

ENVIRONMENT MONITORING REPORT
OF
MONTH DECEMBER-2022

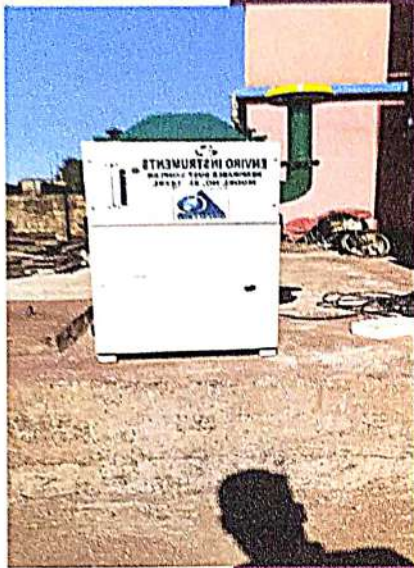


Client- M/s SREE METALIKS LTD.
Address- Anra, Upper Raigoda, Banspal Dist-
Keonjhar, Odisha

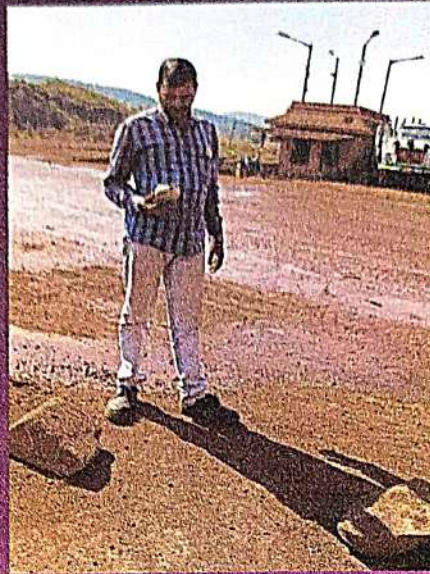


Monitored By - BIOMES LABORATORY
Address- Plot-225, Chandrasekharpur,
Bhubaneswar, Odisha-751016
NAHL Certificate No:- TC10049

PHOTOGRAPHS OF ENVIRONMENT MONITORING



PHOTOGRAPHS OF ENVIRONMENT MONITORING





M/s BIOMES

ENVIRONMENTAL CONSULTANT & NABL (ISO/IEC 17025:2017) ACCREDITED LABORATORY

[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]



TC-10049

Report No -BMS/22/SML- Anra/448

Issued Date-07.01.2023

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ1-Near Entry Gate: 21°41'13.17"N Latitude & 85°26'17.90"E Longitude
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

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 ($\mu\text{g}/\text{m}^3$)
01.12.2022	69.4	35.6	12.8	20.6
05.12.2022	71.2	37.2	13.2	21.4
08.12.2022	68.6	35.1	12.2	20.2
12.12.2022	66.2	34.1	11.4	18.6
15.12.2022	69.8	35.7	11.8	19.4
19.12.2022	72.4	38.1	12.4	19.8
22.12.2022	70.6	37.2	12.6	20.6
26.12.2022	71.8	37.8	13.2	21.6
29.12.2022	73.4	38.8	12.8	20.8
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)




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END OF REPORT

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Plot No. 225, District Centre, Chandrasekharapur, Bhubaneswar – 751016

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Contact: 0674-2747444 / 797808808

Report No –BMS/22/SML- Anra/449

Issued Date-07.01.2023

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ2-Near Security Barak:21°41'2.88"N Latitude & 85°25'56.46"E Longitude
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

Date Of Sampling	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)
01.12.2022	66.2	33.9	11.2	19.2
05.12.2022	67.1	34.5	11.8	19.4
08.12.2022	64.6	33.2	10.6	18.4
12.12.2022	62.5	31.8	10.2	17.6
15.12.2022	67.6	34.3	10.8	18.2
19.12.2022	66.1	33.6	11.5	18.6
22.12.2022	68.4	35.2	11.8	19.2
26.12.2022	70.2	36.4	12.2	20.4
29.12.2022	67.6	34.8	11.4	19.8
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)




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[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]

Report No –BMS/22/SML- Anra/450

Issued Date-07.01.2023

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling By	BIOME's Representative
Instrument Used	CO Analyser

Name of Location	A1 Near Entry Gate	A2 Near Security Barak
Date Of Sampling	CO (mg/m ³)	CO (mg/m ³)
01.12.2022	0.6	0.56
05.12.2022	0.61	0.57
08.12.2022	0.6	0.54
12.12.2022	0.57	0.52
15.12.2022	0.59	0.55
19.12.2022	0.59	0.54
22.12.2022	0.6	0.56
26.12.2022	0.62	0.58
29.12.2022	0.63	0.57
NAAQ* Standard	4	4
Methods of Analysis	IS: 5182 (Part- 10)	IS:5182 (Part-10)



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Report No –BMS/22/SML- Anra/481

Issued Date-07.01.2023

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metallks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler, Benzene Sampler
Date of Sampling	22.12.2022

Name of Location	Location	O ₃ (µg/m ³)	NH ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	C ₆ H ₆ (µg/m ³)	BaP (ng/m ³)
AAQ-1	AQ1-Near Entry Gate	9.2	26.8	<0.06	<0.6	<0.44	<5	<1
AAQ-2	AQ2-Near Security Barak	8.8	24.2	<0.06	<0.6	<0.44	<5	<1
	NAAQ* Standard	100	400	1	20	6	5	1
	Methods of Analysis	IS:5182 (Part-9)	IS:5182 (Part-25)	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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Report No –BMS/22/SML-Anra/451

Issued Date-07.01.2023

FUGITIVE MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	AAQ-Fugitive Dust Sample
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler

Sl. No.	Name of Location	Latitude	Longitude	Date of Sampling	Result
1	Near W.Bridge-1	21°40'67.60"N	85°26'45.20"E	13.12.2022	872.5
2	Near W.Bridge-2	21°40'55.60"N	85°26'16.20"E	13.12.2022	828.4
Fugitive Standard					1200
Methods of Analysis					IS:5182 (Part-24)



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Report No –BMS/22/SML-Anra/452

Issued Date-07.01.2023

AMBIENT NOISE LEVEL MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Noise
Sampling Location	N1-Near Entry Gate; Latitude 21°41'13.17"N & Longitude 85°26'17.90"E N2-Near Security Barak; Latitude 21°41'2.88"N & Longitude 85°25'56.46"E
Sampling By	BIOME's Representative
Instrument Used	Noise Meter
Date of Sampling	20.12.2022
Date of Receiving	21.12.2022

Day time Noise monitoring results Noise Level in dB (A)		
TIME (6.00AM to 10.00PM)	N-1	N-2
Avg.	69.1	63.2
Standard as per CPCB	75	75
Night time Noise monitoring results Noise Level in dB (A)		
TIME (10.00PM to 6.00AM)	N-1	N-2
Avg.	58.6	48.8
Standard as per CPCB	70	70




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Report No –BMS/22/SML-Anra/453

Issued Date-07.01.2023

WORK ZONE NOISE LEVEL MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Work Zone Noise
Sampling Location	N1- Near W.Bridge-1; Latitude 21°40'67.60"N & Longitude 85°26'45.20"E N2- Near W.Bridge-2; Latitude 21°40'55.60"N & Longitude 85°26'16.20"E
Sampling By	BIOME's Representative
Instrument Used	Noise Meter
Date of Sampling	20.12.2022
Date of Receiving	21.12.2022

Day time Noise monitoring results Noise Level in dB (A)		
TIME (6.00AM to 10.00PM)	N-1	N-2
Avg.	71.2	70.8
Standard as per CPCB	75	
Night time Noise monitoring results Noise Level in dB (A)		
TIME (10.00PM to 6.00AM)	N-1	N-2
Avg.	66.2	65.6
Standard as per CPCB	70	




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Report No –BMS/22/SML- Anra /454

Issued Date-07.01.2023

GROUND WATER MONITORING TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	GROUND WATER
Sampling Location	GW1- Inside Colony; Latitude 21°59'34.27"N & Longitude 85°19'26.87"E GW2- Village Rugudihi; Latitude 21°59'50.80"N & Longitude 85°19'20.16"E GW3- Village Lohidapada; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E
Sampling By	BIOME's Representative
Date of Sampling	20.12.2022
Date of Receiving	21.12.2022
Date of Analysis	21.12.2022- 26.12.2022

ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-10500 (2012)	GW1	GW2	GW3
1	pH	---	6.5-8.5	7.12	7.22	7.18
2	Colour	Hazen	5 (15)	<5.0	<5.0	<5.0
3	Turbidity	NTU	5(10)	<1	<1	<1
4	Chloride (as Cl)(max)	mg/l	250 (1000)	24.0	19.0	22.0
5	Total Dissolved Solid	mg/l	500 (2000)	220.0	188.0	201.0
6	Total Hardness (as CaCO ₃) (max)	mg/l	200 (600)	130.0	114.0	122.0
7	Iron (as Fe) (max)	mg/l	0.3 (NR)	0.26	0.27	0.25

8	Calcium (as Ca) (max)	mg/l	75 (200)	32.5	28.9	31.3
9	Magnesium (as Mg) (max)	mg/l	30 (100)	11.9	10.2	10.7
10	Sulfate (as SO ₄) (max)	mg/l	200(400)	3.8	2.7	2.9
11	Nitrate (as NO ₃) (max)	mg/l	45 (NR)	1.78	1.14	1.28
12	Alkalinity (as CaCO ₃) (max)	mg/l	200 (600)	120.00	108.00	114.00
13	Fluoride (as F) (max)	mg/l	1.0(1.5)	<0.05	<0.05	<0.05
14	Total Chromium as Cr(max)	mg/l	0.05(NR)	<0.05	<0.05	<0.05
15	Sodium as Na(max)	mg/l	---	14.8	11.8	13.8
16	Potassium as K(max)	mg/l	---	1.1	0.9	1

End of test report




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Report No -BMS/22/SML- Anra /455

Issued Date-07.01.2023

GROUND WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	GROUND WATER
Sampling Location	GW1- Inside Colony; Latitude 21°59'34.27"N & Longitude 85°19'26.87"E GW2- Village Rugudihi; Latitude 21°59'50.80"N & Longitude 85°19'20.16"E GW3- Village Lohidapada; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E
Sampling By	BIOME's Representative
Date of Sampling	20.12.2022
Date of Receiving	21.12.2022
Date of Analysis	21.12.2022- 26.12.2022

ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-10500 (2012)	GW1	GW2	GW3
17	Odour	---	Agreeable	AL	AL	AL
18	Taste	---	Agreeable	AL	AL	AL
19	Residual free Chlorine	mg/l	0.2 (1)	<0.2	<0.2	<0.2
20	Manganese (as Mn) (max)	mg/l	0.10 (0.3)	<0.05	<0.05	<0.05
21	Cadmium (as Cd) (max)	mg/l	0.003 (NR)	<0.001	<0.001	<0.001
22	Copper (as Cu) (max)	mg/l	0.05 (1.5)	<0.03	<0.03	<0.03
23	Zinc (as Zn) (max)	mg/l	5 (15)	<0.05	<0.05	<0.05
24	Lead (as Pb) (max)	mg/l	0.01 (NR)	<0.01	<0.01	<0.01

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25	Selenium (as Se) (max)	mg/l	0.01 (NR)	<0.001	<0.001	<0.001
26	Mercury (as Hg) (max)	mg/l	0.001 (NR)	<0.001	<0.001	<0.001
27	Cyanide (as CN) (max)	mg/l	0.05 (NR)	<0.2	<0.2	<0.2
28	Boron (as B) (max)	mg/l	0.5 (1.0)	<0.01	<0.01	<0.01
29	Arsenic (as As) (max)	mg/l	0.01(0.5)	<0.001	<0.001	<0.001
30	Mineral Oil	mg/l	0.5(NR)	ND	ND	ND
31	Aluminum (as Al) (max)	mg/l	0.03(0.2)	<0.01	<0.01	<0.01
32	Anionic Detergents (as MBAS)	mg/l	0.2(1.0)	ND	ND	ND
33	Phenolic Compound (as C ₆ H ₅ OH) (max)	mg/l	0.001 (0.002)	<0.001	<0.001	<0.001
34	Total Coliforms	MPN/100ml	Absent	<1.8	<1.8	<1.8

Note:-AL- Agreeable, NR-No Relaxation, ND- Not Detectable

End of test report




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Report No -BMS/22/SML- Anra/456

Issued Date-07.01.2023

SOIL QUALITY TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	SOIL
Sampling Location	SQ1- Inside Plant; Latitude 21°40'57.85"N & Longitude 85°26'10.16"E SQ2- Village Raigad; Latitude 21°41'0.25"N & Longitude 85°25'29.21"E SQ3- Village Anara; Latitude 21°41'20.01"N & Longitude 85°26'19.10"E
Sampling By	BIOME's Representative
Date of Sampling	20.12.2022
Date of Receiving	21.12.2022
Date of Analysis	21.12.2022-24.12.2022

ANALYSIS RESULT

Sl.No.	Parameters	Unit	Analysis Results		
			S-1 Plant Area	S-2 Village Rugudihi	S-3 Village Lohidapada
1	Colour	---	Brown	Brown	Brown
2	Moisture content	%	8.8	9.1	8.6
3	pH	---	6.14	6.34	6.38
4	Electrical conductivity (as EC)	micro s/cm	214	186	178
5	Soil Texture	---	Sandy loamy	Sandy loamy	Sandy loamy
6	Bulk Density	gm/cc	1.3	1.29	1.3
7	Calcium (as Ca)	mg/kg	454	402	384
8	Magnesium (as Mg)	mg/kg	228	188	182
9	Organic Carbon	%	1.28	1.54	1.56
10	Nitrogen (as N)	kg/hect	92	132	140



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[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]

11	Phosphorus (as p)	kg/hect	42	40	38
12	Potassium (as K)	mg/kg	192	184	176
13	Chloride(as Cl)	mg/kg	156	136	148
14	Manganese (as Mn)	mg/kg	10.8	4.9	4.8
15	Iron (as Fe)	%	2.64	1.42	1.3

****End of test report****



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Report No -BMS/22/SML- Anra/457

Issued Date-07.01.2023

SURFACE WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	SURFACE WATER
Sampling Location	SW1-Brahmani Nala; Latitude 21°41'14.10"N & Longitude 85°25'49.19"E
Sampling By	BIOME's Representative
Date of Sampling	20.12.2022
Date of Receiving	21.12.2022
Date of Analysis	21.12.2022-26.12.2022

ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SW1
1	pH	---	6.0-9.0	7.68
2	Colour	Hazen	300	<5.0
3	Turbidity	NTU	--	<1.0
4	Chloride (as Cl)	mg/l	600	21
5	Total Dissolved Solid	mg/l	1500	165
6	Chemical Oxygen Demand as COD	mg/l	--	8.0
7	Hexavalent Chromium (as Cr+6)	mg/l	0.05	<0.05

8	Fluoride (as F)	mg/l	1.5	0.06
9	Sulfate (as SO ₄)	mg/l	400	7.82
10	Iron (as Fe)	mg/l	0.5	0.44
11	Nitrate (as NO ₃)	mg/l	50	1.78

End of test report



Authorized Signatory

Note:

1. The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied.
2. Total liability of our lab is limited to the invoiced amount.
3. Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
5. Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

Report No –BMS/22/SML- Anra/458

Issued Date-07.01.2023

SURFACE WATER MONITORING TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda,Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	SURFACE WATER
Sampling Location	SW1- Brahmani nala; Latitude 21°41'14.10"N & Longitude 85°25'49.19"E
Sampling By	BIOME's Representative
Date of Sampling	20.12.2022
Date of Receiving	21.12.2022
Date of Analysis	21.12.2022-26.12.2022

ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SW1
12	Dissolved oxygen (min)	mg/l	4	6.5
13	Oil & Grease (max)	mg/l	--	ND
14	BOD (3) days at 27 ⁰ C (max)	mg/l	3.0	<2.0
15	Arsenic as As (max)	mg/l	0.2	<0.001
16	Lead as Pb (max)	mg/l	0.1	<0.01
17	Cadmium as Cd (max)	mg/l	0.01	<0.001
18	Copper as Cu (max)	mg/l	1.5	<0.03
19	Zinc as Zn(max)	mg/l	15	<0.05



M/s BIOMES

ENVIRONMENTAL CONSULTANT & NABL (ISO/IEC 17025:2017) ACCREDITED LABORATORY

[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]

20	Selenium as Se (max)	mg/l	0.05	<0.001
21	Cyanide as CN (max)	mg/l	0.05	<0.02
22	Phenolic Compounds as C ₆ H ₅ OH (max)	mg/l	0.005	<0.001
23	Total Coliform	MPN/100 ml	5000	310

End of test report



Authorized Signatory

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