

ENVIRONMENT MONITORING REPORT
FOR THE MONTH OF
OCTOBER - 2025



Client- M/s SREE METALIKS LTD.

Address- Khandbandh, Joda,

Dist- Keonjhar, Odisha



Monitored By - Green Force Associates Pvt. Ltd.

Address- Plot No-1363/3850, Baibhab Nagar,

Lane-2, Nakhara, Dist-Khorda, Odisha- 754001

NABL Certificate No:- TC-12258

PHOTOGRAPHS OF ENVIRONMENT MONITORING



Report No- GFAPL/25-26/SMK/093

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034		
Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ1 - Near mines office Lat- 21°57'47.34"N; & Long- 85°22'30.79"E		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	41.5	19.6	4.6	9.6
06.10.2025	38.9	18.2	4.6	9.6
09.10.2025	47.8	23.8	5.4	10.6
13.10.2025	53.2	26.5	6.2	11.8
16.10.2025	55.7	27.9	6.4	12.2
20.10.2025	58.2	29.4	6.8	12.8
23.10.2025	61.6	30.8	7.2	13.2
27.10.2025	65.4	32.2	7.6	14.2
30.10.2025	59.2	28.9	6.4	12.8
Max	65.40	32.20	7.60	14.20
Min	38.90	18.20	4.60	9.60
Avg	53.50	26.37	6.13	11.87
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

Reviewed By
CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Chief Analyst
Miss. Arti Sahoo
BHUBANESWAR, ODISHA

Authorized Signatory
TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Technical Manager
Mr. S.K. Parhi
BHUBANESWAR, ODISHA

Note:

- The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied.
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Report No- GFAPL/25-26/SMK/094

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ2 - Near Pillar No. F-1 Lat- 21°57'33.77"N; & Long- 85°22'27.28"E;		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	43.2	20.1	4.6	9.6
06.10.2025	40.6	18.8	4.6	9.6
09.10.2025	48.8	24.2	5.6	10.8
13.10.2025	56.2	28.1	6.4	12.2
16.10.2025	59.2	29.7	6.8	12.8
20.10.2025	61.4	31.6	7.2	13.4
23.10.2025	64.6	32.6	7.8	13.8
27.10.2025	68.2	34.4	8.2	14.8
30.10.2025	61.6	30.8	7.2	13.8
Max	68.20	34.40	8.20	14.80
Min	40.60	18.80	4.60	9.60
Avg	55.98	27.81	6.49	12.31
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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Bhubaneswar, Odisha

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Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ3 - Near Workshop-Pillar No. 8 Lat- 21°57'38.03"N; Long- 85°22'43.58"E;		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	42.4	19.6	4.6	9.6
06.10.2025	40.1	18.2	4.6	9.6
09.10.2025	48.5	24.2	5.2	10.4
13.10.2025	55.2	27.5	6.2	11.8
16.10.2025	57.5	28.6	6.4	12.4
20.10.2025	59.2	29.7	6.8	13.0
23.10.2025	62.7	31.5	7.2	13.4
27.10.2025	66.2	33.5	7.8	14.8
30.10.2025	60.8	30.3	7.0	13.2
Max	66.20	33.50	7.80	14.80
Min	40.10	18.20	4.60	9.60
Avg	54.73	27.01	6.20	12.02
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ4 - Near Pillar No.C2 Lat- 21°57'47.69"N; & Long- 85°22'34.50"E;		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	34.6	16.4	<4.0	<9.0
06.10.2025	33.8	15.9	<4.0	<9.0
09.10.2025	41.5	20.2	4.6	9.6
13.10.2025	46.9	23.4	5.0	10.2
16.10.2025	50.8	25.5	5.4	10.8
20.10.2025	54.4	27.4	5.8	11.6
23.10.2025	58.2	29.2	6.2	12.2
27.10.2025	62.4	31.2	6.8	13.6
30.10.2025	58.5	29.2	6.0	11.6
Max	62.40	31.20	6.80	13.60
Min	33.80	15.90	<4.0	<9.0
Avg	49.01	24.27	5.69	11.37
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ5 - Near Village Jalahari Lat- 21°57'4.98"N; & Long- 85°25'11.00"E		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	22.6	10.8	<4.0	<9.0
06.10.2025	20.4	10.1	<4.0	<9.0
09.10.2025	28.9	14.2	<4.0	<9.0
13.10.2025	34.8	17.4	<4.0	<9.0
16.10.2025	38.2	19	<4.0	<9.0
20.10.2025	41.6	20.8	<4.0	<9.0
23.10.2025	44.5	22.2	4.6	9.8
27.10.2025	49.4	24.6	4.8	10
30.10.2025	45.2	22.4	4.6	9.6
Max	49.40	24.60	4.80	10.00
Min	20.40	10.10	<4.0	<9.0
Avg	36.18	17.94	4.67	9.80
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ6 - Near Village Bicchakund Lat- 21°59'29.23"N; & Long- 85°24'08.85"E;		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	25.6	12.2	<4.0	<9.0
06.10.2025	24.8	11.8	<4.0	<9.0
09.10.2025	30.6	15.1	<4.0	<9.0
13.10.2025	36.9	18.4	<4.0	<9.0
16.10.2025	40.5	20.1	<4.0	<9.0
20.10.2025	43.8	21.5	<4.0	<9.0
23.10.2025	48.2	24.1	4.8	9.8
27.10.2025	52.4	26.1	5.0	10.2
30.10.2025	45.6	22.3	4.6	9.6
Max	52.40	26.10	5.00	10.20
Min	24.80	11.80	<4.0	<9.0
Avg	38.71	19.07	4.80	9.87
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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TEST REPORT

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Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ7 - Near Village Ganua Lat- 21°55'27.37"N; & Long- 85°20'58.26"E;		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	21.8	10.6	<4.0	<9.0
06.10.2025	20.4	10.1	<4.0	<9.0
09.10.2025	27.9	13.5	<4.0	<9.0
13.10.2025	32.6	16.2	<4.0	<9.0
16.10.2025	36.4	18.1	<4.0	<9.0
20.10.2025	39.2	19.4	<4.0	<9.0
23.10.2025	42.1	20.8	<4.0	<9.0
27.10.2025	45.2	22.2	<4.0	<9.0
30.10.2025	42.1	20.8	<4.0	<9.0
Max	45.20	22.20	<4.0	<9.0
Min	20.40	10.10	<4.0	<9.0
Avg	34.19	16.86	<4.0	<9.0
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ8 - Near Village Khandbandh Lat- 21°57'22.56"N; & Long- 85°23'58.44"E;		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS:5182		

Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02.10.2025	22.9	11.1	<4.0	<9.0
06.10.2025	21.1	10.5	<4.0	<9.0
09.10.2025	28.6	14.2	<4.0	<9.0
13.10.2025	35.2	17.6	<4.0	<9.0
16.10.2025	39.8	19.5	<4.0	<9.0
20.10.2025	44.2	22.1	<4.0	<9.0
23.10.2025	46.8	23.3	4.6	9.6
27.10.2025	49.2	24.5	4.8	9.8
30.10.2025	44.6	22.1	<4.0	<9.0
Max	49.20	24.50	4.80	9.80
Min	21.10	10.50	<4.0	<9.0
Avg	36.93	18.32	4.70	9.70
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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Nature of Sampling	Ambient Air Quality Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ1 – Near mines office; Lat- 21°57'47.34"N; & Long- 85°22'30.79"E AAQ2 – Near Pillar No. F-1; Lat- 21°57'30.72"N; & Long- 85°22'33.11"E; AAQ3 – Near Workshop-Pillar No. 8; Lat- 21°57'37.93"N; Long- 85°22'43.95"E; AAQ4 – Near Pillar No.C2; Lat- 21°57'48.14"N; & Long- 85°22'31.88"E;		
Instrument Used	CO Analyser		
Sampling Method	As Per IS:5182		

Date of Sampling	Result (mg/m3)			
	AAQ1	AAQ2	AAQ3	AAQ4
02.10.2025	0.22	0.23	0.23	0.18
06.10.2025	0.21	0.22	0.22	0.17
09.10.2025	0.26	0.28	0.26	0.23
13.10.2025	0.3	0.32	0.3	0.26
16.10.2025	0.32	0.33	0.31	0.29
20.10.2025	0.33	0.34	0.33	0.31
23.10.2025	0.34	0.35	0.34	0.32
27.10.2025	0.35	0.36	0.35	0.33
30.10.2025	0.33	0.33	0.32	0.31
Max	0.35	0.36	0.35	0.33
Min	0.21	0.22	0.22	0.17
Avg	0.30	0.31	0.30	0.27
NAAQ* Standard of CO	4			
Methods of Analysis	IS: 5182(Part- 10)			

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Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling Location & Coordinates	AAQ5 – Near Village Jalahuri; Lat- 21°57'4.98"N; & Long- 85°25'11.00"E; AAQ6 – Near Village Bicchakund; Lat- 21°59'29.23"N; & Long- 85°24'08.85"E; AAQ7 – Near Village Ganua; Lat- 21°55'27.37"N; & Long- 85°20'58.26"E; AAQ8 – Near Village Khandbandh; Lat- 21°57'22.56"N; & Long- 85°23'58.44"E;		
Instrument Used	CO Analyser		
Sampling Method	As Per IS:5182		

Date of Sampling	Result (mg/m3)			
	AAQ5	AAQ6	AAQ7	AAQ8
02.10.2025	0.10	0.12	0.10	0.10
06.10.2025	0.10	0.11	0.10	0.10
09.10.2025	0.13	0.14	0.12	0.13
13.10.2025	0.15	0.17	0.13	0.15
16.10.2025	0.17	0.19	0.15	0.18
20.10.2025	0.19	0.20	0.17	0.19
23.10.2025	0.21	0.22	0.19	0.21
27.10.2025	0.23	0.24	0.19	0.22
30.10.2025	0.20	0.22	0.17	0.19
Max	0.23	0.24	0.19	0.22
Min	0.10	0.11	0.10	0.10
Avg	0.16	0.18	0.15	0.16
NAAQ* Standard of CO	4			
Methods of Analysis	IS: 5182(Part- 10)			

Reviewed By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Mr. S.K. Parhi

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Mr. S.K. Parhi

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END OF REPORT

-1--

Report No- GFAPL/25-26/SMK/103

Issued Date- 04.11.2025

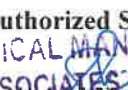
TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Fugitive Dust Emission		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling By	GFAPL's Representative		
Instrument Used	Respirable Dust Sampler (RDS)		
Sampling Method	As Per IS:5182		

Sl. No.	Sampling Locations	Date of Sampling	Result (µg/m³)
1	Near Mines bench: Lat- 21° 57' 39.95"N, Long-85° 22' 37.35"E	08.10.2025	342.5
		21.10.2025	624.5
2	Near Haul roads: Lat- 21° 57' 38.32"N, Long-85° 22' 33.52"E	08.10.2025	378.2
		21.10.2025	669.7
3	Near crushing point: Lat-21° 57' 38.37"N, Long-85° 22' 30.38"E	08.10.2025	246.5
		21.10.2025	524.8
4	Near screening plant: Lat-21° 57' 36.11"N, Long-85° 22' 30.43"E	08.10.2025	342.5
		21.10.2025	594.2
5	Near Ore storage and loading: Lat-21° 57' 41.49"N, Long- 85° 22' 31.43"E	08.10.2025	305.6
		21.10.2025	497.6
6	Near Waste dump: Lat-21° 57' 45.82"N, Long- 85° 22' 29.58"E	08.10.2025	369.8
		21.10.2025	642.1
Fugitive Standard			1200 - 2000
Methods of Analysis			IS:5182 (Part-4)

Reviewed By

CHIEF ANALYST
 GREENFORCE ASSOCIATES PRIVATE LIMITED
 BHUBANESWAR, ODISHA
 Miss. Anir Sahoo

Authorized Signatory

TECHNICAL MANAGER
 GREENFORCE ASSOCIATES PRIVATE LIMITED
 BHUBANESWAR, ODISHA
 Mr. S.K. Parhi

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--1--

Report No- GFAPL/25-26/SMK/104

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034		
Nature of Sampling	Workzone Noise Monitoring		
Location of performance of Laboratory activities	Site Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling By	GFAPL's Representative	Date of Sampling	18.10.2025
Instrument Used	Sound Level meter		
Sampling Method	As Per IS:9989		

S. No.	Locations	Day Time	Night Time
		Results in dB(A)	
1	Near mines office; Lat- 21°57'31.42"N; & Long- 85°22'38.83"E;	55.9	42.4
2	Near Pillar No. F-1 Lat- 21°57'30.72"N; & Long- 85°22'33.11"E;	59.2	45.1
3	Near Workshop-, Pillar No. 8 Lat- 21°57'37.93"N; Long- 85°22'43.95"E;	60.4	45.2
4	Near Pillar No.C2 Lat- 21°57'37.93"N; Long- 85°22'43.95"E;	60.6	45.5
Industrial Zone permissible limits as per CPCB Norms		Day Time – 75dB(A)	Night Time –70dB(A)

Reviewed By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, ODISHA
Mr. S.K. Parhi

Authorized Signatory
TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, ODISHA
Mr. S.K. Parhi

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--1--

Report No- GFAPL/25-26/SMK/105

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034		
Nature of Sampling	Ambient Noise Monitoring		
Location of performance of Laboratory activities	Site Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Sampling By	GFAPL's Representative	Date of Sampling	18.10.2025
Instrument Used	Sound level meter		
Sampling Method	As Per IS:9989		

Sl. No.	Locations	Day Time	Night Time
		Results in Db(A)	
1	Near Village Jalahuri Lat- 21°57'4.98"N; & Long- 85°25'11.00"E	47.4	37.9
2	Near Village Bicchakund Lat- 21°58'50.16"N; & Long- 85°23'51.37"E;	47.2	37.9
3	Near Village Ganua Lat- 21°55'27.37"N; & Long- 85°20'58.26"E;	47.5	37.5
4	Near Village Khandbandh Lat- 21°55'46.60"N; & Long- 85°23'9.11"E;	48.1	38.6
Industrial Zone permissible limits as per CPCB Norms		Day Time – 75dB(A)	Night Time –70dB(A)

Reviewed By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Chief Analyst
Miss. Arti Sahoo

Note:

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Technical Manager
Mr. S.K. Parhi

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END OF REPORT

Report No-GFAPL/25-26/ SMK/106

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	SW1 - River Baitarani, Near Village Jalahuri; Lat-21°57'20.53"N & Long-85°26'31.28"E SW2 - Dalco nala Near Tata Pump House No.7; Lat- 21°55'36.84"N & Long- 85°26'58.23"E		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
1. 2	Colour	IS 3025: (Part 4)- 1983	Hazen	300	60	70
2. 4	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	8.0	11.0
3. 1	pH	APHA 24th ED 4500- H+B:2023	---	6.5-8.5	7.24	7.28
4. 3	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	176.0	179.3
5. 6	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	108.0	110.0
6. 5	Chloride(as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	16.0	18.0
7. 8	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02	<0.02
8. 8	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
9. 11	Iron(as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	50	0.25	0.27
10. 10	Sulfate(asSO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	3.4	3.8
11. 9	Fluoride(as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	<0.05	<0.05

Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
12	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	0.1	<2.0	<2.0
13	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.7	6.6
14	BOD (3)days at 27°C	IS 3025 (PART 44): 1993 REA-2009	mg/l	3.0	<2.0	<2.0
15	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	--	7.4	8.8

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
 Chief Analyst
 BHUBANESWAR, ODISHA
 Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
 Technical Manager
 BHUBANESWAR, ODISHA
 Mr. S.K. Parhi

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ASSOCIATES PRIVATE LIMITED

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Report No-GFAPL/25-26/ SMK/106

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	SW1 - River Baitarani, Near Village Jalahuri; Lat-21°57'20.53"N & Long-85°26'31.28"E SW2 - Dalco nala Near Tata Pump House No.7; Lat- 21°55'36.84"N & Long- 85°26'58.23"E		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
1.	Nitrate (as NO ₃)	APHA 24th ED 4500-NO ₃ -B: 2023	mg/l	50	1.22	1.36
2.	Phenolic Compounds as C ₆ H ₅ OH	APHA 24th ED 5530 B,D:2023	mg/l	--	<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	<0.02	<0.02
4.	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	<0.01	<0.01
5.	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	0.06	0.09
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	0.2	<0.001	<0.001
7.	Selenium (as Se)	APHA 3114 B	mg/l	0.05	<0.001	<0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	<0.001	<0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/100ml	5000	900	900

Reviewed By ANALYST

Authorized Signatory

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, ODISHA
Miss. Arti Sahoo

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, ODISHA
Mr. Swar, Odisha

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END OF REPORT

Report No-GFAPL/25-26/ SMK/107

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	SW3 - SunaNadi(Upstream of mine lease area); Lat- 21°57'21.91"N; Long- 85°22'8.76"E; SW4 - SunaNadi(Downstream of mine lease area); Lat-21°58'2.07"N; Long- 85°22'27.96"E;		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW3	SW4
1.	Colour	IS 3025: (Part 4)- 1983	Hazen	300	90	100
2.	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	14	15
3.	pH	APHA 24th ED 4500- H+B:2023	---	6.5-8.5	7.23	7.29
4.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	182.6	190.7
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	112.0	117.0
6.	Chloride(as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	15.0	20.0
7.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02	<0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
9.	Iron(as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	50	0.27	0.3
10.	Sulfate(asSO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	4.4	5.1
11.	Fluoride(as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	<0.05	<0.05

Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW3	SW4
12	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	0.1	<2.0	<2.0
13	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.5	6.4
14	BOD (3) days at 27°C	IS 3025 (PART 44): 1993 REA-2009	mg/l	3.0	<2.0	<2.0
15	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	--	10.0	12.0

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESHWAR, ODISHA
Chief Analyst
Miss Arpi Sahoo

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESHWAR, ODISHA
Technical Manager
Mr. Swarnendu

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Report No-GFAPL/25-26/ SMK/107

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	SW3 - SunaNadi(Upstream of mine lease area) Lat- 21°57'21.91"N; Long- 85°22'8.76"E; SW4 - SunaNadi(Downstream of mine lease area) Lat-21°58'2.07"N; Long- 85°22'27.96"E;		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW3	SW4
1.	Nitrate (as NO ₃)	APHA 24th ED 4500-NO ₃ -B: 2023	mg/l	50	1.28	1.48
2.	Phenolic Compounds as C ₆ H ₅ OH	APHA 24th ED 5530 B,D:2023	mg/l	--	<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	<0.02	<0.02
4.	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	<0.01	<0.01
5.	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	0.08	0.1
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	0.2	<0.001	<0.001
7.	Selenium (as Se)	APHA 3114 B	mg/l	0.05	<0.001	<0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	<0.001	<0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/100ml	5000	900	900

Reviewed By

Authorized Signatory

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESHWAR, ODISHA
Miss. Arti Sahoo

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESHWAR, ODISHA
Mr. S.K. Parhi

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END OF REPORT

--3 of 3--

Report No- GFAPL/25-26/ SMK/108

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Ground Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	GW1- Open well of Village Jajang; Lat- 21°55'59.08"N; & Long- 85°26'6.58"E; GW2- Open well of Village Jalahuri; Lat- 21°57'7.24"N; & Long- 85°25'16.12"E;		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
				AL	PL		
1.	Colour	IS 3025: (Part 4)- 1983	Hazen	5	15	<5.0	<5.0
2.	Turbidity	APHA 24th ED: 2130-B -2023	NTU	1	5	<1.0	<1.0
3.	pH Value @250C	APHA 24th ED 4500- H+B:2023	--	6.5-8.5	NR	7.19	7.22
4.	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	500	2000	185.0	197.0
5.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	27.0	28.0
6.	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	106.0	115.0
7.	Calcium	APHA 24th Ed 3500- Ca-B:2023	mg/l	75	200	26.90	30.10
8.	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	9.5	9.7

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
				AL	PL		
9.	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	101.0	110.0
10.	Residual Free Chlorine	APHA 24th ED 4500 CL-B:2023	mg/l	0.2	1.0	<0.2	<0.2
11.	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	0.05	NR	<0.02	<0.02
12.	Total Chromium	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	NR	<0.05	<0.05
13.	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.3	NR	0.18	0.2
14.	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	3.40	3.80
15.	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	<0.05	<0.05
16.	Boron	APHA 24th ED 4500 B-B:2023	mg/l	0.5	1.0	<0.01	<0.01
17.	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l	0.1	0.3	<0.05	<0.05
18.	Sodium as Na	APHA 24th ED 3500- Na-B	mg/l	--	--	16.2	16.7
19.	Potassium as K	APHA 24th ED 3500- K-B	mg/l	--	--	1.6	1.6

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

Miss. Arti Sahoo

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Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

Mr. S.K. Parhi

Report No- GFAPL/25-26/ SMK/108

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Ground Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	GW1- Open well of Village Jajang; Lat- 21°55'59.08"N; & Long- 85°26'6.58"E; GW2- Open well of Village Jalahuri; Lat- 21°57'7.24"N; & Long- 85°25'16.12"E;		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
				AL	PL		
1.	Odour	APHA 24th ED: 2150-B - 2023	---	Agreeable	Agreeable	U/O	U/O
2.	Taste	APHA 24th ED: 2160-B 24th ED	---	Agreeable	Agreeable	AL	AL
3.	Nitrate	APHA 24th ED 4500-NO3-E: 2023	mg/l	45	NR	1.06	1.14
4.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	<0.001	<0.001
5.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	<0.02	<0.02
6.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	<0.02	<0.02
7.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	<0.01	<0.01
8.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.01	NR	<0.001	<0.001
9.	Mercury (as Hg)	APHA 24th ED3500Hg: 2023	mg/l	0.001	NR	<0.001	<0.001

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Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
				AL	PL		
10.	Arsenic (as As)	APHA24th ED 3500As: 2023	mg/l	0.01	0.05	<0.001	<0.001
11.	Aluminum (as Al)	APHA24th ED 3500Al: 2023	mg/l	0.03	0.2	<0.01	<0.01
12.	Mineral Oil	APHA 24th ED5220B: 2023	mg/l	0.5	NR	ND	ND
13.	Anionic Detergents (as MBAS)	APHA24th ED 5540 C: 2023	mg/l	0.2	1.0	ND	ND
14.	Phenolic Compound (as C6H5OH)	APHA 24th ED 5530 B,D: 2023	mg/l	--	--	<0.001	<0.001
15.	Total Coliforms	APHA 24th ED 9222-H: 2023	100/MPN	--	--	<1.8	<1.8

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Technical Manager

BHUBANESHWAR, ODISHA

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Report No- GFAPL/25-26/ SMK/109

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Ground Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	GW3- Open well of Village Khandbandh; Lat- 21°55'25.97"N; & Long- 85°23'17.72"E; GW4- Open well near Jurudi; Lat- 21° 56' 59.26"N; & Long- 85° 25' 35.44"E		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
				AL	PL		
1	Colour	IS 3025: (Part 4)- 1983	Hazen	5	15	<5.0	<5.0
2	Turbidity	APHA 24th ED: 2130-B -2023	NTU	1	5	<1	<1
3	pH Value @25°C	APHA 24th ED 4500- H+B:2023	--	6.5-8.5	NR	7.18	7.16
4	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	500	2000	189.0	188.0
5	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	26.0	27.0
6	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	112.0	109.0
7	Calcium	APHA 24th Ed 3500- Ca-B:2023	mg/l	75	200	27.70	28.50
8	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	10.5	9.2

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
				AL	PL		
9	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	104.0	101.0
10	Residual Free Chlorine	APHA 24th ED 4500 CL-B:2023	mg/l	0.2	1.0	<0.2	<0.2
11	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	0.05	NR	<0.02	<0.02
12	Total Chromium	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.5	NR	<0.05	<0.05
13	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.3	NR	0.17	0.16
14	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	3.90	4.10
15	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	<0.05	<0.05
16	Boron	APHA 24th ED 4500 B-B:2023	mg/l	0.5	1.0	<0.01	<0.01
17	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l	0.1	0.3	<0.05	<0.05
18	Sodium as Na	APHA 24th ED 3500- Na-B	mg/l	--	--	15.5	16.3
19	Potassium as K	APHA 24th ED 3500- K-B	mg/l	--	--	1.5	1.5

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

Reviewed By
CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Chief Analyst
BHUBANESWAR, ODISHA
Miss. Arti Sahoo

Authorized Signatory
TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Technical Manager
BHUBANESWAR, ODISHA
Mr.S.K. Parhi

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Report No- GFAPL/25-26/ SMK/109

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Ground Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	GW3- Open well of Village Khandbandh; Lat- 21°55'25.97"N; & Long- 85°23'17.72"E GW4- Open well near Jurudi; Lat- 21° 56' 59.26"N; & Long- 85° 25' 35.44"E		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
				AL	PL		
1	Odour	APHA 24th ED: 2150-B - 2023	---	Agreeable	Agreeable	U/O	U/O
2	Taste	APHA 24th ED: 2160-B 24th ED	---	Agreeable	Agreeable	AL	AL
3	Nitrate	APHA 24th ED 4500-NO3-E: 2023	mg/l	0.2	1.0	1.28	1.11
4	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	<0.001	<0.001
5	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	<0.02	<0.02
6	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	<0.02	<0.02
7	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	<0.01	<0.01
8	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	NR-	<0.001	<0.001
9	Mercury (as Hg)	APHA 24th ED3500Hg: 2023	mg/l	0.001	NR	<0.001	<0.001

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Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
				AL	PL		
10	Arsenic (as As)	APHA24th ED 3500As: 2023	mg/l	0.01	0.05	<0.001	<0.001
11	Aluminum (as Al)	APHA24th ED 3500Al: 2023	mg/l	0.03	0.2	<0.01	<0.01
12	Mineral Oil	APHA 24th ED5220B: 2023	mg/l	0.5	NR	ND	ND
13	Anionic Detergents (as MBAS)	APHA24th ED 5540 C: 2023	mg/l	0.2	1.0	ND	ND
12	Phenolic Compound (as C ₆ H ₅ OH)	APHA 24th ED 5530 B,D: 2023	mg/l	--	--	<0.001	<0.001
14	Total Coliforms	APHA 24th ED 9222-H: 2023	100/MPN	0.2	NR	<1.8	<1.8

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

Reviewed By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Chief Analyst
Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Technical Manager
Mr. S.K. Parhi

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Report No- GFAPL/25-26/ SMK/110

Issued Date-04.11.2025


TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Surface Runn off		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	Surface Run Off near Khandbandh Mines		

Sl. No	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	Result
1.	Colour	IS 3025: (Part 4)- 1983	Hazen	300	60
2.	pH Value @250C	APHA 24th ED 4500- H+B:2023	---	6.0-9.0	7.24
3.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	213.2
4.	Total Dissolved Solids (TDS)	APHA 24th ED 2540-C: 2023	mg/l	1500	130.0
5.	Total Suspended Solid (TSS)	APHA 24th ED 2540-D: 2023	mg/l	--	106.0
6.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	26.00
7.	Cyanide	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05
9.	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.5	0.33
10.	Sulfate as SO4	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	7.2
11.	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	0.06
12.	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l	--	<0.05

Sl.No	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	Result
13.	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	--	<2.0
14.	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.5
15.	BOD (3)days at27°C	IS 3025 (PART 44): 1993 REA-2009	mg/l	3	<2.0
16.	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	--	10

Verified By


ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

Authorized By


TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Mr. S.K. Parhi

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Report No-GFAPL/25-26/ SMK/110

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Surface Run off		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	Surface Run Off near Khandbandh Mines		

Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	Result
1.	Nitrate (as NO ₃)	APHA 24th ED 4500-NO ₃ -B: 2023	mg/l	50	2.32
2.	Phenolic Compounds as C ₆ H ₅ OH	APHA 24th ED 5530 B,D:2023	mg/l	--	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	0.08
4.	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	<0.01
5.	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	0.16
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	0.2	<0.001
7.	Selenium (as Se)	APHA 3114 B	mg/l	0.05	<0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	<0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/100ml	5000	900

Verified By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Chief Analyst
BHUBANESWAR, ODISHA
Miss. Arti Sahoo

Authorized By

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Technical Manager
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END OF REPORT

--3 of 3--

Report No-GFAPL/25-26/ SMK/111

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Ground Water Level		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	20.10.2025		
Sampling Method	As Per CPCB Guidelines		

Sl. No.	Locations	Result
1	GWL1- Open well of Village Jajang; Lat- 21°55'59.08"N; & Long- 85°26'6.58"E;	3.6 m
2	GWL2- Open well of Village Jalahuri; Lat- 21°57'7.24"N; & Long- 85°25'16.12"E;	3.2 m
3	GWL3- Open well of Village Khandbandh; Lat- 21°55'25.97"N; & Long- 85°23'17.72"E;	3.9 m
4	GWL4- Open well near Jurudi; Lat- 21° 56' 59.26"N; & Long- 85° 25' 35.44"	4.2 m

Reviewed By

Authorized Signatory

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESHWAR, ODISHA
Miss. Arti Sahoo

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESHWAR, ODISHA
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END OF REPORT

Report No- GFAPL/25-26/ SMK/112

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Soil		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Soil and Rock
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	S1- Within Lease Area: Lat- 21° 57' 34.13"N, Long- 85° 22' 37.8192"E		
Sampling Method	As Per TNAU Agri Portal		

Sl. No.	Parameters	Testing Methods	Unit	Analysis Results
				S-1
1	pH	--	---	6.34
2	Organic Carbon	IS: 2720(Part-26)-1987	%	0.91
3	Moisture content	IS: 2720(Part-22)-1972	%	9.2
4	Specific Gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.7
5	Sulphate	IS: 2720(Part-2)-1973	mg/kg	64

Reviewed By

Authorized Signatory

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Miss. Arti Sahoo

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
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GREEN FORCE

ASSOCIATES PRIVATE LIMITED

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Report No- GFAPL/25-26/ SMK/112


Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034		
Nature of Sampling	Soil		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Soil and Rock
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025
Date of Analysis	22.10.2025	Date of Complete	27.10.2025
Sampling Location & Coordinates	S1- Within Lease Area: Lat- 21° 57' 34.13"N, Long- 85° 22' 37.8192"E		
Sampling Method	As Per TNAU Agri Portal		

Sl. No.	Parameters	Testing Methods	Unit	Analysis Results
				S-1
1.	Colour	GFAPL/SOP/Soil & Rock/01-23	---	Brown
2.	Electrical conductivity	IS:14767: 2000	µs/cm	204.2
3.	Soil Texture	GFAPL/SOP/Soil & Rock/02-23	---	Sandy loamy
4.	Bulk Density	GFAPL/SOP/Soil & Rock/03-23	gm/cc	1.35
5.	Calcium as Ca	IS: 2720(Part-23)	mg/kg	402
6.	Magnesium as Mg	GFAPL/SOP/Soil & Rock/04-23	mg/kg	194
7.	Nitrogen as N	IS:14684: 1999	kg/hect	50
8.	Phosphorus	GFAPL/SOP/Soil & Rock/05-23	kg/hect	20
9.	Potassium	GFAPL/SOP/Soil & Rock/06-23	mg/kg	156
10.	Chloride	GFAPL/SOP/Soil & Rock/07-23	mg/kg	124
11.	Manganese as Mn	GFAPL/SOP/Soil & Rock/08-23	mg/kg	7.56
12.	Iron	GFAPL/SOP/Soil & Rock/09-23	%	2.88

Reviewed By

CHIEF ANALYST
 GREENFORCE ASSOCIATES PRIVATE LIMITED
 BHUBANESWAR, ODISHA
 Mr. Arun Sahoo

Authorized Signatory

TECHNICAL MANAGER
 GREENFORCE ASSOCIATES PRIVATE LIMITED
 BHUBANESWAR, ODISHA
 Mr. S.K. Parhi

Note:

- The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied.
- Total liability of our lab is limited to the invoiced amount.
- Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT