

**ENVIRONMENT MONITORING
REPORT OF
MONTH FEBRUARY-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- TC122582300000000103F

Report No- GFAPL/23-24/SMR/065

Issued Date- 04.03.2024

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 ($\mu\text{g}/\text{m}^3$)
01.02.2024	GF/23-24/A331	81.5	42.5	16.8	24.2
05.02.2024	GF/23-24/A339	85.2	44.2	17.6	26.8
08.02.2024	GF/23-24/A347	84.2	44.2	17.2	26.4
12.02.2024	GF/23-24/A355	87.6	46.3	18.2	26.8
15.02.2024	GF/23-24/A363	89.8	51.3	18.8	27.6
19.02.2024	GF/23-24/A375	92.8	53.8	19.4	28.2
22.02.2024	GF/23-24/A383	90.6	52.5	19.8	28.8
26.02.2024	GF/23-24/A395	91.8	53.3	20.6	29.6
29.02.2024	GF/23-24/A403	89.7	51.3	20.2	28.8
Avg		88.1	48.8	18.7	27.4
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)

Verified By

Authorized By

CHIEF ANALYST
GREEN FORCE ASSOCIATES PRIVATE LIMITED
Miss Anu Sahoo
BARAMUNDA, ODISHA

TECHNICAL MANAGER
GREEN FORCE ASSOCIATES PRIVATE LIMITED
BARAMUNDA, ODISHA

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END OF REPORT

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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- TC122582300000000104F

Report No- GFAPL/23-24/SMR/066

Issued Date- 04.03.2024

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 ($\mu\text{g}/\text{m}^3$)
01.02.2024	GF/23-24/A332	60.2	31.3	9.8	13.6
05.02.2024	GF/23-24/A340	62.7	32.5	10.3	14.5
08.02.2024	GF/23-24/A348	64.4	33.8	10.4	14.8
12.02.2024	GF/23-24/A356	66.7	33.8	10.8	15.2
15.02.2024	GF/23-24/A364	65.1	33.8	11.3	15.6
19.02.2024	GF/23-24/A376	66.6	35	11.6	15.8
22.02.2024	GF/23-24/A384	67.8	35	11.9	16.6
26.02.2024	GF/23-24/A396	64.6	32.5	11.6	16.9
29.02.2024	GF/23-24/A404	66.9	35	12.3	17.2
Avg		65.0	33.6	11.1	15.5
NAAQ* Standard		100	60	80	80
Methods of Analysis		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

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

TECHNICAL MANAGER
GREEN FORCE 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

ULR No- TC122582300000000105F

Report No- GFAPL/23-24/SMR/067

Issued Date- 04.03.2024

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 ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)
01.02.2024	GF/23-24/A333	56.7	28.8	7.3	11.6
05.02.2024	GF/23-24/A341	60.4	31.3	8.3	12.8
08.02.2024	GF/23-24/A349	65.1	33.8	8.6	13.4
12.02.2024	GF/23-24/A357	64.1	32.5	8.3	13.2
15.02.2024	GF/23-24/A365	63.2	32.5	8.6	13.6
19.02.2024	GF/23-24/A377	65.1	33.8	9.3	14.2
22.02.2024	GF/23-24/A385	68.1	35	9.6	14.8
26.02.2024	GF/23-24/A397	69.7	36.3	10.3	15.6
29.02.2024	GF/23-24/A405	66.4	33.8	9.6	14.8
Avg		64.3	33.0	8.8	13.7
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)

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

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

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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 - Khurda

Mail Id: greenforceassociates@gmail.com

ULR No- TC12258230000000106F

Report No- GFAPL/23-24/SMR/068

Issued Date- 04.03.2024

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 ($\mu\text{g}/\text{m}^3$)
01.02.2024	GF/23-24/A334	56.9	28.8	7.3	11.6
05.02.2024	GF/23-24/A342	61.4	31.3	8.1	12.6
08.02.2024	GF/23-24/A350	63.6	32.5	8.4	13.2
12.02.2024	GF/23-24/A358	60.7	31.3	7.6	12.6
15.02.2024	GF/23-24/A366	64.4	32.5	8.1	13.2
19.02.2024	GF/23-24/A378	62.9	31.3	7.8	12.8
22.02.2024	GF/23-24/A386	60.7	30	8.3	13.6
26.02.2024	GF/23-24/A398	65.5	33.8	8.8	14.5
29.02.2024	GF/23-24/A406	63.9	32.5	8.5	13.8
Avg		62.2	31.5	8.1	13.1
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)

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CHIEF ANALYST

GREEN FORCE ASSOCIATES PRIVATE LIMITED
Miss Arti Sahoo
Bhubaneswar, Odisha

Authorized By

TECHNICAL MANAGER

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

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GREEN FORCE ASSOCIATES PRIVATE LIMITED

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

Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/23-24/SMR/069

Issued Date- 04.03.2024

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
01.02.2024	0.55	0.37	0.34	0.32
05.02.2024	0.58	0.4	0.36	0.35
08.02.2024	0.56	0.42	0.38	0.37
12.02.2024	0.58	0.41	0.37	0.36
15.02.2024	0.62	0.43	0.38	0.38
19.02.2024	0.64	0.44	0.4	0.36
22.02.2024	0.66	0.46	0.42	0.38
26.02.2024	0.69	0.47	0.44	0.4
29.02.2024	0.68	0.49	0.43	0.39
Avg	0.61	0.43	0.39	0.36
NAAQ* Standard	4			
Methods of Analysis	IS: 5182 (Part- 10)			

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CHIEF ANALYST

GREEN FORCE ASSOCIATES PRIVATE LIMITED

Miss Bhubaneswar, Odisha

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TECHNICAL MANAGER

GREEN FORCE ASSOCIATES PRIVATE LIMITED

Mr. S. N. Barhi

Working office Address :

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



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- TC12258230000000107F

Report No- GFAPL/23-24/SMR/070

Issued Date- 04.03.2024

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/23-24/A155	Near Admin Office	19.02.2024	12.3	28.8
AAQ2	GF/23-24/A156	Near Dispensary	19.02.2024	10.8	24.8
AAQ3	GF/23-24/A157	Village Rugudi	19.02.2024	11.2	25.8
AAQ4	GF/23-24/A158	Village Lohidapada	19.02.2024	11.8	26.2
NAAQ* Standard				100	400
Methods of Analysis				IS:5182 (Part-9)	IS:5182 (Part-25)

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CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Miss. Arati Sahoo
BHUBANESWAR, ODISHA

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[Signature]

TECHNICAL MANAGER

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

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

Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/23-24/SMR/071

Issued Date- 04.03.2024

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	19.02.2024
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)

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


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

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Working office Address :

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



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- TC122582300000000108F
Report No- GFAPL/23-24/SMR/072

Issued Date- 04.03.2024

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	19.02.2024	66.1	51.9
2	Near Dispensary; Latitude: 21°59'33.80"N& Longitude: 85°19'24.18"E	19.02.2024	47.7	37.8
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	20.02.2024	47.5	37.4
4	Village Lohidapada; Latitude: 21°59'35.97"N& Longitude: 85°19'08.86"E	20.02.2024	47.8	37.6
Residential Zone permissible limits as per CPCB Norms			55 dB(A)	45 dB(A)

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CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
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- TC122582300000000109F

Report No- GFAPL/23-24/SMR/073

Issued Date- 04.03.2024

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	21.02.2024	68.9	63.9
2	Near Crushing Plant; Latitude: 21°59'27.80"N& Longitude: 85°19'38.89"E	21.02.2024	69.7	64.8
3	Near Power Plant; Latitude: 21°59'27.87"N& Longitude: 85°19'30.78"E	22.02.2024	69.5	64.4
4	Near SMS - 1; Latitude: 21°59'23.62"N& Longitude: 85°19'37.62"E	22.02.2024	69.4	64.6
5	Near SMS - 2; Latitude: 21°59'36.28"N& Longitude: 85°19'34.16"E	23.02.2024	69.5	65.1
6	Near Blast Furnace; Latitude: 21°59'23.15"N& Longitude: 85°19'32.77"E	23.02.2024	70.1	64.9
7	Near Milling Role-1; Latitude: 21°59'23.96"N& Longitude: 85°19'39.63"E	24.02.2024	70.5	67.4
8	Near Milling Role-2; Latitude: 21°59'39.20"N& Longitude: 85°19'36.15"E	24.02.2024	70.3	66.9
Industrial Zone permissible limits as per CPCB Norms			Day Time- 75 dB(A)	Night Time- 70 dB(A)

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CHIEF ANALYST

GREEN FORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Miss. Arti Sahoo

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Bhubaneswar, Odisha

Mr. S.K. Parhi



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

✉ Mail Id: greenforceassociates@gmail.com



ULR No- TC122582300000000110F

Report No- GFAPL/23-24/SMR/074

Issued Date- 04.03.2024

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/23-24/A367	21°59'36.61"N	85°19'27.95"E	16.02.2024	1024.2
2	Near Crushing Plant	GF/23-24/A368	21°59'27.80"N	85°19'38.89"E	16.02.2024	918.6
3	Near Power Plant	GF/23-24/A369	21°59'27.87"N	85°19'30.78"E	16.02.2024	966
4	Near SMS-1	GF/23-24/A370	21°59'23.62"N	85°19'37.62"E	16.02.2024	1037
5	Near SMS-2	GF/23-24/A387	21°59'36.28"N	85°19'34.16"E	23.02.2024	1025.8
6	Near Blast Furnace	GF/23-24/A388	21°59'23.15"N	85°19'32.77"E	23.02.2024	917.7
7	Near MillingRole-1	GF/23-24/A389	21°59'23.96"N	85°19'39.63"E	23.02.2024	953.2
8	Near MillingRole-2	GF/23-24/A390	21°59'39.20"N	85°19'36.15"E	23.02.2024	982.8
Fugitive Standard						1200
Methods of Analysis					IS:5182(Part-24)	

Verified By

Authorized By

CHIEF ANALYST
GREEN FORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

TECHNICAL MANAGER
GREEN FORCE ASSOCIATES PRIVATE LIMITED
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



ULR No- TC122582300000000111F

Report No- GFAPL/23-24/SMR/075

Issued Date- 04.03.2024

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	26.02.2024	Date of Receiving	27.02.2024
Date of Analysis	27.02.2024	Date of Complete	29.02.2024
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/St32 ST2- GF/2023-24/St33

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST1	ST2
01	Temperature in K	IS-11255 (PART-3) 1985, (RA-2013)	---	397	399
02	Velocity in m/sec	IS-11255 (PART-3) 1985, (RA-2013)	---	14.31	14.44
03	Flow Rate in (mg/Nm ³)	IS-11255 (PART-3) 1985, (RA-2013)	---	53703.0	53648.9
05	Particulate Matter (PM) in mg/Nm ³	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	100	29.6	30.8
06	SO ₂ (mg/Nm ³)	IS-11255(PART-2) 1985, (RA-2019)	600	55.8	58.6
07	CO in %	IS-13270:1992, (RA-2019)	1%	<0.2	<0.2
08	CO ₂ in %	IS-13270:1992, (RA-2019)	---	1.8	2.1

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CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

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

Mail Id: greenforceassociates@gmail.com



ULR No- TC122582300000000112F

Report No- GFAPL/23-24/SMR/076

Issued Date- 04.03.2024

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	27.02.2024	Date of Receiving	28.02.2024
Date of Analysis	28.02.2024	Date of Complete	01.03.2024
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/St34 ST2-GF/2023-24/St35

Sl. No	Parameter	Testing Method	As per CPCB Standard	ST3	ST4
01	Temperature in K	IS-11255 (PART-3) 1985, (RA-2013)	---	396	384
02	Velocity in m/sec	IS-11255 (PART-3) 1985, (RA-2013)	---	14.99	14.04
03	Flow Rate in (mg/Nm ³)	IS-11255 (PART-3) 1985, (RA-2013)	---	22723.6	89106.6
04	PM (mg/Nm ³)	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	100	30.4	31.1
05	SO ₂ (mg/Nm ³)	IS-11255(PART-2) 1985, (RA-2019)	600	49.1	47.0
06	CO in %	IS-13270:1992, (RA-2019)	1%	<0.2	<0.2
07	CO ₂ in %	IS-13270:1992, (RA-2019)	---	1.9	1.9

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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- 1363-3892, Baibhab Realcon, Fulnakhara, Cuttack, Odisha, India 754001

Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/23-24/SMR/077

Issued Date- 04.03.2024

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	26.02.2024	Date of Receiving	27.02.2024
Date of Analysis	27.02.2024	Date of Complete	29.02.2024
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	54.4	66.8

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



GREEN FORCE ASSOCIATES PRIVATE LIMITED

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

Report No- GFAPL/23-24/SMR/078

Issued Date- 04.03.2024

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	27.02.2024	Date of Receiving	28.02.2024
Date of Analysis	28.02.2024	Date of Complete	01.03.2024
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	54.2	58.8

Verified By

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

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TECHNICAL MANAGER
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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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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- TC122582300000000113F
Report No- GFAPL/23-24/MIL/079

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	24.02.2024
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/23-24/W078 GW2-GF/23-24/W079 GW2-GF/23-24/W080

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	7.02	7.06	6.94
04	Total Dissolved Solids(TDS)	APHA 24th ED: 2540-C: 2023	mg/l	500	2000	220.0	232.0	196.0
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	136.0	142.0	114.0
07	Calcium	APHA 24th Ed 3500-Ca-B:2023	mg/l	75	200	31.3	32.9	28.9
08	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	14.1	14.6	10.2

REMARKS: NR- Not Relaxable;



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

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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	126.0	135.0	108.0
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	0.21	0.22	0.22
14	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	3.6	3.8	4.1
15	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	0.08	0.10	0.12
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	--	--	10.6	12.2	11.8
19	Potassium as K(max)	APHA 24th ED 3500-K-B	mg/l	--	--	1	1.3	1.2

REMARKS: NR- Not Relaxable;

Verified By

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[Signature]
CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

[Signature]
TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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GREEN FORCE ASSOCIATES PRIVATE LIMITED

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

Mail Id: greenforceassociates@gmail.com

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

Report No- GFAPL/23-24/MIL/080

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	24.02.2024
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	1.72	1.76	1.88
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

Working office Address :

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



GREEN FORCE ASSOCIATES PRIVATE LIMITED

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

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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	100/MPN	0.2	NR	<1.8	<1.8	<1.8

REMARKS: NR- Not Relaxable, ND-Not Detectable

Verified By

[Signature]

CHIEF ANALYST

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

Authorized By

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TECHNICAL MANAGER

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

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Working office Address :

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



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- TC122582300000000114F
Report No- GFAPL/23-24/MIL/081

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	26.02.2024
Sampling Location & Coordinates	SW- Karo River; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E	Lab Id Code	SW-GF/23-24/W077

Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW
01	Colour	IS 3025: (Part 4)- 1983	Hazen	300	<5.0
02	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	<1.0
03	pH Value @250C	APHA 24th ED 4500-H+B:2023	--	6.0-9.0	7.39
04	Conductivity	APHA 24th ED 2510-B: 2023	ms/cm	--	251.3
05	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	1500	142
06	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	21.0
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	0.5	0.41
10	Sulfate(as SO4)	APHA 24th ED 4500- SO4 D: 2023	mg/l	400	7.8



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-2296 Class-C	SW
11	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	0.1
12	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	--	<1.0
13	Dissolved Oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	5.9
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	--	18.0

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CHIEF ANALYST
GREEN FORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

TECHNICAL MANAGER
GREEN FORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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Report No- GFAPL/23-24/MIL/082

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	26.02.2024
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-NO ₃ -E: 2023	mg/l	50	2.18
02	Phenolic Compound (as C ₆ H ₅ OH)	APHA 24th ED 5530 B,D: 2023	mg/l	0.005	<0.001
03	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	0.12
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	0.16
06	Arsenic (as As)	APHA 24th ED 3500 As: 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	100/MPN	5000	410

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Arti Sahoo

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Miss. Arti Sahoo
BHUBANESWAR, ODISHA

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S.K. Parhi

TECHNICAL MANAGER

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Mr. S.K. Parhi
BHUBANESWAR, ODISHA

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GREEN FORCE ASSOCIATES PRIVATE LIMITED



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ULR No- TC122582300000000115F
Report No- GFAPL/23-24/MIL/083

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	24.02.2024
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/23-24/W081 ETP2- GF/23-24/W082

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	6.84	7.18
02	Conductivity	APHA 24th ED 2510-B: 2023	ms/cm	--	232.4	268.9
03	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	2100	146.0	172.0
04	Total Suspended Solids(TSS)	APHA 24th ED 2540-D: 2023	mg/l	100	164	10
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-B)	APHA 24th ED 3500-Cr-B: 2023	mg/l	2	0.32	<0.05
07	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	3	0.84	0.36
08	Sulfate(as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	1000	20.4	8.2



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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	1.5-2	0.4	0.14
10	Phosphate (as PO ₄)	APHA 24th ED 4500-P-D: 2023	mg/l	5	1.82	0.12
11	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	10	3.2	<1.0
12	Chemical Oxygen Demand (as COD)	APHA 24th ED 5220 C:2023	mg/l	250	420.0	20.0
13	Ammonical Nitrogen	APHA 24th ED 4500-NH ₃ - C:2023	mg/l	50	2.8	0.7

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CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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Report No- GFAPL/23-24/MIL/084

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	24.02.2024
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-NO ₃ -E: 2023	mg/l	10-20	10.6	2.8
02	Total Kjeldhal Nitrogen	APHA 24th ED 4500-Norg B; NH ₃ -B, C:2023	mg/l	100	8.4	1.4

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CHIEF ANALYST
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BHUBANESWAR, ODISHA

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

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ULR No- TC122582300000000116F

Report No- GFAPL/23-24/MIL/085

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	26.02.2024
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/23-24/W083 STP2- GF/23-24/W084 STP3- GF/23-24/W085

Sl. No.	Parameter	Testing Methods	Unit	Standard as per- MoEFCC 13 th October 2017	STP1	STP2	SRTP
01	pH Value @250C	APHA 24th ED 4500 H+B:2023	--	6.5-9.0	7.08	7.11	6.98
02	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	--	138	148	136
03	Total Suspended Solids(TSS)	APHA 24th ED 2540-D: 2023	mg/l	<50	12	10	10
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	--	12	16	10

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GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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TECHNICAL MANAGER
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Report No- GFAPL/23-24/MIL/086

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	26.02.2024
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 Kjeldhal Nitrogen	APHA 24th ED 4500-Norg B; NH3-B, C:2023	mg/l	--	1.4	1.4	0.7

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CHIEF ANALYST
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BHUBANESWAR, ODISHA

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

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ULR No- TC122582300000000117F
Report No- GFAPL/23-24/MIL/087

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	26.02.2024
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/2023-24/S-94 S2- GF/2023-24/S-95 S3- GF/2023-24/S-96

Sl. No.	Parameter	Testing Methods	Unit	S1	S2	S3
01	pH	IS: 2720(Part-26)-1987	%	6.04	6.28	6.13
02	Organic Carbon	IS: 2720(Part-22)-1972	%	1.08	1.48	1.56
03	Moisture Content	IS: 2720(Part-2)-1973	%	6.8	7.2	6.9
04	Specific Gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.69	2.68	2.64
05	Sulfate	IS: 2720(Part-27)-1977	mg/Kg	128	142	148

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TECHNICAL MANAGER
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BARAMUNDA, ODISHA

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Report No- GFAPL/23-24/MIL/088

Issued Date- 04.03.2024

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	20.02.2024	Date of Receiving	21.02.2024
Date of Analysis	21.02.2024	Date of Complete	26.02.2024
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	182.4	184.2	168.6
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	1.28	1.28
05	Calcium as Ca	IS: 2720(Part-23)	mg/kg	398	368	348
06	Magnesium as Mg	GFAPL/SOP/Soil & Rock/04-23	mg/kg	196	184	178
07	Nitrogen as N	IS:14684: 1999	kg/hect	68	148	134
08	Phosphorus	GFAPL/SOP/Soil & Rock/05-23	kg/hect	32	30	28
09	Potassium	GFAPL/SOP/Soil & Rock/06-23	mg/kg	178	134	142
10	Chloride	GFAPL/SOP/Soil & Rock/07-23	mg/kg	90	108	102

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Working office Address :

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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	8.2	1.8	2.1
12	Iron (as Fe)	GFAPL/SOP/Soil & Rock/09-23	%	2.98	1.62	1.54

REMARKS: NR- Not Relaxable;

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CHIEF ANALYST
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Miss N. B. Sahoo
BHUBANESWAR, ODISHA

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

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