

**ENVIRONMENT MONITORING REPORT**  
**FOR THE MONTH OF**  
**JULY - 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/047

Issued Date- 04.08.2025

### 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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	48.9	22.8	5.2	10.2
07.07.2025	47.2	22.4	4.8	9.8
10.07.2025	49.6	23.1	4.8	10.2
14.07.2025	46.5	22.5	4.8	9.8
17.07.2025	43.2	21.5	4.8	9.8
21.07.2025	42.4	20.8	4.6	9.6
24.07.2025	40.8	19.2	4.6	9.8
28.07.2025	43.5	21.7	4.8	10.0
31.07.2025	46.1	22.8	5.0	10.4
Max	49.60	23.10	5.20	10.40
Min	40.80	19.20	4.60	9.60
Avg	45.36	21.87	4.82	9.96
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  
BHUBANESWAR, ODISHA  
Miss. Arti Sahoo

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

Note:

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\*END OF REPORT\*

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Report No- GFAPL/25-26/SMK/048

Issued Date- 04.08.2025

### 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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	50.1	23.8	5.4	10.4
07.07.2025	49.2	23.2	5.0	10.0
10.07.2025	50.4	23.7	5.2	10.4
14.07.2025	46.1	22.6	4.8	10.0
17.07.2025	45.2	21.8	4.8	10.0
21.07.2025	44.1	21.5	4.6	9.8
24.07.2025	45.8	22.2	4.8	10.0
28.07.2025	47.2	23.1	5.2	10.4
31.07.2025	49.5	24.4	5.4	10.8
Max	50.40	24.40	5.40	10.80
Min	44.10	21.50	4.60	9.80
Avg	47.51	22.92	5.02	10.20
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  
Bhubaneswar, Odisha  
Miss. Arti Sahoo

Note:

Authorized Signatory

**TECHNICAL MANAGER**  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
Bhubaneswar, Odisha  
Miss. S.M. Parida

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--1--



Report No- GFAPL/25-26/SMK/049

Issued Date- 04.08.2025

### 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	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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	48.6	23.1	5	10
07.07.2025	46.8	22.4	4.8	9.8
10.07.2025	47.9	22.8	4.8	9.6
14.07.2025	43.5	21.2	<4.0	<9.0
17.07.2025	42.4	20.8	<4.0	<9.0
21.07.2025	41.6	20.1	<4.0	<9.0
24.07.2025	42.7	20.7	<4.0	<9.0
28.07.2025	44.6	21.2	4.8	9.8
31.07.2025	45.8	22.3	4.8	9.8
Max	48.60	23.10	5.00	10.00
Min	41.60	20.10	<4.0	<9.0
Avg	44.88	21.62	4.84	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)

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\*

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Report No- GFAPL/25-26/SMK/050

Issued Date- 04.08.2025

### 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	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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	49.8	24.2	5	10
07.07.2025	47.2	23.1	4.8	9.8
10.07.2025	48.4	23.5	4.8	9.6
14.07.2025	43.8	21.6	<4.0	<9.0
17.07.2025	42.4	20.4	<4.0	<9.0
21.07.2025	40.2	18.6	<4.0	<9.0
24.07.2025	41.8	18.9	<4.0	<9.0
28.07.2025	44.3	21.6	4.6	9.6
31.07.2025	46.7	22.8	4.8	9.8
Max	49.80	24.20	5.00	10.00
Min	40.20	18.60	<4.0	<9.0
Avg	44.96	21.63	4.80	9.76
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

Miss. Arti Sahoo

Note:

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED  
BHUBANESWAR, ODISHA

Technical Manager  
Mr. S.R. Panigrahi

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Report No- GFAPL/25-26/SMK/051

Issued Date- 04.08.2025

### 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	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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	35.2	16.1	<4.0	<9.0
07.07.2025	33.4	14.6	<4.0	<9.0
10.07.2025	32.8	14.3	<4.0	<9.0
14.07.2025	29.5	12.6	<4.0	<9.0
17.07.2025	28.3	12.1	<4.0	<9.0
21.07.2025	27.6	11.8	<4.0	<9.0
24.07.2025	29.2	12.8	<4.0	<9.0
28.07.2025	31.4	13.7	<4.0	<9.0
31.07.2025	32.7	14.6	<4.0	<9.0
Max	35.20	16.10	<4.0	<9.0
Min	27.60	11.80	<4.0	<9.0
Avg	31.12	13.62	<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)

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

Note:

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

Mr. S.K. Parhi

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Report No- GFAPL/25-26/SMK/052

Issued Date- 04.08.2025

### 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	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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	38.4	18.2	<4.0	<9.0
07.07.2025	36.2	16.8	<4.0	<9.0
10.07.2025	35.5	16.2	<4.0	<9.0
14.07.2025	31.5	13.8	<4.0	<9.0
17.07.2025	30.2	13.5	<4.0	<9.0
21.07.2025	28.6	13.1	<4.0	<9.0
24.07.2025	29.7	13.4	<4.0	<9.0
28.07.2025	32.1	14.6	<4.0	<9.0
31.07.2025	33.4	15.8	<4.0	<9.0
Max	38.40	18.20	<4.0	<9.0
Min	28.60	13.10	<4.0	<9.0
Avg	32.84	15.04	<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)

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst  
BHUBANESWAR, ODISHA

Miss. Arti Saroo

Note:

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED  
BHUBANESWAR, ODISHA

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\*END OF REPORT\*

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Report No- GFAPL/25-26/SMK/053

Issued Date- 04.08.2025

### 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	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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	35.4	16.4	<4.0	<9.0
07.07.2025	33.8	14.6	<4.0	<9.0
10.07.2025	33.2	14.2	<4.0	<9.0
14.07.2025	30.2	13.2	<4.0	<9.0
17.07.2025	29.6	12.9	<4.0	<9.0
21.07.2025	27.4	12.2	<4.0	<9.0
24.07.2025	28.2	12.5	<4.0	<9.0
28.07.2025	31.4	14.1	<4.0	<9.0
31.07.2025	32.8	14.5	<4.0	<9.0
Max	35.40	16.40	<4.0	<9.0
Min	27.40	12.20	<4.0	<9.0
Avg	31.33	13.84	<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)

Reviewed By

*Arti Sahoo*  
CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED  
BHUBANESWAR, ODISHA  
Miss. Arti Sahoo  
Note:

Authorized Signatory

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

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Report No- GFAPL/25-26/SMK/054

Issued Date- 04.08.2025

### 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	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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
03.07.2025	36.2	17.2	<4.0	<9.0
07.07.2025	34.3	15.4	<4.0	<9.0
10.07.2025	33.6	14.8	<4.0	<9.0
14.07.2025	29.2	12.5	<4.0	<9.0
17.07.2025	31.2	14.1	<4.0	<9.0
21.07.2025	28.6	12.4	<4.0	<9.0
24.07.2025	30.4	13.7	<4.0	<9.0
28.07.2025	32.8	15.1	<4.0	<9.0
31.07.2025	33.2	15.8	<4.0	<9.0
Max	36.20	17.20	<4.0	<9.0
Min	28.60	12.40	<4.0	<9.0
Avg	32.17	14.56	<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)

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

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\*END OF REPORT\*

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# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory

Report No- GFAPL/25-26/SMK/055

Issued Date- 04.08.2025

### 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 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
03.07.2025	0.29	0.30	0.28	0.28
07.07.2025	0.28	0.29	0.27	0.27
10.07.2025	0.29	0.30	0.26	0.26
14.07.2025	0.25	0.26	0.22	0.22
17.07.2025	0.25	0.26	0.21	0.20
21.07.2025	0.23	0.24	0.19	0.18
24.07.2025	0.24	0.25	0.19	0.19
28.07.2025	0.26	0.27	0.22	0.21
31.07.2025	0.27	0.29	0.23	0.23
Max	0.29	0.30	0.28	0.28
Min	0.23	0.24	0.19	0.18
Avg	0.26	0.27	0.23	0.23
NAAQ* Standard of CO	4			
Methods of Analysis	IS: 5182(Part- 10)			

Reviewed By

Authorized Signatory

CHIEF ANALYST  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
BHUBANESHWAR, ODISHA  
Vishal Kumar Sahoo

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

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\*END OF REPORT\*

-1--

# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory

Report No- GFAPL/25-26/SMK/056

Issued Date- 04.08.2025

### 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	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
03.07.2025	0.16	0.19	0.16	0.18
07.07.2025	0.14	0.17	0.15	0.16
10.07.2025	0.14	0.17	0.15	0.15
14.07.2025	0.13	0.15	0.13	0.13
17.07.2025	0.12	0.13	0.13	0.13
21.07.2025	0.11	0.12	0.12	0.12
24.07.2025	0.12	0.12	0.12	0.13
28.07.2025	0.13	0.13	0.13	0.14
31.07.2025	0.13	0.13	0.14	0.14
Max	0.16	0.19	0.16	0.18
Min	0.11	0.12	0.12	0.12
Avg	0.13	0.15	0.14	0.14
NAAQ* Standard of CO	4			
Methods of Analysis	IS: 5182(Part- 10)			

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst

Miss. Arti Sahoo

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\*END OF REPORT\*

-1--

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUVANESWAR, ODISHA



Report No- GFAPL/25-26/SMK/057

Issued Date- 04.08.2025

### 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	08.07.2025	342.5
		22.07.2025	272.5
2	Near Haul roads: Lat- 21° 57' 38.32"N, Long-85° 22' 33.52"E	08.07.2025	361.8
		22.07.2025	384.9
3	Near crushing point: Lat-21° 57' 38.37"N, Long-85° 22' 30.38"E	08.07.2025	296.8
		22.07.2025	245.3
4	Near screening plant: Lat-21° 57' 36.11"N, Long-85° 22' 30.43"E	08.07.2025	311.4
		22.07.2025	258.0
5	Near Ore storage and loading: Lat-21° 57' 41.49"N, Long- 85° 22' 31.43"E	08.07.2025	308.6
		22.07.2025	261.4
6	Near Waste dump: Lat-21° 57' 45.82"N, Long- 85° 22' 29.58"E	08.07.2025	351.2
		22.07.2025	339.8
Fugitive Standard			1200 - 2000
Methods of Analysis			IS:5182 (Part-4)

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Bhubaneswar, Odisha

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--1--

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Bhubaneswar, Odisha

Report No- GFAPL/25-26/SMK/058

Issued Date- 04.08.2025

### 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	17.07.20225
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;	60.3	49.1
2	Near Pillar No. F-1 Lat- 21°57'30.72"N; & Long- 85°22'33.11"E;	61.6	48.8
3	Near Workshop-, Pillar No. 8 Lat- 21°57'37.93"N; Long- 85°22'43.95"E;	62.9	49.5
4	Near Pillar No.C2 Lat- 21°57'37.93"N; Long- 85°22'43.95"E;	62.7	50.2
Industrial Zone permissible limits as per CPCB Norms		Day Time – 75dB(A)	Night Time –70dB(A)

Reviewed By

Authorized Signatory

  
**Chief Analyst**  
 GREENFORCE ASSOCIATES PRIVATE LIMITED  
 Miss. Arti Sahoo  
 Note:

  
**TECHNICAL MANAGER**  
 GREENFORCE ASSOCIATES PRIVATE LIMITED  
 Mr. S.K. Parhi

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\*END OF REPORT\*

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Report No- GFAPL/25-26/SMK/059

Issued Date- 04.08.2025

### 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	17.07.2025
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	48.5	38.6
2	Near Village Bicchakund Lat- 21°58'50.16"N; & Long- 85°23'51.37"E;	48.2	38.5
3	Near Village Ganua Lat- 21°55'27.37"N; & Long- 85°20'58.26"E;	48.4	38.6
4	Near Village Khandbandh Lat- 21°55'46.60"N; & Long- 85°23'9.11"E;	48.9	39.1
Industrial Zone permissible limits as per CPCB Norms		Day Time – 75Db(A)	Night Time –70Db(A)

Reviewed By

Authorized Signatory

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

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

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Report No-GFAPL/25-26/ SMK/060

Issued Date-04.08.2025

**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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	80	100
2. 4	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	16	22
3. 1	pH	APHA 24th ED 4500- H+B:2023	---	6.5-8.5	7.3	7.32
4. 3	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	185.8	187.5
5. 6	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	114.0	115.0
6. 5	Chloride(as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	18.0	20.0
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 <sup>th</sup> 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	0.27	0.29
10. 10	Sulfate(asSO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	3.9	4.2
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	6.6	6.5
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	--	8.0	10.0

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

Authorized Signatory

  
**ANALYST**  
 GREENFORCE ASSOCIATES PRIVATE LIMITED  
 Miss. Arti Sahu  
 BHUBANESWAR, ODISHA

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

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Report No-GFAPL/25-26/ SMK/060

Issued Date-04.08.2025

### 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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 NO3)	APHA 24th ED 4500-NO3-B: 2023	mg/l	50	1.38	1.56
2.	Phenolic Compounds as C6H5OH	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	0.06	0.08
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	0.1	0.12
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

*Arti Sahoo*  
ANALYST

Chief Analyst

Miss. Arti Sahoo

Authorized Signatory

*Mr. S.K. Parhi*  
TECHNICAL MANAGER

Technical Manager

Mr. S.K. Parhi

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Report No-GFAPL/25-26/ SMK/061

Issued Date-04.08.2025

### 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	110	120
2.	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	25	28
3.	pH	APHA 24th ED 4500- H+B:2023	---	6.5-8.5	7.28	7.34
4.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	190.7	202.1
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	117.0	124.0
6.	Chloride(as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	17.0	22.0
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 <sup>th</sup> 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	0.26	0.31
10.	Sulfate(asSO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	4.8	5.2
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	--	12.0	14.0

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

  
**CHIEF ANALYST**  
 GREENFORCE ASSOCIATES PRIVATE LIMITED  
 BHUBANESWAR, ODISHA

Authorized Signatory

  
**TECHNICAL MANAGER**  
 GREENFORCE ASSOCIATES PRIVATE LIMITED  
 BHUBANESWAR, ODISHA

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# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

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Report No-GFAPL/25-26/ SMK/061

Issued Date-04.08.2025

### 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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 <sub>3</sub> )	APHA 24th ED 4500-NO <sub>3</sub> -B: 2023	mg/l	50	1.44	1.62
2.	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> 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	0.08	0.09
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	0.11	0.15
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  
Chief Analyst  
Miss. Arti Sahoo  
BHUBANESWAR, ODISHA

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

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\*END OF REPORT\*

--3 of 3--

Report No- GFAPL/25-26/ SMK/062

Issued Date-04.08.2025

**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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	<1
3.	pH Value @250C	APHA 24th ED 4500-H+B:2023	--	6.5-8.5	NR	7.1	7.15
4.	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	500	2000	208.0	220.0
5.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	32.0	33.0
6.	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	115.0	124.0
7.	Calcium	APHA 24th Ed 3500- Ca-B:2023	mg/l	75	200	30.00	32.90
8.	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	9.7	10.2

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	106.0	114.0
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	0.2	0.21
14.	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	3.80	4.20
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	--	--	19.4	19.6
19.	Potassium as K	APHA 24th ED 3500- K-B	mg/l	--	--	1.8	1.8

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

Reviewed By



Chief Analyst  
Miss. Arti Sahoo

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--2 of 4--

Authorized Signatory

  
TECHNICAL MANAGER  
GREEN FORCE ASSOCIATES PRIVATE LIMITED  
Technical Manager  
Mr. S.K. Parhi

# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory

Report No- GFAPL/25-26/ SMK/062

Issued Date-04.08.2025

### 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	1.18	1.24
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



# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

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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 C <sub>6</sub> H <sub>5</sub> OH)	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  
BNUBAMESWAR@ODISHA

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED  
M.F.S.K. PARIJA

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Report No- GFAPL/25-26/ SMK/063

Issued Date-04.08.2025

**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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	7.12	7.08
4	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	500	2000	212.0	210.0
5	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	31.0	33.0
6	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	121.0	116.0
7	Calcium	APHA 24th Ed 3500- Ca-B:2023	mg/l	75	200	29.70	30.10
8	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	11.4	11.7

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	112.0	108.0
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	0.19	0.18
14	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	4.30	4.50
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	--	--	18.8	19.6
19	Potassium as K	APHA 24th ED 3500- K-B	mg/l	--	--	1.8	1.9

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  
BHUBANESWAR, ODISHA

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## ASSOCIATES PRIVATE LIMITED

An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory

Report No- GFAPL/25-26/ SMK/063

Issued Date-04.08.2025

### 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	1.42	1.26
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



# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

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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 <sub>6</sub> H <sub>5</sub> 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

Authorized Signatory

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

TECHNICAL MANAGER  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
Technical Manager  
BHUBANESWAR, ODISHA

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Report No- GFAPL/25-26/ SMK/064

Issued Date-04.08.2025

**TEST REPORT**

Client Name & Address	<i>M/s.SreeMetaliks Limited,</i> 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	80
2.	pH Value @250C	APHA 24th ED 4500- H+B:2023	---	6.0-9.0	7.36
3.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	226.3
4.	Total Dissolved Solids (TDS)	APHA 24th ED 2540-C: 2023	mg/l	1500	138.0
5.	Total Suspended Solid (TSS)	APHA 24th ED 2540-D: 2023	mg/l	--	128.0
6.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	30.00
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	0.38
10.	Sulfate as SO4	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	8.1
11.	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	0.12
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	6.4
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	--	12

Verified By

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

Authorized By

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

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# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

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Report No-GFAPL/25-26/ SMK/064

Issued Date-04.08.2025

### 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
Sampling Location & Coordinates	Surface Run Off near Khandbandh Mines		

SLNo.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	Result
1.	Nitrate (as NO <sub>3</sub> )	APHA 24th ED 4500-NO <sub>3</sub> -B: 2023	mg/l	50	2.5
2.	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA 24th ED 5530 B,D:2023	mg/l	--	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	0.11
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	0.2
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

Authorized By

CHIEF ANALYST  
GREENFORCE ASSOCIATES PRIVATE LIMITED

Miss. Arti Sahoo

TECHNICAL MANAGER  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
BHUBANESWAR, ODISHA

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Report No-GFAPL/25-26/ SMK/065

Issued Date-04.08.2025


### 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	21.07.2025		
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;	4.2m
2	GWL2- Open well of Village Jalahuri; Lat- 21°57'7.24"N; & Long- 85°25'16.12"E;	3.8m
3	GWL3- Open well of Village Khandbandh; Lat- 21°55'25.97"N; & Long- 85°23'17.72"E;	4.4m
4	GWL4- Open well near Jurudi; Lat- 21° 56' 59.26"N; & Long- 85° 25' 35.44"	4.7m

Reviewed By

Authorized Signatory

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

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

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Report No- GFAPL/25-26/ SMK/066

Issued Date-04.08.2025

## 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	--	---	6.28
2	Organic Carbon	IS: 2720(Part-26)-1987	%	0.96
3	Moisture content	IS: 2720(Part-22)-1972	%	8.4
4	Specific Gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.7
5	Sulphate	IS: 2720(Part-2)-1973	mg/kg	0.78

Reviewed By

Authorized Signatory

GREENFORCE ASSOCIATES PRIVATE LIMITED  
BHUBANESWAR, ODISHA  
Miss. Arti Sahoo

TECHNICAL MANAGER  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
BHUBANESWAR, ODISHA

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# GREEN FORCE

## ASSOCIATES PRIVATE LIMITED

An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory

Report No- GFAPL/25-26/ SMK/066

Issued Date-04.08.2025

### 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	21.07.2025	Date of Receiving	22.07.2025
Date of Analysis	23.07.2025	Date of Complete	28.07.2025
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	208.6
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	416
6.	Magnesium as Mg	GFAPL/SOP/Soil & Rock/04-23	mg/kg	202
7.	Nitrogen as N	IS:14684: 1999	kg/hect	48
8.	Phosphorus	GFAPL/SOP/Soil & Rock/05-23	kg/hect	22
9.	Potassium	GFAPL/SOP/Soil & Rock/06-23	mg/kg	160
10.	Chloride	GFAPL/SOP/Soil & Rock/07-23	mg/kg	120
11.	Manganese as Mn	GFAPL/SOP/Soil & Rock/08-23	mg/kg	7.4
12.	Iron	GFAPL/SOP/Soil & Rock/09-23	%	2.98

Reviewed By:

Authorized Signatory

**CHIEF ANALYST**  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
Bhubaneswar, Odisha

**TECHNICAL MANAGER**  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
Bhubaneswar, Odisha

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\***