

**ENVIRONMENT MONITORING REPORT
FOR THE MONTH OF
AUGUST - 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- TC122582400000000106F

Report No- GFAPL/24-25/SMR/062

Issued Date- 04.09.2024

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		

Date of Sampling	Lab Id Code	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)
01.08.2024	GF/24-25/A319	52.1	25.6	7.8	11.2
05.08.2024	GF/24-25/A327	50.5	25.0	6.4	10.8
08.08.2024	GF/24-25/A336	51.8	25.0	6.8	11.2
12.08.2024	GF/24-25/A344	56.4	27.9	7.2	11.8
16.08.2024	GF/24-25/A352	52.6	25.7	6.4	11.2
19.08.2024	GF/24-25/A360	54.8	26.4	6.2	10.8
22.08.2024	GF/24-25/A372	51.9	25.0	5.8	10.4
26.08.2024	GF/24-25/A384	56.8	28.1	6.8	11.2
29.08.2024	GF/24-25/A392	53.4	26.3	6.2	10.8
Max		56.8	28.1	7.8	11.8
Min		50.5	25.0	5.8	10.4
Avg		53.4	26.1	6.6	11.0
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

Authorized Signatory

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Miss. Arti Sahoo
Bhubaneswar, Odisha

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

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END OF REPORT

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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- TC122582400000000107F

Report No- GFAPL/24-25/SMR/063

Issued Date- 04.09.2024

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		

Date of Sampling	Lab Id Code	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)
01.08.2024	GF/24-25/A320	45.2	22.5	<4.0	<9.0
05.08.2024	GF/24-25/A328	43.4	21.3	<4.0	<9.0
08.08.2024	GF/24-25/A337	42.6	21.3	<4.0	<9.0
12.08.2024	GF/24-25/A345	45.8	22.1	<4.0	<9.0
16.08.2024	GF/24-25/A353	44.2	21.4	<4.0	<9.0
19.08.2024	GF/24-25/A361	46.9	22.9	<4.0	<9.0
22.08.2024	GF/24-25/A373	45.2	22.2	<4.0	<9.0
26.08.2024	GF/24-25/A385	46.9	23.1	<4.0	<9.0
29.08.2024	GF/24-25/A393	44.2	21.3	<4.0	<9.0
Max		46.9	23.1	<4.0	<9.0
Min		42.6	21.3	<4.0	<9.0
Avg		44.9	22.0	<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
Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Technical Manager
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 - Khurdha



Mail Id: greenforceassociates@gmail.com



ULR No- TC122582400000000108F

Report No- GFAPL/24-25/SMR/064

Issued Date-04.09.2024

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		

Date of Sampling	Lab Id Code	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)
01.08.2024	GF/24-25/A321	44.2	21.9	<4.0	<9.0
05.08.2024	GF/24-25/A329	42.5	20.6	<4.0	<9.0
08.08.2024	GF/24-25/A338	43.2	21.3	<4.0	<9.0
12.08.2024	GF/24-25/A346	46.1	22.9	<4.0	<9.0
16.08.2024	GF/24-25/A354	44.8	22.1	<4.0	<9.0
19.08.2024	GF/24-25/A362	46.7	22.9	<4.0	<9.0
22.08.2024	GF/24-25/A374	45.2	22.2	<4.0	<9.0
26.08.2024	GF/24-25/A386	45.8	22.5	<4.0	<9.0
29.08.2024	GF/24-25/A394	44.5	21.9	<4.0	<9.0
Max		46.7	22.9	<4.0	<9.0
Min		42.5	20.6	<4.0	<9.0
Avg		44.8	22.0	<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

Miss. Arti Sahoo

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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



ULR No- TC122582400000000109F

Report No- GFAPL/24-25/SMR/065

Issued Date- 04.09.2024

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		

Date of Sampling	Lab Id Code	PM10 ($\mu\text{g}/\text{m}^3$)	PM2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)
01.08.2024	GF/24-25/A322	43.5	21.9	<4.0	<9.0
05.08.2024	GF/24-25/A330	41.6	20.6	<4.0	<9.0
08.08.2024	GF/24-25/A339	42.5	21.3	<4.0	<9.0
12.08.2024	GF/24-25/A347	45.4	22.1	<4.0	<9.0
16.08.2024	GF/24-25/A355	43.5	21.4	<4.0	<9.0
19.08.2024	GF/24-25/A363	44.6	22.1	<4.0	<9.0
22.08.2024	GF/24-25/A375	42.8	20.6	<4.0	<9.0
26.08.2024	GF/24-25/A387	44.2	21.9	<4.0	<9.0
29.08.2024	GF/24-25/A395	41.6	20.6	<4.0	<9.0
Max		45.4	22.1	<4.0	<9.0
Min		41.6	20.6	<4.0	<9.0
Avg		43.3	21.4	<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

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



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/066

Issued Date- 04.09.2024

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		

Date of Sampling	CO (mg/m ³)			
	AAQ1	AAQ2	AAQ3	AAQ4
01.08.2024	0.30	0.19	0.18	0.17
05.08.2024	0.28	0.20	0.18	0.16
08.08.2024	0.30	0.17	0.17	0.18
12.08.2024	0.31	0.19	0.20	0.21
16.08.2024	0.30	0.18	0.18	0.20
19.08.2024	0.28	0.20	0.19	0.19
22.08.2024	0.26	0.19	0.18	0.18
26.08.2024	0.29	0.20	0.19	0.19
29.08.2024	0.27	0.18	0.17	0.16
Max	0.31	0.20	0.20	0.21
Min	0.26	0.17	0.17	0.16
Avg	0.28	0.18	0.18	0.18
NAAQ* Standard	4			
Methods of Analysis	IS: 5182 (Part- 10)			

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Chief Analyst

Miss. Arti 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- TC12258240000000110F

Report No- GFAPL/24-25/SMR/067

Issued Date- 04.09.2024

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.		

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/A138	Near Admin Office	26.08.2024	<8.0	<20.0
AAQ2	GF/24-25/A139	Near Dispensary	26.08.2024	<8.0	<20.0
AAQ3	GF/24-25/A140	Village Rugudi	26.08.2024	<8.0	<20.0
AAQ4	GF/24-25/A141	Village Lohidapada	26.08.2024	<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

Technical Manager

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

Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/24-25/SMR/068

Issued Date- 04.09.2024

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	Date of Sampling	26.08.2024
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.		

Name of Location	Location	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	C6H6 ($\mu\text{g}/\text{m}^3$)	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

Chief Analyst

Miss. Arti 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 - Khurdha



Mail Id: greenforceassociates@gmail.com



ULR No- TC12258240000000111F

Report No- GFAPL/24-25/SMR/069

Issued Date- 04.09.2024

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		

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	12.08.2024	62.3	49.8
2	Near Dispensary; Latitude: 21°59'33.80"N& Longitude: 85°19'24.18"E	12.08.2024	48.6	38.3
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	16.08.2024	49.1	38.9
4	Village Lohidapada; Latitude: 21°59'35.97"N& Longitude: 85°19'08.86"E	16.08.2024	48.9	38.8
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. Arti Sahoo

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TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

Technical Manager

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



Mail Id: greenforceassociates@gmail.com



ULR No- TC122582400000000112F

Report No- GFAPL/24-25/SMR/070

Issued Date- 04.09.2024

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		

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	19.08.2024	67.9	61.4
2	Near Crushing Plant; Latitude: 21°59'27.80"N& Longitude: 85°19'38.89"E	19.08.2024	68.2	63.2
3	Near Power Plant; Latitude: 21°59'27.87"N& Longitude: 85°19'30.78"E	22.08.2024	66.6	61.7
4	Near SMS - 1; Latitude: 21°59'23.62"N& Longitude: 85°19'37.62"E	22.08.2024	68.2	61.5
5	Near SMS - 2; Latitude: 21°59'36.28"N& Longitude: 85°19'34.16"E	26.08.2024	68.3	62.8
6	Near Blast Furnace; Latitude: 21°59'23.15"N& Longitude: 85°19'32.77"E	26.08.2024	68.6	63.4
7	Near Rolling Mill-1; Latitude: 21°59'23.96"N& Longitude: 85°19'39.63"E	29.08.2024	69.9	65.1
8	Near Rolling Mill-2; Latitude: 21°59'39.20"N& Longitude: 85°19'36.15"E	29.08.2024	69.4	64.8
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
Bhubaneswar, Odisha

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Note:

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Plot No- 1363-3892, Baibhab Realcon, Fulnakhara,
Cuttack, Odisha, India 754001



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- TC122582400000000113F

Report No- GFAPL/24-25/SMR/071

Issued Date- 04.09.2024

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				
Sl. No.	Name of Location	Lab Id Code	Latitude	Longitude	Date of Sampling	Result
1	Near Main Gate	GF/24-25/A364	21°59'36.61"N	85°19'27.95"E	20.08.2024	421.4
2	Near Crushing Plant	GF/24-25/A365	21°59'27.80"N	85°19'38.89"E	20.08.2024	408.2
3	Near Power Plant	GF/24-25/A366	21°59'27.87"N	85°19'30.78"E	20.08.2024	410.6
4	Near SMS-1	GF/24-25/A367	21°59'23.62"N	85°19'37.62"E	20.08.2024	403.5
5	Near SMS-2	GF/24-25/A376	21°59'36.28"N	85°19'34.16"E	23.08.2024	376.2
6	Near Blast Furnace	GF/24-25/A377	21°59'23.15"N	85°19'32.77"E	23.08.2024	362.4
7	Near Rolling Mill-1	GF/24-25/A378	21°59'23.96"N	85°19'39.63"E	23.08.2024	378.2
8	Near Rolling Mill-2	GF/24-25/A379	21°59'39.20"N	85°19'36.15"E	23.08.2024	356.4
Fugitive Standard						1200
Methods of Analysis					IS:5182(Part-24)	

Reviewed By

Arti Sahoo

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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Authorized Signatory

S.K. Barhi

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- TC122582400000000114F
Report No- GFAPL/24-25/SMR/072

Issued Date- 04.09.2024

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	22.08.2024	Date of Receiving	23.08.2024
Date of Analysis	24.08.2024	Date of Complete	26.08.2024
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/St28 ST2- GF/2023-24/St29

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST1	ST2
01	Temperature in K	IS-11255 (PART-3) 1985	---	399	397
02	Velocity in m/sec	IS-11255 (PART-3) 1985	---	15.60	14.95
03	Flow Rate in (mg/Nm ³)	IS-11255 (PART-3) 1985	---	57390.4	55554.7
05	Particulate Matter (PM) in mg/Nm ³	IS-11255(PART-1) 1985 Gravimetric Method	100	31.4	28.6
06	SO ₂ (mg/Nm ³)	IS-11255(PART-2) 1985	600	28.3	78.5
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
GREENFORCE ASSOCIATES PRIVATE LIMITED
Chief Analyst
Bhubaneswar, ODISHA
Miss. Arti Sahoo

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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- TC12258240000000115F

Report No- GFAPL/24-25/SMR/073

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	29.08.2024
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/St30 ST2-GF/2023-24/St31

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST3	ST4
01	Temperature in K	IS-11255 (PART-3) 1985	---	396	399
02	Velocity in m/sec	IS-11255 (PART-3) 1985	---	15.07	15.35
03	Flow Rate in (mg/Nm ³)	IS-11255 (PART-3) 1985	---	22620.9	89348.9
04	PM (mg/Nm ³)	IS-11255(PART-1) 1985 Gravimetric Method	100	31.4	18.8
05	SO ₂ (mg/Nm ³)	IS-11255(PART-2) 1985	600	68.3	17.1
06	CO in %	IS-13270:1992	1%	<0.2	<0.2
07	CO ₂ in %	IS-13270:1992	---	1.7	1.6

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst

Miss. Arti Sahoo

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Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Technical Manager

Mr. S.K. Parhi

END OF REPORT

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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Report No- GFAPL/24-25/SMR/074

Issued Date- 04.09.2024

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	22.08.2024	Date of Receiving	23.08.2024
Date of Analysis	24.08.2024	Date of Complete	26.08.2024
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		

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	60.2	72.4

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

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Report No- GFAPL/24-25/SMR/075

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	29.08.2024
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		

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	66.2

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst
Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

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- TC12258240000000116F

Report No- GFAPL/24-25/SMR/076

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
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/W062

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	7.08
04	Conductivity	APHA 24th ED 2510-B: 2023	ms/cm	--	167.3
05	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	1500	102
06	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	16.0
07	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	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	0.5	0.28
10	Sulfate(as SO4)	APHA 24th ED 4500- SO4 D: 2023	mg/l	400	4.2



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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	3.7
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	--	10.0

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

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

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

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Report No- GFAPL/24-25/SMR/076

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
Sampling Location & Coordinates	SW- Karo River; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW
01	Nitrate as (NO ₃)	APHA 24th ED 4500-NO3-E: 2023	mg/l	50	1.42
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	0.06
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	0.08
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

Chief Analyst

Miss. Arti Sahoo

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END OF REPORT

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Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

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- TC122582400000000117F

Report No- GFAPL/24-25/SMR/077

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
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/W063 GW2-GF/24-25/W064 GW2-GF/24-25/W065

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	7.08	7.14	7.02
04	Total Dissolved Solids(TDS)	APHA 24th ED: 2540-C: 2023	mg/l	500	2000	228.0	244.0	210.0
05	Chloride (as Cl)	APHA 24th Ed 4500-Cl-B:2023	mg/l	250	1000	17.0	20.0	18.0
06	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	102.0	106.0	98.0
07	Calcium	APHA 24th Ed 3500-Ca-B:2023	mg/l	75	200	32.1	33.7	29.7
08	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	14.3	15.1	10.9

REMARKS: NR- Not Relaxable;



GREEN FORCE ASSOCIATES PRIVATE LIMITED



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	130.0	138.0	116.0
10	Residual Free Chlorine	APHA 24 th 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	0.16	0.17	0.18
14	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	2.6	2.4	2.6
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	14.2	12.9
19	Potassium as K(max)	APHA 24th ED 3500-K-B	mg/l	--	--	1.4	1.6	1.5

REMARKS: NR- Not Relaxable;

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Technical Manager

Mr. S.K. Parhi

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

Report No- GFAPL/24-25/SMR/077

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
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		

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	1.44	1.52	1.64
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	--	--	<1.8	<1.8	<1.8

REMARKS: NR- Not Relaxable, ND-Not Detectable

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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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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ULR No- TC12258240000000118F

Report No- GFAPL/24-25/SMR/078

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	30.08.2024
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/W066 ETP2- GF/24-25/W067

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	7.14	7.08
02	Conductivity	APHA 24th ED 2510-B: 2023	ms/cm	--	217.8	210.8
03	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	--	132.0	128.0
04	Total Suspended Solids(TSS)	APHA 24th ED 2540-D: 2023	mg/l	600	228	16
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 Cr+3)	APHA 24th ED 3500-Cr-B: 2023	mg/l	2.0	0.2	<0.05
07	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	3	0.98	0.36
08	Sulfate(as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	--	18.6	5.8



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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	0.32	0.08
10	Phosphate (as PO ₄)	APHA 24th ED 4500-P-D: 2023	mg/l	--	0.98	<0.05
11	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	20	3.2	<2.0
12	Chemical Oxygen Demand (as COD)	APHA 24th ED 5220 C:2023	mg/l	--	220.0	12.0
13	Ammonical Nitrogen	APHA 24th ED 4500-NH ₃ - C:2023	mg/l	50	2.8	<0.7

Reviewed By

Authorized Signatory

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

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

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Report No- GFAPL/24-25/SMR/078

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	30.08.2024
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.		

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	--	8.6	1.84
02	Total Kjeldhal Nitrogen	APHA 24th ED 4500-Norg B; NH3-B, C:2023	mg/l	--	6.4	1.4

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

Chief Analyst

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

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Technical Manager

Mr. S.K. Parhi

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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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ULR No- TC12258240000000119F
Report No- GFAPL/24-25/SMR/079

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
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/W068 STP2- GF/24-25/W069 STP3- GF/24-25/W070

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	6.96	7.08	7.12
02	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	--	108	120	116
03	Total Suspended Solids(TSS)	APHA 24th ED 2540-D: 2023	mg/l	<50	12	14	12
04	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	--	<2.0	<2.0	<2.0
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	--	10	12	10

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BHUBANESWAR, ODISHA
Miss. Arti Sahoo

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Plot No- 1363-3892, Baibhab Realcon, Fulnakhara,
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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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Report No- GFAPL/24-25/SMR/079

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
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.		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per- MoEFCC 13 th October 2017	STP1	STP2	STP3
01	Total Kjheldhal Nitrogen	APHA 24th ED 4500-Norg B; NH3-B, C:2023	mg/l	--	1.4	1.4	1.4

Reviewed By
CHIEF ANALYST
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BHUBANESWAR, ODISHA
Chief Analyst
Miss. Arti Sahoo

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ULR No- TC122582400000000120F
Report No- GFAPL/24-25/SMR/080

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
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-05 S2- GF/2024-25/S-06 S3- GF/2024-25/S-07

Sl. No.	Parameter	Testing Methods	Unit	S1	S2	S3
01	pH	IS: 2720(Part-26)-1987	%	6.08	6.46	6.24
02	Organic Carbon	IS: 2720(Part-22)-1972	%	0.92	1.54	1.42
03	Moisture Content	IS: 2720(Part-2)-1973	%	8.8	9.2	8.9
04	Specific Gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.68	2.66	2.67
05	Sulfate	IS: 2720(Part-27)-1977	mg/Kg	98	124	120

Reviewed By
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Report No- GFAPL/24-25/SMR/080

Issued Date- 04.09.2024

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	26.08.2024	Date of Receiving	27.08.2024
Date of Analysis	27.08.2024	Date of Complete	31.08.2024
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.		

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	168.6	156.2	152.4
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	1.34	1.26	1.28
05	Calcium as Ca	IS: 2720(Part-23)	mg/kg	384	346	338
06	Magnesium as Mg	GFAPL/SOP/Soil & Rock/04-23	mg/kg	190	182	174
07	Nitrogen as N	IS:14684: 1999	kg/hect	54	128	136
08	Phosphorus	GFAPL/SOP/Soil & Rock/05-23	kg/hect	24	32	32
09	Potassium	GFAPL/SOP/Soil & Rock/06-23	mg/kg	132	112	104
10	Chloride	GFAPL/SOP/Soil & Rock/07-23	mg/kg	98	86	82



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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	9.42	1.68	1.64
12	Iron (as Fe)	GFAPL/SOP/Soil & Rock/09-23	%	2.12	0.98	0.92

REMARKS: NR- Not Relaxable;

Reviewed By

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Miss. Arti Sahoo

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TECHNICAL MANAGER
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