

ENVIRONMENT MONITORING REPORT
FOR THE MONTH OF
NOVEMBER - 2024



Client- M/s SREE METALIKS LTD.

Address- Loidapada, Barbil,

Dist- Keonjhar, Odisha



Monitored By - Green Force Associates Pvt. Ltd.

Address- Plot No-1666, Phase-II, Delta Colony,

Nilakantheswar Marg, Baramunda.

Bhubaneswar-751003

NABL Certificate No:- TC-12258

PHOTOGRAPHS OF ENVIRONMENT MONITORING





GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000230F

Report No- GFAPL/24-25/SMR/109

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha..		
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 Admin Office:21°59'26.41"N Latitude & 85°19'39.29"E Longitude		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS: 5182		

Date of Sampling	Lab Id Code	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
04.11.2024	GF/24-25/A560	60.7	29.0	8.8	13.4
07.11.2024	GF/24-25/A568	63.4	30.5	9.4	13.8
11.11.2024	GF/24-25/A576	66.4	32.8	10.1	14.8
14.11.2024	GF/24-25/A584	65.1	32.2	9.9	14.2
18.11.2024	GF/24-25/A592	67.8	33.3	10.4	14.8
21.11.2024	GF/24-25/A604	70.4	35.0	10.8	15.2
25.11.2024	GF/24-25/A616	69.4	35.0	10.8	15.8
28.11.2024	GF/24-25/A624	72.6	35.9	11.4	16.2
Max		72.6	35.9	11.4	16.2
Min		60.7	29.0	8.8	13.4
Avg		66.9	32.9	10.2	14.7
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
BHUBANESWAR, ODISHA

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END OF REPORT

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Authorized Signatory

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



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com



ULR No- TC122582400000231F

Report No- GFAPL/24-25/SMR/110

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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 Dispensary: 21°59'33.80"N Latitude & 85°19'24.18"E Longitude		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS: 5182		

Date of Sampling	Lab Id Code	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
04.11.2024	GF/24-25/A561	47.5	23.0	4.6	9.6
07.11.2024	GF/24-25/A569	49.2	23.5	5.3	10.4
11.11.2024	GF/24-25/A577	49.8	23.3	5.6	10.4
14.11.2024	GF/24-25/A585	50.4	24.4	5.8	10.8
18.11.2024	GF/24-25/A593	51.6	25.0	6.3	11.2
21.11.2024	GF/24-25/A605	53.4	25.9	6.4	11.4
25.11.2024	GF/24-25/A617	51.6	25.0	5.8	11.2
28.11.2024	GF/24-25/A625	50.8	25.0	5.8	11.4
Max		53.4	25.9	6.4	11.4
Min		47.5	23.0	4.6	9.6
Avg		50.5	24.3	5.7	10.8
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

Authorized Signatory

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

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

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000232F

Report No- GFAPL/24-25/SMR/111

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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- Village Rugudihi: 21°59'50.80"N Latitude & 85°19'20.16"E Longitude		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS: 5182		

Date of Sampling	Lab Id Code	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
04.11.2024	GF/24-25/A562	46.2	22.0	<4.0	<9.0
07.11.2024	GF/24-25/A570	48.4	23.0	4.4	9.6
11.11.2024	GF/24-25/A578	49.4	23.9	4.9	9.8
14.11.2024	GF/24-25/A586	50.6	24.4	5.1	10.3
18.11.2024	GF/24-25/A594	48.6	23.9	4.9	9.6
21.11.2024	GF/24-25/A606	49.2	24.1	5.2	10.4
25.11.2024	GF/24-25/A618	47.4	23.2	4.5	9.6
28.11.2024	GF/24-25/A626	49.6	24.5	4.9	10.2
Max		50.6	24.5	5.2	10.4
Min		46.2	22.0	<4.0	<9.0
Avg		48.6	23.6	4.8	9.9
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

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--I--

Authorized Signatory

Technical Manager

GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000233F

Report No- GFAPL/24-25/SMR/112

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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 - Village Lohidapada:21°59'35.97"N Latitude & 85°19'08.86"E Longitude		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS: 5182		

Date of Sampling	Lab Id Code	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
04.11.2024	GF/24-25/A563	46.8	22.5	<4.0	<9.0
07.11.2024	GF/24-25/A571	49.6	23.5	4.6	9.8
11.11.2024	GF/24-25/A579	48.8	23.3	4.9	9.8
14.11.2024	GF/24-25/A587	50.8	24.4	5.1	10.3
18.11.2024	GF/24-25/A595	49.4	24.4	4.9	9.8
21.11.2024	GF/24-25/A607	48.2	23.6	4.8	10.2
25.11.2024	GF/24-25/A619	50.6	24.5	5.5	10.6
28.11.2024	GF/24-25/A627	51.5	25.0	5.6	10.8
Max		51.5	25.0	5.6	10.8
Min		46.8	22.5	<4.0	<9.0
Avg		49.4	23.9	5.0	10.1
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 Arun Sahoo

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Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Technical Manager

Mr. S.K. Baran



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/24-25/SMR/113

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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 Admin Office:21°59'26.41"N Latitude & 85°19'39.29"E Longitude AAQ2 - Near Dispensary:21°59'33.80"N Latitude & 85°19'24.18"E Longitude AAQ3 - Village Rugudihi:21°59'50.80"N Latitude & 85°19'20.16"E Longitude AAQ4 - Village Lohidapada:21°59'35.97"N Latitude & 85°19'08.86"E Longitude		
Instrument Used	CO Analyser		
Sampling Method	As Per IS: 5182		

Date of Sampling	CO (mg/m ³)			
	AAQ1	AAQ2	AAQ3	AAQ4
04.11.2024	0.33	0.23	0.19	0.19
07.11.2024	0.34	0.24	0.21	0.22
11.11.2024	0.35	0.25	0.22	0.22
14.11.2024	0.34	0.26	0.23	0.24
18.11.2024	0.35	0.27	0.23	0.24
21.11.2024	0.37	0.27	0.25	0.25
25.11.2024	0.39	0.26	0.24	0.26
28.11.2024	0.40	0.27	0.25	0.26
Max	0.40	0.27	0.25	0.26
Min	0.33	0.23	0.19	0.19
Avg	0.35	0.25	0.22	0.23
NAAQ* Standard	4			
Methods of Analysis	IS: 5182 (Part- 10)			

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst

Miss. Arpita Sahoo

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Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Technical Manager

Mr. S.K. Parhi



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000234F

Report No- GFAPL/24-25/SMR/114

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Ambient Air 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
Instrument Used	Respirable Dust Sampler, Gaseous Attachment		
Sampling Method	As Per IS: 5182		

Location Code	Lab Id Code	Sampling Location	Date of Sampling	O3 ($\mu\text{g}/\text{m}^3$)	NH3 ($\mu\text{g}/\text{m}^3$)
AAQ1	GF/24-25/A604	Near Admin Office	21.11.2024	<8.0	<20.0
AAQ2	GF/24-25/A605	Near Dispensary	21.11.2024	<8.0	<20.0
AAQ3	GF/24-25/A606	Village Rugudi	21.11.2024	<8.0	<20.0
AAQ4	GF/24-25/A607	Village Lohidapada	21.11.2024	<8.0	<20.0
NAAQ* Standard				100	400
Methods of Analysis				IS:5182 (Part-9)	IS:5182 (Part-25)

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
Mr. S.K. Parhi

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



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Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/24-25/SMR/115

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha..		
Nature of Sampling	Workzone Air Monitoring		
Sampling By	GFAPL's Representative	Date of Sampling	21.11.2024
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Instrument Used	Respirable Dust Sampler.		
Sampling Method	As Per IS: 5182		

Name of Location	Location	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	C ₆ H ₆ ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
AAQ1	Near Admin Office	<0.06	<0.6	<0.44	<5	<1
AAQ2	Near Dispensary	<0.06	<0.6	<0.44	<5	<1
AAQ3	Village Rugudi	<0.06	<0.6	<0.44	<5	<1
AAQ4	Village Lohidapada	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard		1	20	6	5	1
Methods of Analysis		IS:5182 (Part-22)	IS:5182 (Part-26)	As per CPCB method followed by AAS	IS:5182 (Part-11)	IS:5182 (Part-12)

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Miss. Arati Sahoo

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Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Technical Manager

Mr. S.K. Parui



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000235F

Report No- GFAPL/24-25/SMR/116

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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		
Instrument Used	Sound Level Meter		
Sampling Method	As Per IS:9989		

Sl.No.	Locations	Date of Sampling	Day Time	Night Time
			Results in dB(A)	
1	Near Admin Office; Latitude: 21°59'26.41"N& Longitude: 85°19'39.29"E	22.11.2024	61.2	48.8
2	Near Dispensary; Latitude: 21°59'33.80"N& Longitude: 85°19'24.18"E	22.11.2024	48.9	37.7
Industrial Zone permissible limits as per CPCB Norms			75 dB(A)	70 dB(A)
3	Village Rugudi; Latitude: 21°59'50.80"N& Longitude: 85°19'20.16"E	23.11.2024	47.8	36.9
4	Village Lohidapada; Latitude: 21°59'35.97"N& Longitude: 85°19'08.86"E	23.11.2024	48.1	37.1
Residential Zone permissible limits as per CPCB Norms			55 dB(A)	45 dB(A)

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Chief Analyst
Miss. Anil Sahoo

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TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Technical Manager
Mr. S.K. Parhi



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com

ULR No- TC1225824000000236F

Report No- GFAPL/24-25/SMR/117

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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		
Instrument Used	Sound Level Meter		
Sampling Method	As Per IS:9989		

Sl.No	Locations	Date Of Sampling	Day Time	Night Time
			Results in dB(A)	
1	Near Main Gate; Latitude: 21°59'36.61"N & Longitude: 85°19'27.95"E	25.11.2024	66.3	59.1
2	Near Crushing Plant; Latitude: 21°59'27.80"N & Longitude: 85°19'38.89"E	25.11.2024	68.7	60.4
3	Near Power Plant; Latitude: 21°59'27.87"N & Longitude: 85°19'30.78"E	26.11.2024	66.9	59.5
4	Near SMS - 1; Latitude: 21°59'23.62"N & Longitude: 85°19'37.62"E	26.11.2024	68.2	60.6
5	Near SMS -2; Latitude: 21°59'36.28"N & Longitude: 85°19'34.16"E	27.11.2024	68.6	61.0
6	Near Blast Furnace; Latitude: 21°59'23.15"N & Longitude: 85°19'32.77"E	27.11.2024	69.7	62.1
7	Near Rolling Mill-1; Latitude: 21°59'23.96"N & Longitude: 85°19'39.63"E	28.11.2024	69.9	63.6
8	Near Rolling Mill-2; Latitude: 21°59'39.20"N & Longitude: 85°19'36.15"E	28.11.2024	70.2	64.3
Industrial Zone permissible limits as per CPCB Norms			Day Time- 75 dB(A)	Night Time- 70 dB(A)

Reviewed By

Authorized Signatory

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

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

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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com

ULR No- TC122582400000237F

Report No- GFAPL/24-25/SMR/118

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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		
Sampling Method	As Per IS:5182		

Sl. No.	Name of Location	Lab Id Code	Latitude	Longitude	Date of Sampling	Result
1	Near Main Gate	GF/24-25/A596	21°59'36.61"N	85°19'27.95"E	19.11.2024	554.2
2	Near Crushing Plant	GF/24-25/A597	21°59'27.80"N	85°19'38.89"E	19.11.2024	494.6
3	Near Power Plant	GF/24-25/A598	21°59'27.87"N	85°19'30.78"E	19.11.2024	512.4
4	Near SMS-1	GF/24-25/A599	21°59'23.62"N	85°19'37.62"E	19.11.2024	478.6
5	Near SMS-2	GF/24-25/A608	21°59'36.28"N	85°19'34.16"E	22.11.2024	572.5
6	Near Blast Furnace	GF/24-25/A609	21°59'23.15"N	85°19'32.77"E	22.11.2024	542.5
7	Near Rolling Mill-1	GF/24-25/A610	21°59'23.96"N	85°19'39.63"E	22.11.2024	592.4
8	Near Rolling Mill-2	GF/24-25/A611	21°59'39.20"N	85°19'36.15"E	22.11.2024	534.2
Fugitive Standard						1200
Methods of Analysis					IS:5182(Part-24)	

Reviewed By

Authorized Signatory

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

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

Note:

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000238F

Report No- GFAPL/24-25/SMR/119

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Stack Monitoring		
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		
Date of Sampling	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	27.11.2024
Sampling Location & Coordinates	ST-1: Stack Attached to DRI 1&2; Lat: 20°59'28.66"N & Long: 85°19'35.76"E ST-2: Stack Attached to DRI 3&4; Lat: 20°59'26.74"N & Long: 85°19'38.33"E		
Instrument Used	Stack monitoring Kit; Vacuum Pump; Pyrometer	Lab Id Code	ST1-GF/2023-24/St46 ST2- GF/2023-24/St47
Sampling Method	As Per IS:11255		

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST1	ST2
01	Temperature in K	IS-11255 (PART-3) 1985	---	397	394
02	Velocity in m/sec	IS-11255 (PART-3) 1985	---	11.98	14.7
03	Flow Rate in (mg/Nm ³)	IS-11255 (PART-3) 1985	---	44224.2	52733.5
05	Particulate Matter (PM) in mg/Nm ³	IS-11255(PART-1) 1985 Gravimetric Method	100	30.8	36.7
06	SO ₂ (mg/Nm ³)	IS-11255(PART-2) 1985	600	33.3	82.7
07	CO in %	IS-13270:1992	1%	<0.2	<0.2
08	CO ₂ in %	IS-13270:1992	---	1.6	1.5

Reviewed By

Chief Analyst

Miss. Arti Sahoo

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Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESHWAR, ODISHA

Mr. S.K. Parhi



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000239F

Report No- GFAPL/24-25/SMR/120

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Stack Monitoring		
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		
Date of Sampling	28.11.2024	Date of Receiving	29.11.2024
Date of Analysis	29.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	ST-3: Stack Attached to DRI 5&6; Lat: 20°59'26.95"N & Long: 85°19'38.80"E ST-4: Stack Attached to ABC Boiler; Lat: 20°59'27.67"N & Long: 85°19'31.06"E		
Instrument Used	Stack monitoring Kit; Vacuum Pump; Pyrometer	Lab Id Code	ST1-GF/2023-24/St48 ST2-GF/2023-24/St49
Sampling Method	As Per IS:11255		

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST3	ST4
01	Temperature in K	IS-11255 (PART-3) 1985	---	394	399
02	Velocity in m/sec	IS-11255 (PART-3) 1985	---	14.23	14.47
03	Flow Rate in (mg/Nm ³)	IS-11255 (PART-3) 1985	---	21435.0	83670.7
04	PM (mg/Nm ³)	IS-11255(PART-1) 1985 Gravimetric Method	100	37.2	26.4
05	SO ₂ (mg/Nm ³)	IS-11255(PART-2) 1985	600	80.6	22.4
06	CO in %	IS-13270:1992	1%	<0.2	<0.2
07	CO ₂ in %	IS-13270:1992	---	1.5	1.4

Reviewed By

Chief Analyst
Miss Arun Sahoo

GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

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Authorized Signatory

Technical Manager
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

Mr. S.K. Parhi



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com

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Report No- GFAPL/24-25/SMR/121

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Stack Monitoring		
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		
Date of Sampling	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	27.11.2024
Sampling Location & Coordinates	ST-1: Stack Attached to DRI 1&2; Lat: 20°59'28.66"N & Long: 85°19'35.76"E ST-2: Stack Attached to DRI 3&4; Lat: 20°59'26.74"N & Long: 85°19'38.33"E		
Instrument Used	Stack monitoring Kit; Vacuum Pump; Pyrometer		
Sampling Method	As Per IS:11255		

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST1	ST2
01	Pbar in mm Hg	--	---	690	690
02	NOx (mg/Nm ³)	IS-11255(PART-2) 1985	300	60.4	75.6

Reviewed By

Authorized Signatory

CHIEF ANALYST
GREEN FORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Miss. Anu Sahoo

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

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



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Report No- GFAPL/24-25/SMR/122

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Stack Monitoring		
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		
Date of Sampling	28.11.2024	Date of Receiving	29.11.2024
Date of Analysis	29.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	ST-3: Stack Attached to DRI 5&6; Lat: 20°59'26.95"N & Long: 85°19'38.80"E ST-4: Stack Attached to ABC Boiler; Lat: 20°59'27.67"N & Long: 85°19'31.06"E		
Instrument Used	Stack monitoring Kit; Vacuum Pump; Pyrometer		
Sampling Method	As Per IS:11255		

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST3	ST4
01	Pbar in mm Hg	--	---	690	690
02	NOx (mg/Nm ³)	IS-11255(PART-2) 1985	300	52.8	68.6

Reviewed By

CHIEF ANALYST

Chief Analyst

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

Technical Manager

Mr. S.K. Parhi

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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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✉ Mail Id: greenforceassociates@gmail.com



ULR No- TC1225824000000240F
Report No- GFAPL/24-25/SMR/123

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Surface Water Quality		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	SW- Karo River; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E	Lab Id Code	SW-GF/24-25/W123
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW
01	Colour	IS 3025: (Part 4)- 1983	Hazen	300	120
02	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	20.0
03	pH Value @250C	APHA 24th ED 4500-H+B:2023	--	6.5-8.5	7.14
04	Conductivity	APHA 24th ED 2510-B: 2023	ms/cm	--	187.0
05	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	1500	114
06	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	18.0
07	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/	0.05	<0.02
08	Hexavalent Chromium (as Cr+6)	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05
09	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	50	0.31
10	Sulfate(as SO4)	APHA 24th ED 4500- SO4 D: 2023	mg/l	400	4.8



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Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW
11	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	<0.05
12	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	0.1	<2.0
13	Dissolved Oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.4
14	Biological Oxygen Demand	IS 3025 (PART 44) : 1993 REA-2009	mg/l	3.0	<2.0
15	Chemical Oxygen Demand	APHA 24th ED 5220 C:2023	mg/l	--	14.0

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

Arti Sahoo

Chief Analyst

GREENFORCE ASSOCIATES PRIVATE LIMITED
Miss. Arti Sahoo
BHUBANESWAR, ODISHA

Authorized Signatory

S.K. Parhi

Technical Manager

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

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Baramunda, Bhubaneswar, Dist - Khurda



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

Report No- GFAPL/24-25/SMR/123

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Surface Water Quality		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	SW- Karo River; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296Class-C	SW
01	Nitrate as (NO ₃)	APHA 24th ED 4500-NO3-E: 2023	mg/l	50	1.68
02	Phenolic Compound (as C ₆ H ₅ OH)	APHA 24th ED 5530 B,D: 2023	mg/l	--	<0.001
03	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	0.07
04	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.1	<0.01
05	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	15	0.11
06	Arsenic (as As)	APHA 24th ED 3500As: 2023	mg/l	0.2	<0.001
07	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.05	<0.001
08	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	<0.001
09	Total Coliforms	APHA 24th ED 9222-H: 2023	MPN/100ml	5000	900

Reviewed By

Chief Analyst

GREENFORCE ASSOCIATES PRIVATE LIMITED

Miss. Arti Sahoo

BHUBANESWAR, ODISHA

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END OF REPORT

3 of 3

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Mr. Sak. Parhi

BHUBANESWAR, ODISHA



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com



ULR No- TC122582400000241F

Report No- GFAPL/24-25/SMR/124

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Ground Water Quality		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	GW1-Inside Colony; Latitude: 21°59'34.27"N & Longitude: 85°19'26.87"E GW2-Village Rugudihi; Latitude: 21°59'50.80"N & Longitude: 85°19'20.16"E GW3-Village Lohidapada; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E	Lab Id Code	GW1-GF/24-25/W124 GW2-GF/24-25/W125 GW2-GF/24-25/W126
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW3
				Acceptable Limit	Permissible Limit			
01	Colour	IS 3025: (Part 4)- 1983	Hazen	5	15	<5.0	<5.0	<5.0
02	Turbidity	APHA 24th ED: 2130-B-2023	NTU	1	5	<1	<1	<1
03	pH Value @250C	APHA 24th ED 4500-H+B:2023	--	6.5-8.5	NR	7.13	7.18	7.12
04	Total Dissolved Solids(TDS)	APHA 24th ED: 2540-C: 2023	mg/l	500	2000	170.0	198.0	175.0
05	Chloride (as Cl)	APHA 24th Ed 4500-Cl-B:2023	mg/l	250	1000	18.0	21.0	20.0
06	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	108.0	116.0	105.0
07	Calcium	APHA 24th Ed 3500-Ca-B:2023	mg/l	75	200	26.9	28.9	26.5
08	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	10.0	10.7	9.5

REMARKS: NR- Not Relaxable;



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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com



Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW3
				Acceptable Limit	Permissible Limit			
09	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	101.0	109.0	99.0
10	Residual Free Chlorine	APHA 24th ED 4500 CL-B: 2023	mg/l	0.2	1.0	<0.2	<0.2	<0.2
11	Cyanide	APHA 24th ED 4500 CN-F: 2023	mg/l	0.05	NR	<0.02	<0.02	<0.02
12	Total Chromium	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	NR	<0.05	<0.05	<0.05
13	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.3	NR	0.15	0.18	0.17
14	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	2.5	2.6	2.8
15	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	<0.05	<0.05	<0.05
16	Boron	APHA 24th ED 4500 B-B: 2023	mg/l	0.5	1.0	<0.01	<0.01	<0.01
17	Manganese	IS 3025 PART-59:2006 RA 2012	mg/l	0.1	0.3	<0.05	<0.05	<0.05
18	Sodium as Na(max)	APHA 24th ED 3500- Na-B	mg/l	--	--	11.2	13.3	12.6
19	Potassium as K(max)	APHA 24th ED 3500- K-B	mg/l	--	--	1.1	1.3	1.2

REMARKS: NR- Not Relaxable;

Reviewed By

Authorized Signatory

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

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

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/24-25/SMR/124

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Ground Water Quality		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	GW1-Inside Colony; Latitude: 21°59'34.27"N & Longitude: 85°19'26.87"E GW2-Village Rugudihi; Latitude: 21°59'50.80"N & Longitude: 85°19'20.16"E GW3-Village Lohidapada; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW3
				Acceptable Limit	Permissible Limit			
01	Odour	APHA 24th ED: 2150-B - 2023	---	Agreeable	Agreeable	U/O	U/O	U/O
02	Taste	APHA 24th ED: 2160-B - 2023	---	Agreeable	Agreeable	AL	AL	AL
03	Nitrate	APHA 24th ED 4500-NO3-E: 2023	mg/l	45	NR	1.48	1.5	1.62
04	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	<0.001	<0.001	<0.001
05	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	<0.02	<0.02	<0.02
06	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	<0.02	<0.02	<0.02
07	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	<0.01	<0.01	<0.01
08	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	NR	<0.001	<0.001	<0.001
09	Mercury (as Hg)	APHA 24th ED 3500 Hg: 2023	mg/l	0.001	NR	<0.001	<0.001	<0.001

REMARKS: NR- Not Relaxable, U/O- Unobjectionable, AL- Acceptable



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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW3
				Acceptable Limit	Permissible Limit			
10	Arsenic (as As)	APHA 24th ED 3500As: 2023	mg/l	0.01	0.05	<0.001	<0.001	<0.001
11	Aluminum (as Al)	APHA 24th ED 3500Al : 2023	mg/l	0.03	0.2	<0.01	<0.01	<0.01
12	Mineral Oil	APHA 24th ED 5220 B: 2023	mg/l	0.5	NR	ND	ND	ND
13	Anionic Detergents (as MBAS)	APHA 24th ED 5540 C : 2023	mg/l	0.2	1.0	ND	ND	ND
14	Phenolic Compound (as C ₆ H ₅ OH)	APHA 24th ED 5530 B,D: 2023	mg/l	--	--	<0.001	<0.001	<0.001
15	Total Coliforms	APHA 24th ED 9222-H: 2023	MPN/100 ml	0.2	NR	<1.8	<1.8	<1.8

REMARKS: NR- Not Relaxable, ND-Not Detectable

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Chief Analyst
Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

Technical Manager
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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Baramunda, Bhubaneswar, Dist - Khurdha



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ULR No- TC1225824000000242F

Report No- GFAPL/24-25/SMR/125

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Effluent Treatment Plant		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	ETP1- ETP INLET; Latitude: 21°59'28.24"N & Longitude: 85°19'24.21"E. ETP2- ETP OUTLET; Latitude: 21°59'30.19"N & Longitude: 85°19'27.13"E.	Lab Id Code	ETP1- GF/24-25/W127 ETP2- GF/24-25/W128
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as Per E(p) Act, 1986 Schedule-VI(b)	ETP1	ETP2
01	pH Value @250C	APHA 24th ED 4500 H+B:2023	--	5.5-9.0	7.2	7.06
02	Conductivity	APHA 24th ED 2510-B: 2023	ms/cm	--	258.2	220.9
03	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	--	156.0	134.0
04	Total Suspended Solids(TSS)	APHA 24th ED 2540-D: 2023	mg/l	600	184	14
05	Hexavalent Chromium (as Cr+6)	APHA 24th ED 3500-Cr-B: 2023	mg/l	2.0	<0.05	<0.05
06	Total Chromium (as	APHA 24th ED 3500-Cr-B: 2023	mg/l	2.0	0.34	<0.05
07	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	3	1.26	0.42
08	Sulfate(as SO4)	APHA 24th ED 4500- SO4 D: 2023	mg/l	--	20.8	6.6



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Sl. No.	Parameter	Testing Methods	Unit	Standard as Per E(p) Act, 1986 Schedule-VI(b)	ETP1	ETP2
09	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	15	0.36	0.07
10	Phosphate (as PO ₄)	APHA 24th ED 4500-P-D: 2023	mg/l	--	1.12	<0.05
11	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	20	4.8	<1.0
12	Chemical Oxygen Demand (as COD)	APHA 24th ED 5220 C:2023	mg/l	--	260.0	10.0
13	Ammonical Nitrogen	APHA 24th ED 4500-NH ₃ -C:2023	mg/l	50	3.5	<0.7

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. SK Barik
BHUBANESWAR, ODISHA

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Report No- GFAPL/24-25/SMR/125

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Effluent Treatment Plant		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	ETP1- ETP INLET; Latitude: 21°59'28.24"N & Longitude: 85°19'24.21"E. ETP2- ETP OUTLET; Latitude: 21°59'30.19"N & Longitude: 85°19'27.13"E.		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl.No.	Parameter	Testing Methods	Unit	Standard as Per E(p) Act, 1986 Schedule-VI(b)	ETP1	ETP2
01	Nitrate as (NO ₃)	APHA 24th ED 4500-NO3-E: 2023	mg/l	--	9.1	1.4
02	Total Kjheldhal Nitrogen	APHA 24th ED 4500-Norg B; NH3-B, C:2023	mg/l	--	6.4	1.4

Reviewed By

Authorized Signatory

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Miss. A.R.G. Sahoo
BHUBANESWAR, ODISHA

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

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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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ULR No- TC122582400000243F

Report No- GFAPL/24-25/SMR/126

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Sewage Treatment Plant		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	STP1-Inside Colony; Latitude: 21°59'36.83"N & Longitude: 85°19'28.00"E STP2-Near Canteen; Latitude: 21°59'28.99"N & Longitude: 85°19'32.99"E STP3-SRTP Outlet; Latitude: 21°59'35.97"N & Longitude: 85°19'28.58"EE	Lab Id Code	STP1- GF/24-25/W129 STP2- GF/24-25/W130 STP3- GF/24-25/W131
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per- MoEFCC 13 th October 2017	STP1	STP2	STP3
01	pH Value @250C	APHA 24th ED 4500 H+B:2023	--	6.5-9.0	7.02	7.14	7.06
02	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	--	122	128	132
03	Total Suspended Solids(TSS)	APHA 24th ED 2540-D: 2023	mg/l	<50	12	18	16
04	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	--	<1.0	<1.0	<1.0
05	Biological Oxygen Demand	IS 3025 (PART 44) : 1993 REA-2009	mg/l	20	<2.0	<2.0	<2.0
06	Chemical Oxygen Demand	APHA 24th ED 5220 C:2023	mg/l	--	8	10	12

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Miss. Arti Saloo
Note:

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Mr. S.K. Parhi

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Report No- GFAPL/24-25/SMR/126

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
Nature of Sampling	Sewage Treatment Plant		
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	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	STP1-Inside Colony; Latitude: 21°59'36.83"N & Longitude: 85°19'28.00"E STP2-Near Canteen; Latitude: 21°59'28.99"N & Longitude: 85°19'32.99"E STP3-SRTP Outlet; Latitude: 21°59'35.97"N & Longitude: 85°19'28.58"EE.		
Sampling Method	As Per APHA 24th ED: 1060B:2023		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per- MoEFCC 13 th October 2017	STP1	STP2	STP3
01	Total Kjeldhal Nitrogen	APHA 24th ED 4500-Norg B; NH ₃ -B, C:2023	mg/l	--	1.4	1.4	1.4

Reviewed By

Authorized Signatory

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

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Technical Manager
Mr. S.K. Parni

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



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Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com

ULR No- TC1225824000000244F

Report No- GFAPL/24-25/SMR/127

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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
Date of Sampling	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	S1- Plant Area; Latitude: 21°59'26.41"N & Longitude: 85°19'39.29"E S2- Village Rugudihi; Latitude: 21°59'50.80"N & Longitude: 85°19'20.16"E S3- Village Lohidapada; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E	Lab Id Code	S1- GF/2024-25/S-08 S2- GF/2024-25/S-09 S3- GF/2024-25/S-10
Sampling Method	As Per TNAU Agri Portal		

Sl. No.	Parameter	Testing Methods	Unit	S1	S2	S3
01	pH	IS: 2720(Part-26)-1987	%	6.12	6.28	6.13
02	Organic Carbon	IS: 2720(Part-22)-1972	%	0.95	1.48	1.44
03	Moisture Content	IS: 2720(Part-2)-1973	%	7.4	7.6	7.8
04	Specific Gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.69	2.66	2.66
05	Sulfate	IS: 2720(Part-27)-1977	mg/Kg	90	112	116

Reviewed By

Authorized Signatory

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

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

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Report No- GFAPL/24-25/SMR/127

Issued Date- 04.12.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Barbil, Dist-Keonjhar, Odisha.		
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
Date of Sampling	25.11.2024	Date of Receiving	26.11.2024
Date of Analysis	26.11.2024	Date of Complete	30.11.2024
Sampling Location & Coordinates	S1- Plant Area; Latitude: 21°59'26.41"N & Longitude: 85°19'39.29"E S2- Village Rugudihi; Latitude: 21°59'50.80"N & Longitude: 85°19'20.16"E S3-Village Lohidapada; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E.		
Sampling Method	As Per TNAU Agri Portal		

Sl. No.	Parameter	Testing Methods	Unit	S1	S2	S3
01	Colour	GFAPL/SOP/Soil & Rock/01-23	--	Brown	Brown	Brown
02	Electrical conductivity (as EC)	IS:14767: 2000	micro s/cm	175.6	168.3	167.9
03	Soil Texture	GFAPL/SOP/Soil & Rock/02-23	--	Sandy loamy	Clay loamy	Clay loamy
04	Bulk Density	GFAPL/SOP/Soil & Rock/03-23	gm/cc	1.33	1.27	1.27
05	Calcium as Ca	IS: 2720(Part-23)	mg/kg	398	356	364
06	Magnesium as Mg	GFAPL/SOP/Soil & Rock/04-23	mg/kg	202	178	182
07	Nitrogen as N	IS:14684: 1999	kg/hect	62	128	124
08	Phosphorus	GFAPL/SOP/Soil & Rock/05-23	kg/hect	22	34	30
09	Potassium	GFAPL/SOP/Soil & Rock/06-23	mg/kg	138	124	120
10	Chloride	GFAPL/SOP/Soil & Rock/07-23	mg/kg	108	102	98



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Sl.No.	Parameter	Testing Methods	Unit	S1	S2	S3
11	Manganese (as Mn)	GFAPL/SOP/Soil & Rock/08-23	mg/kg	10.8	1.78	1.84
12	Iron (as Fe)	GFAPL/SOP/Soil & Rock/09-23	%	2.46	1.02	0.98

REMARKS: NR- Not Relaxable;

Reviewed By

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

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
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