

ENVIRONMENT MONITORING REPORT
FOR THE MONTH OF
JUNE -2024

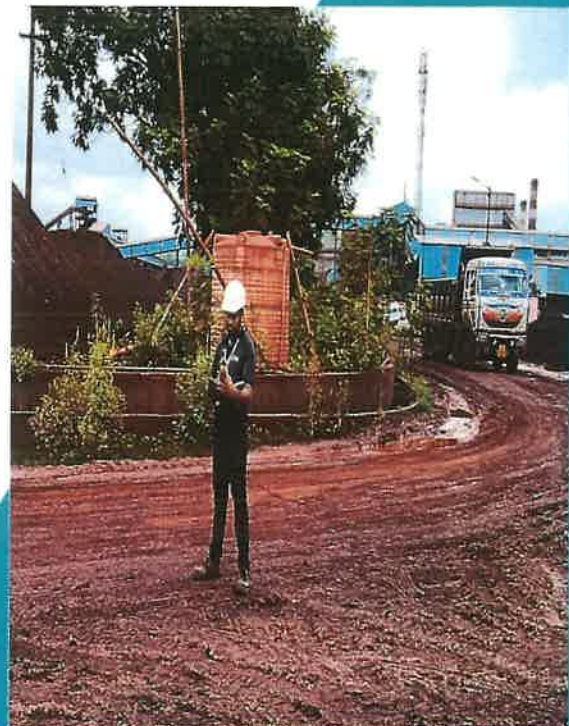


Client- M/s SREE METALIKS LTD.
Address- Anra, Upper Raigoda, Banspal
Dist- Keonjhar, Odisha



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



Report No- GFAPL/24-25/SMA/023

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 Entry Gate: 21°41'13.17"N Latitude & 85°26'17.90"E Longitude		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler		

Date of Sampling	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 ($\mu\text{g}/\text{m}^3$)
03.06.2024	71.4	36.2	13.6	18.6
06.06.2024	73.8	37.2	14.2	19.7
10.06.2024	75.6	38.4	15.2	20.8
13.06.2024	76.7	38.9	15.8	21.6
17.06.2024	80.8	41.7	16.6	22.8
20.06.2024	72.4	36.8	13.2	19.6
24.06.2024	74.6	37.2	14.2	20.2
27.06.2024	58.3	28.6	10.2	14.6
Max	80.8	41.7	16.6	22.8
Min	58.3	28.6	10.2	14.6
Avg	72.9	36.8	14.1	19.7
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)

Verified By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Bhubaneswar, Odisha

Note:

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END OF REPORT

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Authorized By

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

Report No- GFAPL/24-25/SMA/024

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 Security Barak: 21°41'2.88"N Latitude & 85°25'56.46"E Longitude		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler		

Date of Sampling	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 ($\mu\text{g}/\text{m}^3$)
03.06.2024	66.8	33.9	12.2	17.2
06.06.2024	69.6	35.4	13.2	18.4
10.06.2024	72.6	37.2	14.4	19.8
13.06.2024	74.5	38.2	14.8	20.6
17.06.2024	77.8	39.2	15.4	21.8
20.06.2024	70.2	35.6	12.8	18.2
24.06.2024	71.2	36.4	13.4	18.8
27.06.2024	55.6	27.8	9.2	13.4
Max	77.8	39.2	15.4	21.8
Min	55.6	27.8	9.2	13.4
Avg	69.7	35.4	13.1	18.5
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)

Verified By

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GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

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GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha



GREEN FORCE ASSOCIATES PRIVATE LIMITED



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



Mail Id: greenforceassociates@gmail.com



Report No- GFAPL/24-25/SMA/025

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler		

Date of Sampling	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 ($\mu\text{g}/\text{m}^3$)
03.06.2024	56.2	28.6	6.8	12.2
06.06.2024	58.4	29.4	7.2	12.8
10.06.2024	60.6	30.7	7.8	13.4
13.06.2024	64.2	32.9	8.2	13.8
17.06.2024	65.8	33.2	8.6	14.4
20.06.2024	59.6	30.1	7.8	13.6
24.06.2024	60.8	30.6	8.2	14.4
27.06.2024	50.1	24.8	5.2	10.2
Max	65.8	33.2	8.6	14.4
Min	50.1	24.8	5.2	10.2
Avg	59.4	33.7	7.4	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)

Verified By

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

Authorized By

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Miss. Arun Sahoo

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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



Report No- GFAPL/24-25/SMA/026

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler		

Date of Sampling	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 ($\mu\text{g}/\text{m}^3$)
03.06.2024	54.1	27.5	6.2	11.2
06.06.2024	55.8	27.8	6.6	11.6
10.06.2024	57.2	28.2	6.9	12.3
13.06.2024	60.5	30.6	7.4	12.8
17.06.2024	62.4	31.2	7.8	13.4
20.06.2024	57.5	28.8	6.8	12.8
24.06.2024	56.4	28.3	7.1	13.2
27.06.2024	49.2	24.6	<4.0	<9.0
Max	62.4	31.2	7.8	13.4
Min	49.2	24.6	<4.0	<9.0
Avg	56.6	25.8	6.9	12.4
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
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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Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com

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Report No- GFAPL/24-25/SMA/027

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 Entry Gate: 21°41'13.17"N Latitude & 85°26'17.90"E Longitude AAQ2 - Near Security Barak: 21°41'2.88"N Latitude & 85°25'56.46"E Longitude		
Instrument Used	CO Analyser		

Date of Sampling	CO (mg/m3)	
	AAQ1	AAQ2
03.06.2024	0.53	0.50
06.06.2024	0.54	0.52
10.06.2024	0.56	0.54
13.06.2024	0.58	0.55
17.06.2024	0.61	0.58
20.06.2024	0.54	0.51
24.06.2024	0.55	0.52
27.06.2024	0.45	0.42
Max	0.61	0.58
Min	0.45	0.42
Avg	0.54	0.51
NAAQ* Standard	4	
Methods of Analysis	IS: 5182 (Part- 10)	

Verified By

Authorized By

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 - Khurdha



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Report No- GFAPL/24-25/SMA/028

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E AAQ4- Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E		
Instrument Used	CO Analyser		

Date of Sampling	CO (mg/m3)	
	AAQ3	AAQ4
03.06.2024	0.36	0.34
06.06.2024	0.38	0.35
10.06.2024	0.40	0.37
13.06.2024	0.42	0.40
17.06.2024	0.44	0.42
20.06.2024	0.40	0.38
24.06.2024	0.42	0.40
27.06.2024	0.30	0.26
Max	0.44	0.42
Min	0.30	0.26
Avg	0.39	0.36
NAAQ* Standard	4	
Methods of Analysis	IS: 5182 (Part- 10)	

Verified By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Chief Analyst
Miss. Arti Sahoo

Authorized By

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Technical Manager
Mr. S.K. Panda

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

Report No- GFAPL/24-25/SMA/029

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler		

Location Code	Sampling Location	Date of Sampling	O ₃ ($\mu\text{g}/\text{m}^3$)	NH ₃ ($\mu\text{g}/\text{m}^3$)
AAQ-1	Near Entry Gate	17.06.2024	11.6	27.2
AAQ-2	Near Security Barak	17.06.2024	10.2	<20.0
AAQ-3	Village Anara	17.06.2024	<8.0	25.4
AAQ-4	Village Raigad	17.06.2024	<8.0	<20.0
NAAQ* Standard			100	400
Methods of Analysis			IS:5182 (Part-9)	IS:5182 (Part-25)

Verified By

Authorized By

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

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

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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/SMA/030

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler		

Location code	Sampling Location	Date of Sampling	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)
AAQ-1	Near Entry Gate	17.06.2024	<0.06	<0.6	<0.44	<5	<1
AAQ-2	Near Security Barak	17.06.2024	<0.06	<0.6	<0.44	<5	<1
AAQ-3	Village Anara	17.06.2024	<0.06	<0.6	<0.44	<5	<1
AAQ-4	Village Raigad	17.06.2024	<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)

Verified By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Miss. H. S. Sahoo

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Authorized By

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Mr. S. K. 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



Report No- GFAPL/24-25/SMA/031

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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	Date of Sampling	18.06.2024
Instrument Used	Sound Level Meter		

Sl. No.	Locations	Day Time	Night Time
		Results in dB(A)	
1	Near Entry Gate; Latitude: 21°41'13.17"N & Longitude: 85°26'17.90"E	67.9	61.8
2	Near Security Barak; Latitude: 21°41'2.88"N & Longitude: 85°25'56.46"E	66.1	54.2
Industrial Zone permissible limits as per CPCB Norms		Day Time – 75 dB(A)	Night Time – 70 dB(A)

Verified By

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

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

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Mail Id: greenforceassociates@gmail.com



Report No- GFAPL/24-25/SMA/032

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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	Date of Sampling	18.06.2024
Instrument Used	Sound Level Meter		

S. No.	Locations	Day Time	Night Time
		Results in dB(A)	
1	Near W.Bridge-1; Latitude: 21°40'67.60"N & Longitude: 85°26'45.20"E	68.6	62.9
2	Near W.Bridge-2; Latitude: 21°40'55.60"N & Longitude: 85°26'16.20"E	67.9	60.7
Industrial Zone permissible limits as per CPCB Norms		Day Time – 75 dB(A)	Night Time –70 dB(A)

Verified By

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

Authorized By

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Technical Manager
BHUBANESWAR, ODISHA
M. 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



Report No- GFAPL/24-25/SMA/033

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 (RDS)		

Sl. No.	Name of Location	Coordinates of Location	Date of Sampling	Result
1	Near W.Bridge - 1	Lat: 21°40'67.60"N Long: 85°26'45.20"E	18.06.2024	738.6
2	Near W.Bridge - 2	Lat: 21°40'55.60"N Long: 85°26'16.20"E	18.06.2024	704.6
Fugitive Standard				1200
Methods of Analysis			IS:5182 (Part-4)	

Verified By

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CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
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,
Baramunda, Bhubaneswar, Dist - Khurda

✉ Mail Id: greenforceassociates@gmail.com



Report No- GFAPL/24-25/SMA/034

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	20.06.2024
Sampling Location & Coordinates	ST1- Stack (ESP 1 connected to TG) ST2- Stack (ESP 2 connected to TG)		
Instrument Used	Stack monitoring Kit; Vacuum Pump; Pyrometer		

Sl. No.	Items	Testing Method	As per CTO Standard	ST1	ST2
01	Flue gas Temperature in K	IS-11255 (PART-3) 1985, (RA-2013)	---	369.0	375.0
02	Velocity in m/sec	IS-11255 (PART-3) 1985, (RA-2013)	---	17.54	16.83
03	PM (mg/Nm ³)	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	30	27.4	29.6
04	SO ₂ (mg/Nm ³)	IS-11255(PART-2) 1985, (RA-2019)	600	29.6	35.6

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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
MA S K Parhi

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

Report No- GFAPL/24-25/SMA/034

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	20.06.2024
Sampling Location & Coordinates	ST1- Stack (ESP 1 connected to TG) ST2- Stack (ESP 2 connected to TG)		
Instrument Used	Stack monitoring Kit; Vacuum Pump; Pyrometer		

Sl. No	Items	Testing Method	As per CTO Standard	ST1	ST2
01	NOx (mg/Nm ³)	IS-11255(PART-2) 1985	300	33.8	44.2

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GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Chief Analyst
Miss. Arti Sahoo

Note:

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TECHNICAL MANAGER
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Bhubaneswar, Odisha
Technical Manager
Mr. S.K. Parhi

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Report No- GFAPL/24-25/SMA/035

Issued Date- 04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	24.06.2024
Sampling Location	STP OUTLET		

Sl.No.	Parameter	Testing Methods	Unit	Standard as per- MoEFCC 13 th October 2017	STP
01	pH Value @250C	APHA 24th ED 4500 H+B:2023	--	6.5-9.0	7.24
02	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	--	136
03	Total Suspended Solids(TSS)	APHA 24th ED 2540-D: 2023	mg/l	<50	12
04	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	--	<1.0
05	Biological Oxygen Demand	IS 3025 (PART 44) : 1993 REA-2009	mg/l	20	<2.0
06	Chemical Oxygen Demand	APHA 24th ED 5220 C:2023	mg/l	--	10

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GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Miss. Arti Sahoo

TECHNICAL MANAGER
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Bhubaneswar, Odisha
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Report No- GFAPL/24-25/SMA/035

Issued Date- 04.07.2024

TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	24.06.2024
Sampling Location	STP OUTLET		

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

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Chief Analyst
Bhubaneswar, Odisha
Miss. Arti Sahoo

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Technical Manager
Mr. S.K. Parhi

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Report No-GFAPL/24-25/ SMA /036

Issued Date-04.07.2024

TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; Dist- Keonjhar, Odisha.		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	24.06.2024
Sampling Location & Coordinates	SW: Brahmani nala; Latitude: 21°41'14.10"N & Longitude: 85°25'49.19"E		

Sl.No.	Parameter	Testing Methods	Unit	Standard asper IS-2296 Class-C	SW
1.	Colour	IS 3025: (Part 4)- 1983	Hazen	300	<5.0
2.	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	<1.0
3.	pH	APHA 24th ED 4500- H+B:2023	---	6.5-8.5	7.42
4.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	196.8
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	147.0
6.	Chloride(as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	19.0
7.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05
9.	Iron(as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	50	0.4
10.	Sulfate(asSO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	7.2
11.	Fluoride(as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	0.11

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Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW
12	Oil & Grease (max)	IS 3025 PART 39-1991 RA-2003	mg/l	0.1	<1.0
13	Dissolved oxygen (min)	APHA 24th ED 4500 O-C:2023	mg/l	4	6.1
14	BOD (3)days at 27°C (max)	IS 3025 (PART 44): 1993 REA-2009	mg/l	3.0	2.8
15	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	---	18

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

Authorized By

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

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Report No-GFAPL/24-25/ SMA /036

Issued Date-04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; Dist- Keonjhar, Odisha.		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	24.06.2024
Sampling Location & Coordinates	SW: Brahmani nala; Latitude: 21°41'14.10"N & Longitude: 85°25'49.19"E		

Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW
1.	Nitrate (as NO ₃)	APHA 24th ED 4500-NO ₃ -B: 2023	mg/l	50	1.88
2.	Phenolic Compounds as C ₆ H ₅ OH	APHA 24th ED 5530 B,D:2023	mg/l	--	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	0.09
4.	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	<0.01
5.	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	0.16
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	0.2	<0.001
7.	Selenium (as Se)	APHA 3114 B	mg/l	0.05	<0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	<0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/100ml	5000	550

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CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Miss. Sushma Sahoo

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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



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Report No- GFAPL/24-25/ SMA/037

Issued Date-04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; Dist- Keonjhar, Odisha.		
Nature of Sampling	Ground Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	24.06.2024
Sampling Location & Coordinates	GW1-Inside Plant; Latitude: 21°40'58.14"N & Longitude: 85°26'9.43"E GW2-Village Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E GW3-Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW3
				AL	PL			
1.	Colour	IS 3025: (Part 4)- 1983	Hazen	5	15	<5.0	<5.0	<5.0
2.	Turbidity	APHA 24th ED: 2130-B - 2023	NTU	1	5	<1	<1	<1
3.	pH Value @250C	APHA 24th ED 4500-H+B:2023	--	6.5-8.5	NR	7.24	7.22	7.28
4.	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	500	2000	219.0	191.0	204.0
5.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	24.0	23.0	19.0
6.	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	132.0	113.0	127.0
7.	Calcium	APHA 24th Ed 3500- Ca-B:2023	mg/l	75	200	33.7	30.1	32.1
8.	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	11.7	10.2	11.4

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Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW2
				AL	PL			
9.	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	124	114	114
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	0.23	0.23	0.24
14.	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	4.4	4.1	4.6
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	--	--	14.8	14.5	11.6
19.	Potassium as K(max)	APHA 24th ED 3500-K-B	mg/l	--	--	1.6	1.5	1.2

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

Verified By

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

Authorized By

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Technical Manager
Mr. S.K. Parin

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Report No- GFAPL/24-25/ SMA/037

Issued Date-04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; Dist- Keonjhar, Odisha.		
Nature of Sampling	Ground Water		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	24.06.2024
Sampling Location & Coordinates	GW1-Inside Plant; Latitude: 21°40'58.14"N & Longitude: 85°26'9.43"E GW2-Village Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E GW3-Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW3
				AL	PL			
1.	Odour	APHA 24th ED: 2150-B - 2023	---	Agreeable	Agreeable	U/O	U/O	U/O
2.	Taste	APHA 24th ED: 2160-B 24th ED	---	Agreeable	Agreeable	AL	AL	AL
3.	Nitrate	APHA 24th ED 4500-NO3-E: 2023	mg/l	45	NR	1.82	1.62	1.54
4.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	<0.001	<0.001	<0.001
5.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	<0.03	<0.03	<0.03
6.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	0.19	0.22	0.21
7.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	<0.01	<0.01	<0.01
8.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.01	NR	<0.001	<0.001	<0.001
9.	Mercury (as Hg)	APHA 24th ED 3500 Hg: 2023	mg/l	0.001	NR	<0.001	<0.001	<0.001



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Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2	GW3
				AL	PL			
10.	Arsenic (as As)	APHA24th ED 3500As: 2023	mg/l	0.01	0.05	<0.001	<0.01	ND
11.	Aluminum (as Al)	APHA24th ED 3500Al: 2023	mg/l	0.03	0.2	<0.001	<0.01	ND
12.	Mineral Oil	APHA 24th ED5220B: 2023	mg/l	0.5	NR	<0.001	<0.01	ND
13.	Anionic Detergents (as MBAS)	APHA24th ED 5540 C: 2023	mg/l	0.2	1.0	<0.001	<0.01	ND
14.	Phenolic Compound (as C6H5OH)	APHA 24th ED 5530 B,D: 2023	mg/l	--	--	<0.001	<0.01	ND
15.	Total Coliforms	APHA 24th ED 9222- H: 2023	100/M PN	--	--	<0.001	<0.01	ND

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

Verified By

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

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GREENFORCE ASSOCIATES PRIVATE LIMITED
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BHUBANESWAR, ODISHA

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Mail Id: greenforceassociates@gmail.com

Report No-GFAPL/24-25/ SMA/038

Issued Date-04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; Dist- Keonjhar, Odisha.		
Nature of Sampling	Ground Water Level		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	18.06.2024		

Sl. No.	Locations	Result
1	GWL1-Inside Plant; Latitude: 21°40'58.14"N & Longitude: 85°26'9.43"E	14.2 m
2	GWL2-Village Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E	14.7 m
3	GWL3-Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E	15.1 m

Verified By

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

Authorized By

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

Note:

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- Total liability of our lab is limited to the invoiced amount.
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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



Report No- GFAPL/24-25/ SMA /039

Issued Date-04.07.2024

TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal; 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 and Rock
Date of Sampling	18.06.2024	Date of Receiving	19.06.2024
Date of Analysis	19.06.2024	Date of Complete	24.06.2024
Sampling Location & Coordinates	S1-Inside Plant; Latitude: 21°40'57.85"N & Longitude: 85°26'10.16"E S2-Village Raigad; Latitude: 21°41'0.25"N & Longitude: 85°19'20.16"E S3-Village Anra; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E		

Sl. No.	Parameters	Testing Methods	Unit	Analysis Results		
				S-1	S-2	S-3
1.	pH	--	---	6.22	6.14	6.28
2.	Organic Carbon	IS: 2720(Part-26)-1987	%	0.92	1.44	1.48
3.	Moisture content	IS: 2720(Part-22)-1972	%	6.6	6.5	6.7
4.	Specific Gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.71	2.68	2.69
5.	Sulfate	IS: 2720(Part-27)-1977	mg/Kg	0.98	128	130

Verified By

[Signature]

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

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--1 of 2--

Authorized By

[Signature]

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

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

Report No- GFAPL/24-25/ SMA /039

Issued Date-04.07.2024

TEST REPORT

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Sl. No.	Parameters	Testing Methods	Unit	Analysis Results		
				S-1	S-2	S-3
1.	Colour	GFAPL/SOP/Soil & Rock/01-23	---	Brown	Brown	Brown
2.	Electrical conductivity	IS:14767: 2000	µs/cm	202	188	178
3.	Soil Texture	GFAPL/SOP/Soil & Rock/02-23	---	Sandy loamy	Sandy Clay loamy	Sandy Clay loamy
4.	Bulk Density	GFAPL/SOP/Soil & Rock/03-23	gm/cc	1.35	1.28	1.31
5.	Calcium as Ca	IS: 2720(Part-23)	mg/kg	448	395	382
6.	Magnesium as Mg	GFAPL/SOP/Soil & Rock/04-23	mg/kg	228	198	176
7.	Nitrogen as N	IS:14684: 1999	kg/hect	68	114	105
8.	Phosphorus	GFAPL/SOP/Soil & Rock/05-23	kg/hect	30	38	34
9.	Potassium	GFAPL/SOP/Soil & Rock/06-23	mg/kg	178	156	142
10.	Chloride	GFAPL/SOP/Soil & Rock/07-23	mg/kg	98	102	110
11.	Manganese as Mn	GFAPL/SOP/Soil & Rock/08-23	mg/kg	9.86	5.84	6.02
12.	Iron	GFAPL/SOP/Soil & Rock/09-23	%	2.78	1.56	1.42

Verified By: CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Miss. Arti Sahoo

Note:

Authorized By: TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Mr. S.K. Parida

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