kg/Hec.	230
9. Available Potassium as K ₂ O		Kg/Hec.	66.0



Verified By :
Technical Manager

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10/06/23

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-SW1		Dt: 10.06.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Surface Water Sample	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		River Sakri (Murgichak (SW1) [Lat. 25° 0'50.64"N; Long. 85°34'7.01"E]	
e) Sampling Date		20.03.2023	
f) Analysis Start Date		21.03.2023	
g) Analysis Completion Date		25.03.2023	
Parameter	Test Method	Unit	Results
1. pH	IS 3025 (Part-11)	---	7.12
2. Dissolved Oxygen	IS 3025 (Part-38)	mg/l.	5.8
3. BOD (3 days at 27°C)	IS 3025 (Part-44)	mg/l.	2.2
4. COD	IS 3025 (Part-58)	mg/l.	16
5. Total Suspended Solids	IS 3025 (Part-17)	mg/l.	25
6. Total Dissolved Solids	IS 3025 (Part-16)	mg/l.	192
7. Conductivity	IS 3025 (Part-14)	µmhos/cm.	360
8. Turbidity, NTU	IS 3025 (Part-10)	NTU	<5.0
9. Sulphate as SO ₄	IS 3025 (Part-24)	mg/l.	14.8
10. Dissolved Phosphate as P	APHA (4500-P-D)	mg/l.	0.32
11. Ammonical Nitrogen as N	IS 3025 (Part-34)	mg/l.	1.1
12. Total Alkalinity as CaCO ₃	IS 3025 (Part-23)	mg/l.	124
13. Total Hardness as CaCO ₃	IS 3025 (Part-21)	mg/l.	148
14. Calcium Hardness as CaCO ₃	IS 3025 (Part-40)	mg/l.	82.0
15. Magnesium Hardness asCaCO ₃	IS 3025 (Part-46)	mg/l.	66.0
16. Fluoride as F	APHA 4500 (F D)	mg/l.	0.38
17. Chloride as Cl	IS 3025 (Part-32)	mg/l.	18
18. Boron as B	APHA4500BB	mg/l.	0.1
19. Total Kjeldahl Nitrogen as N	APHA (4500 N org)	mg/l.	2.8
20. Total Coliform	IS 1622	MPN/100 ml.	1600

Verified By :

Technical Manager

[Signature]
10/06/23



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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 1926-SW2		Dt: 10.06.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Surface Water Sample	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		River Sakri (Sultanpur) (SW2) [Lat. 24°58'24.08"N; Long. 85°36'26.86"E]	
e) Sampling Date		20.03.2023	
f) Analysis Start Date		21.03.2023	
g) Analysis Completion Date		25.03.2023	
Parameter	Test Method	Unit	Results
1. pH	IS 3025 (Part-11)	---	7.04
2. Dissolved Oxygen	IS 3025 (Part-38)	mg/l.	5.2
3. BOD (3 days at 27°C)	IS 3025 (Part-44)	mg/l.	2.8
4. COD	IS 3025 (Part-58)	mg/l.	24
5. Total Suspended Solids	IS 3025 (Part-17)	mg/l.	31
6. Total Dissolved Solids	IS 3025 (Part-16)	mg/l.	208
7. Conductivity	IS 3025 (Part-14)	µmhos/cm.	390
8. Turbidity, NTU	IS 3025 (Part-10)	NTU	5.4
9. Sulphate as SO ₄	IS 3025 (Part-24)	mg/l.	16.2
10.Dissolved Phosphate as P	APHA (4500-P-D)	mg/l.	0.38
11.Ammonical Nitrogen as N	IS 3025 (Part-34)	mg/l.	1.7
12.Total Alkalinity as CaCO ₃	IS 3025 (Part-23)	mg/l.	136
13.Total Hardness as CaCO ₃	IS 3025 (Part-21)	mg/l.	156
14.Calcium Hardness as CaCO ₃	IS 3025 (Part-40)	mg/l.	86
15.Magnesium Hardness asCaCO ₃	IS 3025 (Part-46)	mg/l.	70
16.Fluoride as F	APHA 4500 (F D)	mg/l.	0.42
17.Chloride as Cl	IS 3025 (Part-32)	mg/l.	22.0
18.Boron as B	APHA4500BB	mg/l.	0.11
19.Total Kjeldahl Nitrogen as N	APHA (4500 N org)	mg/l.	3.4
20.Total Coliform	IS 1622	MPN/100 ml.	2100

Verified By :

Technical Manager

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10/06/23



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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6105		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Project Site (S1) [Lat. 25° 0'26.41"N; Long.85°38'33.82"E]			
e) Analysis Start Date		02.10.2023			
f) Analysis Completion Date		03.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
01-10-2023	64.6	29.6	9.4	16.8	0.10
05-10-2023	59.8	30.9	14.2	24.6	0.16
08-10-2023	45.9	28.4	10.2	19.7	0.11
12-10-2023	54.6	27.6	11.3	21.3	0.15
16-10-2023	52.5	27.1	9.1	18.6	0.23
19-10-2023	56.2	27.8	10.9	21.6	0.18
25-10-2023	63.5	26.3	11.8	25.6	0.15
29-10-2023	61.7	34.6	13.4	20.4	0.12
Min ^m Value	45.9	26.3	9.1	16.8	0.10
Max ^m Value	64.6	34.6	14.2	25.6	0.23
Average Value	57.4	29.0	11.3	21.1	0.15
98 th %ile	64.4	34.1	14.1	25.5	0.22
NAAQS 2009	100	60	80	80	4



Verified By :
Technical Manager

Handwritten signature
08/11/23

-- END OF TEST REPORT --

Handwritten signature
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6106		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Bazidpur (S2) [Lat. 24°59'49.43"N; Long 85°41'55.38"E]			
e) Analysis Start Date		02.10.2023			
f) Analysis Completion Date		03.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
01-10-2023	51.2	30.6	10.3	18.9	0.16
05-10-2023	44.3	28.9	10.6	19.6	0.11
08-10-2023	49.6	31.5	8.9	16.8	0.18
12-10-2023	52.4	32.6	8.6	18.6	0.21
16-10-2023	51.3	30.2	12.7	26.9	0.15
19-10-2023	52.3	31.6	7.7	15.8	0.12
25-10-2023	61.3	36.8	8.6	15.7	0.10
29-10-2023	57.3	35.5	12.7	25.8	0.14
Min ^m Value	44.3	28.9	7.7	15.7	0.10
Max ^m Value	61.3	36.8	12.7	26.9	0.21
Average Value	52.5	32.2	10.0	19.8	0.15
98 th %ile	60.7	36.6	12.7	26.7	0.21
NAAQS 2009	100	60	80	80	4



Verified By : *[Signature]*
Technical Manager

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[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6107		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Bojhwan (S3) [Lat25° 3'21.56"N; Long85°41'27.61"E]			
e) Analysis Start Date		04.10.2023			
f) Analysis Completion Date		03.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
03-10-2023	48.9	27.5	7.1	14.3	0.18
05-10-2023	45.8	25.6	6.5	12.4	0.21
08-10-2023	41.3	24.5	8.4	18.9	0.15
12-10-2023	52.3	30.4	7.6	21.5	0.26
16-10-2023	48.2	28.5	8.9	17.6	0.22
19-10-2023	56.8	32.4	9.5	19.6	0.14
25-10-2023	57.3	33.3	10.5	20.2	0.12
29-10-2023	42.6	25.4	7.4	23.4	0.16
Min ^m . Value	41.3	24.5	6.5	12.4	0.12
Max ^m . Value	57.3	33.3	10.5	23.4	0.26
Average Value	49.2	28.5	8.2	18.5	0.18
98 th %ile	57.2	33.2	10.4	23.1	0.25
NAAQS 2009	100	60	80	80	4



Verified By :
Technical Manager

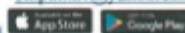
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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6108		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Katrisarai (S4) [Lat. 25° 4'54.25"N; Long85°38'6.67"E]			
e) Analysis Start Date		03.10.2023			
f) Analysis Completion Date		02.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
01-10-2023	46.9	26.3	10.2	20.3	0.22
05-10-2023	51.7	31.2	9.2	18.6	0.36
08-10-2023	55.6	31.2	10.2	21.3	0.24
12-10-2023	57.4	33.4	11.3	23.6	0.20
16-10-2023	60.1	35.0	13.5	26.1	0.21
19-10-2023	52.8	28.6	11.0	21.9	0.32
25-10-2023	48.0	28.4	11.4	21.7	0.28
29-10-2023	55.1	33.8	12.2	23.8	0.25
Min ^m Value	46.9	26.3	9.2	18.6	0.20
Max ^m Value	60.1	35.0	13.5	26.1	0.36
Average Value	53.5	31.0	11.1	22.2	0.26
98 th %ile	59.7	34.8	13.3	25.8	0.35
NAAQS 2009	100	60	80	80	4



Verified By :
Technical Manager

[Signature]
08/11/23

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[Signature]
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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6148		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Katauna(S5) [Lat. 25° 2'47.35"N; Long. 85°35'27.31"E]			
e) Analysis Start Date		05.10.2023			
f) Analysis Completion Date		03.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
03-10-2023	48.7	28.2	11.3	21.4	0.11
06-10-2023	49.3	30.9	13.2	16.7	0.08
10-10-2023	50.1	30.1	10.2	23.1	0.16
13-10-2023	52.4	32.6	12.7	20.6	0.05
17-10-2023	45.5	27.4	13.6	24.6	0.10
20-10-2023	47.8	28.6	9.4	22.3	0.08
25-10-2023	53.5	32.4	8.6	18.0	0.10
30-10-2023	55.0	34.6	12.7	25.8	0.12
Min ^m Value	45.5	27.4	8.6	16.7	0.05
Max ^m Value	55.0	34.6	13.6	25.8	0.16
Average Value	50.3	30.6	11.5	21.6	0.10
98 th %ile	54.8	34.3	13.5	25.6	0.15
NAAQS 2009	100	60	80	80	4



Verified By :
Technical Manager

[Signature]
08/11/23

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[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6149		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Saur (S6) [Lat24°59'54.90"N; Long. 85°35'1.78"E]			
e) Analysis Start Date		05.10.2023			
f) Analysis Completion Date		03.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
03-10-2023	48.2	27.8	10.8	21.1	0.15
06-10-2023	46.5	26.2	11.9	25.5	0.12
10-10-2023	50.1	29.7	10.2	23.1	0.21
13-10-2023	51.3	30.0	9.8	19.9	0.18
17-10-2023	47.8	28.3	9.2	21.2	0.20
20-10-2023	41.8	25.6	8.2	22.4	0.14
26-10-2023	54.1	32.4	8.0	19.2	0.20
30-10-2023	55.4	35.0	13.1	26.0	0.16
Min ^m . Value	41.8	25.6	8.0	19.2	0.12
Max ^m . Value	55.4	35.0	13.1	26.0	0.21
Average Value	49.4	29.4	10.2	22.3	0.17
98 th %ile	55.2	34.6	12.9	25.9	0.21
NAAQS 2009	100	60	80	80	4



Verified By :
Technical Manager

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6150		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Sikandra (S7) [Lat. 24°58'2.90"N; Long. 85°35'24.57"E]			
e) Analysis Start Date		06.10.2023			
f) Analysis Completion Date		04.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
04-10-2023	42.3	24.0	7.1	14.3	0.10
06-10-2023	43.2	27.1	10.3	18.9	0.05
10-10-2023	44.7	25.8	8.4	20.3	0.14
13-10-2023	52.3	29.6	7.6	21.5	0.08
17-10-2023	47.4	28.5	8.4	17.0	0.11
20-10-2023	56.5	31.6	8.9	19.6	0.10
26-10-2023	57.3	33.3	9.6	21.6	0.06
30-10-2023	42.6	24.6	6.4	21.8	0.12
Min ^m . Value	42.3	24.0	6.4	14.3	0.05
Max ^m . Value	57.3	33.3	10.3	21.8	0.14
Average Value	48.3	28.1	8.3	19.4	0.10
98 th %ile	57.2	33.1	10.2	21.8	0.14
NAAQS 2009	100	60	80	80	4



Verified By : *[Signature]*
Technical Manager

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 6151		Dt: 08.11.2023			
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample		Monitoring of Ambient Air Quality			
c) Sample Collected by		Lab Representative of Shiva Test House, Patna			
d) Sampling Location		Dosut(S8) [Lat. 24°56'36.22"N; Long. 85°39'46.22"E]			
e) Analysis Start Date		06.10.2023			
f) Analysis Completion Date		04.11.2023			
Parameters (Unit)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
Method of Test	IS 5182 (P-23)	IS 5182 (P-23)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-10)
Date of Monitoring	Monitoring Results				
04-10-2023	49.6	31.2	11.6	22.6	0.12
06-10-2023	45.2	27.6	8.8	16.8	0.08
10-10-2023	48.5	29.4	9.1	18.7	0.10
13-10-2023	50.3	30.1	9.9	23.4	0.14
17-10-2023	49.6	31.4	13.4	26.7	0.12
20-10-2023	55.8	33.5	8.6	16.5	0.16
26-10-2023	55.1	33.2	10.5	23.4	0.11
30-10-2023	52.3	33.9	11.3	22.3	0.10
Min ^m . Value	45.2	27.6	8.6	16.5	0.08
Max ^m . Value	55.8	33.9	13.4	26.7	0.16
Average Value	50.8	31.3	10.4	21.3	0.12
98 th %ile	55.7	33.8	13.1	26.2	0.16
NAAQS 2009	100	60	80	80	4



Verified By :
Technical Manager

[Signature]
08/11/23

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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5427		Dt: 15.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Project Site (N1) [Lat 25° 0'25.49"N ; Long. 85°38'40.88"E]		
e) Sampling Date		10/11.10.23		
f) Analysis Start Date		12.10.2023		
g) Analysis Completion Date		13.10.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Indl. Area)
Day Time Leq	dB(A)	IS 9989	47.2	75
Night Time Leq	dB(A)	IS 9989	34.8	70



Verified By :
Technical Manager

[Signature]
15/10/23

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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5428		Dt: 15.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ambient Noise Level		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Mosima (N2) [Lat. 24°59'50.02"N Long 85°38'40.35"E]		
e) Sampling Date		10/11.10.23		
f) Analysis Start Date		12.10.2023		
g) Analysis Completion Date		13.10.2023		
Parameters	Unit	Test Method	Result	CPCB Standards (Comm. Area)
Day Time Leq	dB(A)	IS 9989	58.1	65
Night Time Leq	dB(A)	IS 9989	44.1	55



Verified By :
Technical Manager

Signature
15/10/23

Signature
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5429	Dt: 15.10.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Khanpur (N3) [Lat. 25° 0'27.18"N; Long. 85°39'12.24"E]			
e) Sampling Date	10/11.10.23			
f) Analysis Start Date	12.10.2023			
g) Analysis Completion Date	13.10.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	48.6	55
Night Time Leq	dB(A)	IS 9989	34.2	45



Verified By :
Technical Manager

Signature
15/10/23

Signature
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5430	Dt: 15.10.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Patel Nagar (N4) [Lat. 25° 0'49.72"N; Long. 85°38'44.29"E]			
e) Sampling Date	10/11.10.23			
f) Analysis Start Date	12.10.2023			
g) Analysis Completion Date	13.10.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	52.3	55
Night Time Leq	dB(A)	IS 9989	39.1	45



Verified By :
Technical Manager

Signature
15/10/23

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Signature
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5797	Dt: 15.10.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Krishnapur Road (N5) [Lat. 25° 0'47.77"N; Long. 85°38'16.67"E]			
e) Sampling Date	16/17.10.23			
f) Analysis Start Date	18.10.2023			
g) Analysis Completion Date	19.10.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	66.5	55
Night Time Leq	dB(A)	IS 9989	47.7	45



Verified By :
Technical Manager

[Signature]
15/10/23

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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5798	Dt: 15.10.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Jawahar Park (N6) [Lat. 25° 0'36.52"N; Long. 85°38'7.29"E]			
e) Sampling Date	16/17.10.23			
f) Analysis Start Date	18.10.2023			
g) Analysis Completion Date	19.10.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Comm. Area)
Day Time Leq	dB(A)	IS 9989	52.2	65
Night Time Leq	dB(A)	IS 9989	38.5	55



Verified By : 
Technical Manager


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Quality Manager

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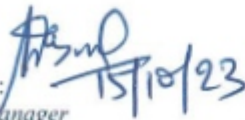
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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5799	Dt: 15.10.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Near Chandani Chowk (N7) [Lat. 25° 0'25.25"N; Long. 85°37'50.92"E]			
e) Sampling Date	16/17.10.23			
f) Analysis Start Date	18.10.2023			
g) Analysis Completion Date	19.10.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Comm. Area)
Day Time Leq	dB(A)	IS 9989	53.7	65
Night Time Leq	dB(A)	IS 9989	40.1	55



Verified By : 
Technical Manager

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5800	Dt: 15.10.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ambient Noise Level			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Near PWD Office ,Warsaliganj (N8) [Lat. 25° 0'1.88"N; Long. 85°38'6.15"E]			
e) Sampling Date	16/17.10.23			
f) Analysis Start Date	18.10.2023			
g) Analysis Completion Date	19.10.2023			
Parameters	Unit	Test Method	Result	CPCB Standards (Residential Area)
Day Time Leq	dB(A)	IS 9989	52.5	55
Night Time Leq	dB(A)	IS 9989	39.4	45



Verified By :

Technical Manager

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15/10/23

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5797		Dt: 27.10.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Project Site (S1) [Lat. 25° 0'20.02"N; Long.85°38'34.27"E]	
e) Sampling Date		17.10.2023	
f) Analysis Start Date		18.10.2023	
g) Analysis Completion Date		24.10.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.61
2. Conductivity		µmhos/cm.	248.0
3. Particle Size Distribution			
i. Gravel		%	0.48
ii. Sand		%	11.2
iii. Silt		%	16.4
iv. Clay		%	15.0
4. Water Holding Capacity		%	32.0
5. Porosity		%	9.0
6. Organic Carbon		%	0.22
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	5.0
8. Available Nitrogen as N		Kg/Hec.	188.0
9. Available Potassium as K ₂ O		Kg/Hec.	46.0



Verified By :

Technical Manager

[Signature]
27/10/23

– END OF TEST REPORT –

[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5798		Dt: 27.10.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Bazidpur (S2) [Lat. 24°59'50.43"N; Long85°41'52.90"E]	
e) Sampling Date		17.10.2023	
f) Analysis Start Date		18.10.2023	
g) Analysis Completion Date		24.10.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.91
2. Conductivity		µmhos/cm.	256.0
3. Particle Size Distribution			
i. Gravel		%	0.52
ii. Sand		%	15.0
iii. Silt		%	14.0
iv. Clay		%	18.0
4. Water Holding Capacity		%	54.0
5. Porosity		%	15.0
6. Organic Carbon		%	0.34
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	7.1
8. Available Nitrogen as N		Kg/Hec.	210.0
9. Available Potassium as K ₂ O		Kg/Hec.	65.0



Verified By :

Technical Manager

[Signature]
27/10/23

[Signature]

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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5799		Dt: 27.10.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Katauna(S3) [Lat. 25° 2'5187"N; Long. 85°35'51.20"E]	
e) Sampling Date		17.10.2023	
f) Analysis Start Date		18.10.2023	
g) Analysis Completion Date		24.10.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.51
2. Conductivity		µmhos/cm.	230.0
3. Particle Size Distribution			
i. Gravel		%	0.36
ii. Sand		%	12.0
iii. Silt		%	19.0
iv. Clay		%	13.0
4. Water Holding Capacity		%	51.0
5. Porosity		%	11.0
6. Organic Carbon		%	0.36
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	6.2
8. Available Nitrogen as N		Kg/Hec.	198.0
9. Available Potassium as K ₂ O		Kg/Hec.	50.0



Verified By :

Technical Manager

[Signature]
27/10/23

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[Signature]

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Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5974		Dt: 02.11.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Saur (S4) [Lat24°59'55.23"N; Long. 85°35'6.16"E]	
e) Sampling Date		25.10.2023	
f) Analysis Start Date		26.10.2023	
g) Analysis Completion Date		31.10.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.41
2. Conductivity		µmhos/cm.	232.0
3. Particle Size Distribution			
i. Gravel		%	0.41
ii. Sand		%	24.0
iii. Silt		%	12.0
iv. Clay		%	16.0
4. Water Holding Capacity		%	40.0
5. Porosity		%	9.0
6. Organic Carbon		%	0.26
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	10.8
8. Available Nitrogen as N		Kg/Hec.	216.0
9. Available Potassium as K ₂ O		Kg/Hec.	60.0



Verified By :
Technical Manager

Handwritten signature
02/11/23

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5975		Dt: 02.11.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Soil Sample (15 cm. Depth)	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		Sikandra (S5) [Lat. 24°58'1.27"N; Long. 85°35'25.12"E]	
e) Sampling Date		25.10.2023	
f) Analysis Start Date		26.10.2023	
g) Analysis Completion Date		31.10.2023	
Parameter	Test Method	Unit	Results
1. pH	Method Manual Soil Testing in India Ministry of Agriculture, Govt. of India	-	7.65
2. Conductivity		µmhos/cm.	242.0
3. Particle Size Distribution			
i. Gravel		%	0.50
ii. Sand		%	16.0
iii. Silt		%	20.0
iv. Clay		%	11.0
4. Water Holding Capacity		%	61.0
5. Porosity		%	20
6. Organic Carbon		%	0.30
7. Available Phosphate as P ₂ O ₅		Kg/Hec.	8.4
8. Available Nitrogen as N		Kg/Hec.	210
9. Available Potassium as K ₂ O		Kg/Hec.	62.0



Verified By :

Technical Manager

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02/11/23

– END OF TEST REPORT –

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Authorized Signatory
Quality Manager

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Email : sthpatna1@yahoo.co.in ; info@shivatest.com

Website : www.shivatest.com ; www.shivatesthouse.com





SHIVA TEST HOUSE

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5240		Dt: 15.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Project Site (W1) [Lat. 25° 0'26.41"N ; Long. 85°38'33.82"E]		
e) Sampling Date		08.10.2023		
f) Analysis Start Date		09.10.2023		
g) Analysis Completion Date		13.10.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l, except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.81
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	284.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	156.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	28.8
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	20.4
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	210.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	16.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	5.8
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.15
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	4.8
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.32
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.36
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

[Signature]
15/10/23



-- END OF TEST REPORT --

[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :

Technical Manager

Handwritten signature and date 15/10/23

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Handwritten signature of Shreysee Patel

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5241		Dt: 15.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Bazidpur (W2) [Lat. 24°59'49.43"N; Long. 85°41'55.38"E]		
e) Sampling Date		08.10.2023		
f) Analysis Start Date		09.10.2023		
g) Analysis Completion Date		13.10.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.42
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	328.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	180.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	32.0
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	24.3
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	212.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	20.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	7.9
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.22
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	5.8
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.41
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.42
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

[Signature]
15/10/23

— END OF TEST REPORT —



[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :
Technical Manager

[Signature]
TST/23

— END OF TEST REPORT —

[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5242		Dt: 15.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Bojhwan (W3) [Lat. 25° 3'21.56"N; Long. 85°41'27.61"E]		
e) Sampling Date		08.10.2023		
f) Analysis Start Date		09.10.2023		
g) Analysis Completion Date		13.10.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.79
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	361.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	196.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	40.8
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	22.8
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	228.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	16.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	9.8
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.17
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	7.6
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.50
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.40
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :

Technical Manager

[Signature]
15/10/23

-- END OF TEST REPORT --



[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :

Technical Manager

Signature
15/10/23

Signature

Authorized Signatory
Quality Manager

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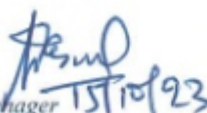
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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5243		Dt: 15.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Katarisarai (W4) [Lat. 25° 4'54.25"N; Long. 85°38'6.67"E]		
e) Sampling Date		08.10.2023		
f) Analysis Start Date		09.10.2023		
g) Analysis Completion Date		13.10.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.04
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.36
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	240.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	172.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	33.6
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	21.4
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	198.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	20.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	11.2
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.10
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	9.8
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.78
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.42
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By : 
Technical Manager



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Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :
Technical Manager

Handwritten signature and date 15/10/23

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5924		Dt: 27.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Katauna (W5) [Lat. 25° 2'47.35"N; Long. 85°35'27.31"E]		
e) Sampling Date		20.10.2023		
f) Analysis Start Date		21.10.2023		
g) Analysis Completion Date		25.10.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	<1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.59
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	238.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	148.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	28.0
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	19.0
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	180.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	18.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	7.2
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.10
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	6.1
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.51
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.42
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

[Signature]
23/10/23



– END OF TEST REPORT –

[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :
Technical Manager

Handwritten signature
27/10/23

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Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5925	Dt: 27.10.2023			
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)			
b) Details of Sample	Ground Water Sample			
c) Sample Collected by	Lab Representative of Shiva Test House, Patna			
d) Sampling Location	Saur (W6) [Lat. 24°59'54.90"N; Long. 85°35'1.78"E]			
e) Sampling Date	20.10.2023			
f) Analysis Start Date	21.10.2023			
g) Analysis Completion Date	25.10.2023			
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.10
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.21
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	252.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	168.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	32.0
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	21.4
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	204.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	21.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	11.6
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.1
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	9.8
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.44
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.36
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :
Technical Manager

[Signature]
27/10/23



-- END OF TEST REPORT --

[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :
Technical Manager

[Signature]
23/10/23

— END OF TEST REPORT —

[Signature]
Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5926		Dt: 27.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Sikandra(W7) [Lat. 24°58'2.90"N; Long. 85°35'24.57"E]		
e) Sampling Date		20.10.2023		
f) Analysis Start Date		21.10.2023		
g) Analysis Completion Date		25.10.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	1.18
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.62
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	264.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	184.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	32.8
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	24.8
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	208.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	24.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	10.2
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.26
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	5.8
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.68
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.38
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :

Technical Manager

[Signature]
27/10/23



-- END OF TEST REPORT --

[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :

Technical Manager

[Signature]
27/10/23

[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5927		Dt: 27.10.2023		
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample		Ground Water Sample		
c) Sample Collected by		Lab Representative of Shiva Test House, Patna		
d) Sampling Location		Dosut(W8) [Lat. 24°56'36.22"N; Long. 85°39'46.22"E]		
e) Sampling Date		20.10.2023		
f) Analysis Start Date		21.10.2023		
g) Analysis Completion Date		25.10.2023		
Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
1. Colour, Hazen Unit	5.0	15.0	IS 3025 (Part-4)	< 5.00
2. Odour	Agreeable		IS 3025 (Part-5)	Agreeable
3. Taste	Agreeable		IS 3025 (Part-7)	Agreeable
4. Turbidity	1.0	5.0	IS 3025 (Part-10)	<1.0
5. pH	6.5 to 8.5	No Relaxation	IS 3025 (Part-11)	7.81
6. Total Dissolved Solids, mg/l.	500.0	2000.0	IS 3025 (Part-16)	292.0
7. Total hardness as CaCO ₃ , mg/l.	200.0	600.0	IS 3025 (Part-21)	184.0
8. Calcium as Ca, mg/l.	75.0	200.0	IS 3025 (Part-40)	29.6
9. Magnesium as Mg, mg/l.	30.0	100.0	IS 3025 (Part-46)	26.7
10. Total Alkalinity as CaCO ₃ , mg/l.	200	600.0	IS 3025 (Part-23)	204.0
11. Residual Free Chlorine, mg/l.	0.2	1	IS 3025 (Part-26)	<0.1
12. Chloride as Cl, mg/l.	250.0	1000.0	IS 3025 (Part-32)	20.0
13. Sulphate as SO ₄ , mg/l.	200.00	400.00	IS 3025 (Part-24)	8.4
14. Fluoride as F, mg/l.	1.0	1.5	APHA 4500 (F D)	0.18
15. Nitrate as NO ₃ , mg/l.	45.00	No relaxation	IS 3025 (Part-34)	5.4
16. Boron as 'B', mg/l.	0.5	2.4	APHA 4500 B B	<0.05
17. Iron as Fe, mg/l.	1.0	No relaxation	APHA 3500 Fe B	0.60
18. Copper as Cu, mg/l.	0.05	1.50	APHA (3111 B)	< 0.05
19. Zinc as Zn, mg/l.	5.00	15.00	APHA (3111 B)	0.42
20. Chromium as Cr, mg/l.	0.05	No Relaxation	APHA (3111 B)	< 0.05
21. Arsenic as As, mg/l.	0.01	No Relaxation	APHA (3114 B)	< 0.01
22. Manganese as Mn, mg/l.	0.1	0.3	APHA 3111 B	<0.01

Verified By :

Technical Manager

[Signature]
27/10/23



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[Signature]
Authorized Signatory
Quality Manager

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RECOGNISED AS ENVIRONMENTAL LABORATORY BY MOEFCC, GOVT. OF INDIA, UNDER ENVIRONMENT (PROTECTION) ACT 1986, DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Parameters	Requirement as per IS 10500 : 2012		Method of Test	Results in mg/l. except Colour, Odour, Taste, Turbidity, & pH
	Acceptable Limit	Permissible Limit in the absence of alternative source		
23. Mercury as Hg, mg/l.	0.001	No Relaxation	APHA 3112 B	<0.001
24. Cadmium as Cd, mg/l.	0.003	No Relaxation	APHA 3111 B	<0.001
25. Selenium as Se, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
26. Cyanide as CN, mg/l.	0.05	No Relaxation	IS 3025 (Part-27)	<0.01
27. Lead as Pb, mg/l.	0.01	No Relaxation	APHA 3111 B	<0.01
28. Aluminium as Al, mg/l.	0.03	0.2	APHA 3111 D	<0.01
29. Anionic Detergent, mg/l.	0.2	1.0	APHA	<0.1
30. Mineral Oil, mg/l.	0.5	No Relaxation	APHA	<0.1
31. Phenolic Compound as C ₆ H ₅ OH, mg/l.	0.001	0.002	APHA 6431 B	<0.001
32. Total Coliform, CFU/100 ml.	Shall not be detectable in 100 ml.		IS 15185 : 2016	Absent
33. E.coli, CFU/100 ml.			IS 15185 : 2016	Absent



Verified By :

Technical Manager

[Signature]
27/11/23

-- END OF TEST REPORT --

[Signature]

Authorized Signatory
Quality Manager

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
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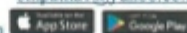
Page 2 of 2

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5751-SW1	Dt: 23.10.2023		
a) Name and address of the Customer	BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)		
b) Details of Sample	Surface Water Sample		
c) Sample Collected by	Lab Representative of Shiva Test House, Patna		
d) Sampling Location	River Sakri (Murgichak (SW1) [Lat. 25° 0'50.64"N; Long. 85°34'7.01"E]		
e) Sampling Date	16.10.2023		
f) Analysis Start Date	17.10.2023		
g) Analysis Completion Date	21.10.2023		
Parameter	Test Method	Unit	Results
1. pH	IS 3025 (Part-11)	---	7.42
2. Dissolved Oxygen	IS 3025 (Part-38)	mg/l.	6.6
3. BOD (3 days at 27°C)	IS 3025 (Part-44)	mg/l.	1.8
4. COD	IS 3025 (Part-58)	mg/l.	20
5. Total Suspended Solids	IS 3025 (Part-17)	mg/l.	59
6. Total Dissolved Solids	IS 3025 (Part-16)	mg/l.	180
7. Conductivity	IS 3025 (Part-14)	μmhos/cm.	332
8. Turbidity, NTU	IS 3025 (Part-10)	NTU	<5.0
9. Sulphate as SO ₄	IS 3025 (Part-24)	mg/l.	13.8
10. Dissolved Phosphate as P	APHA (4500-P-D)	mg/l.	0.28
11. Ammonical Nitrogen as N	IS 3025 (Part-34)	mg/l.	0.56
12. Total Alkalinity as CaCO ₃	IS 3025 (Part-23)	mg/l.	112
13. Total Hardness as CaCO ₃	IS 3025 (Part-21)	mg/l.	132
14. Calcium Hardness as CaCO ₃	IS 3025 (Part-40)	mg/l.	76.0
15. Magnesium Hardness as CaCO ₃	IS 3025 (Part-46)	mg/l.	56.0
16. Fluoride as F	APHA 4500 (F D)	mg/l.	0.32
17. Chloride as Cl	IS 3025 (Part-32)	mg/l.	18
18. Boron as B	APHA4500BB	mg/l.	0.1
19. Total Kjeldahl Nitrogen as N	APHA (4500 N org)	mg/l.	1.12
20. Total Coliform	IS 1622	MPN/100 ml.	1100

Verified By :

Technical Manager

[Signature]
23/10/23



-- END OF TEST REPORT --

[Signature]

Authorized Signatory
Quality Manager

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TEST REPORT

Report No. STH / TR / BIADA / 23-24 / 5752-SW2		Dt: 23.10.2023	
a) Name and address of the Customer		BIHAR INDUSTRIAL AREA DEVELOPMENT AUTHORITY (Project : Industrial Area Warsaliganj) Mauza : Mosma, Samichak, Sherpur, Mafi Block : Warsaliganj Dist. Nawada – 805 130 (Bihar)	
b) Details of Sample		Surface Water Sample	
c) Sample Collected by		Lab Representative of Shiva Test House, Patna	
d) Sampling Location		River Sakri (Sultanpur) (SW2) [Lat. 24°58'24.08"N; Long. 85°36'26.86"E]	
e) Sampling Date		16.10.2023	
f) Analysis Start Date		17.10.2023	
g) Analysis Completion Date		21.10.2023	
Parameter	Test Method	Unit	Results
1. pH	IS 3025 (Part-11)	---	7.28
2. Dissolved Oxygen	IS 3025 (Part-38)	mg/l.	6.0
3. BOD (3 days at 27°C)	IS 3025 (Part-44)	mg/l.	2.2
4. COD	IS 3025 (Part-58)	mg/l.	28
5. Total Suspended Solids	IS 3025 (Part-17)	mg/l.	52
6. Total Dissolved Solids	IS 3025 (Part-16)	mg/l.	188
7. Conductivity	IS 3025 (Part-14)	µmhos/cm.	348
8. Turbidity, NTU	IS 3025 (Part-10)	NTU	5.8
9. Sulphate as SO ₄	IS 3025 (Part-24)	mg/l.	14.4
10. Dissolved Phosphate as P	APHA (4500-P-D)	mg/l.	0.36
11. Ammonical Nitrogen as N	IS 3025 (Part-34)	mg/l.	1.12
12. Total Alkalinity as CaCO ₃	IS 3025 (Part-23)	mg/l.	120
13. Total Hardness as CaCO ₃	IS 3025 (Part-21)	mg/l.	144
14. Calcium Hardness as CaCO ₃	IS 3025 (Part-40)	mg/l.	80
15. Magnesium Hardness as CaCO ₃	IS 3025 (Part-46)	mg/l.	64
16. Fluoride as F	APHA 4500 (F D)	mg/l.	0.38
17. Chloride as Cl	IS 3025 (Part-32)	mg/l.	20.0
18. Boron as B	APHA 4500BB	mg/l.	0.10
19. Total Kjeldahl Nitrogen as N	APHA (4500 N org)	mg/l.	1.68
20. Total Coliform	IS 1622	MPN/100 ml.	1700

Verified By :
Technical Manager

[Signature]
23/10/23



– END OF TEST REPORT –

[Signature]
Authorized Signatory
Quality Manager

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