

ENVIRONMENT MONITORING REPORT  
OF  
MONTH SEPTEMBER-2022



Client- M/s SREE METALIKS LTD.

Address- Anra, Upper Raigoda, Banspal Dist-  
Keonjhar, Odisha



**Monitored By - BIOMES LABORATORY**

**Address- Plot-225, Chandrasekharapur,**

**Bhubaneswar, Odisha-751016**

**NABL Certificate No:- TC10049**

# PHOTOGRAPHS OF ENVIRONMENT MONITORING



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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/210

Issued Date-07.10.2022

## 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/VO/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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NOx ( $\mu\text{g}/\text{m}^3$ )
01.09.2022	69.8	35.6	12.2	18.2
05.09.2022	66.5	33.9	11.6	17.5
08.09.2022	68.9	35.1	11.2	18.5
12.09.2022	70.5	36.9	11.8	19.2
15.09.2022	73.8	38.2	12.8	20.8
19.09.2022	76.4	40.7	13.4	21.6
22.09.2022	67.2	34.6	12.8	19.6
26.09.2022	64.2	33.5	11.8	18.4
29.09.2022	62.8	32.4	11.4	18.1
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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\*END OF REPORT\*

Note:

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

Email – biomes.bbsr@gmail.com, biomes.enviro@gmail.com

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Report No –BMS/22/SML-Aura/211

Issued Date-07.10.2022

## 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 <sup>3</sup> )	PM2.5 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
01.09.2022	60.2	31.2	11.2	17.3
05.09.2022	59.6	30.5	10.5	16.4
08.09.2022	61.4	32.4	9.8	15.9
12.09.2022	63.6	32.8	10.6	17.2
15.09.2022	67.2	34.6	11.4	18.6
19.09.2022	69.1	36.1	12.2	19.2
22.09.2022	62.5	33.1	11.8	17.5
26.09.2022	59.6	30.1	10.8	16.8
29.09.2022	58.5	29.8	10.2	16.2
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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Report No –BMS/22/SML-Anra/212

Issued Date-07.10.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metalliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Konjhar, 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 <sup>3</sup> )	CO (mg/m <sup>3</sup> )
01.09.2022	0.55	0.5
05.09.2022	0.52	0.48
08.09.2022	0.54	0.49
12.09.2022	0.55	0.5
15.09.2022	0.58	0.52
19.09.2022	0.59	0.53
22.09.2022	0.56	0.5
26.09.2022	0.55	0.48
29.09.2022	0.54	0.47
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/213

Issued Date-07.10.2022

## 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	Respirable Dust Sampler, Benzene Sampler
Date of Sampling	03.09.2022

Name of Location	Location	O <sub>3</sub> (µg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	Pb (µg/m <sup>3</sup> )	Ni (ng/m <sup>3</sup> )	As (ng/m <sup>3</sup> )	C <sub>6</sub> H <sub>6</sub> (µg/m <sup>3</sup> )	BaP (ng/m <sup>3</sup> )
AAQ-1	Near Entry Gate	<8.0	<20.0	<0.06	<0.6	<0.44	<5	<1
AAQ-2	Near Security Barak	<8.0	<20.0	<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/214

Issued Date-07.10.2022

## 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	20.09.2022	788.3
2	Near W.Bridge-2	21°40'55.60"N	85°26'16.20"E	30.09.2022	642.5
Fugitive Standard					1200
Methods of Analysis					IS:5182 (Part-24)



  
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Report No –BMS/22/SML.-Anra/215

Issued Date-07.10.2022

## 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	30.09.2022
Date of Receiving	01.10.2022

Day time Noise monitoring results Noise Level in dB (A)		
TIME (6.00AM to 10.00PM)	N-1	N-2
Avg.	66.9	61.8
Standard as per CPCB	75.0	
Night time Noise monitoring results Noise Level in dB (A)		
TIME (10.00PM to 6.00AM)	N-1	N-2
Avg.	56.2	44.6
Standard as per CPCB	70.0	



  
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Report No –BMS/22/SML-Anra/216

Issued Date-07.10.2022

## 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	30.09.2022
Date of Receiving	01.10.2022

Day time Noise monitoring results Noise Level in dB (A)		
TIME (6.00AM to 10.00PM)	N-1	N-2
Avg.	70.8	70.6
Standard as per CPCB	75.0	
Night time Noise monitoring results Noise Level in dB (A)		
TIME (10.00PM to 6.00AM)	N-1	N-2
Avg.	64.1	63.5
Standard as per CPCB	70.0	



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



Report No -BMS/22/SML-Anra/217

Issued Date-07.10.2022

## GROUND WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metalliks 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	GROUND WATER
Sampling Location	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
Sampling By	BIOME's Representative
Date of Sampling	26.09.2022
Date of Receiving	27.09.2022
Date of Analysis	27.09.2022- 30.09.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-10500 (2012)	GW1	GW2	GW3
1	pH	---	6.5-8.5	6.78	6.95	6.84
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)	14.0	15.0	15.0
5	Total Dissolved Solid	mg/l	500 (2000)	142.0	158.0	142.0
6	Total Hardness (as CaCO <sub>3</sub> ) (max)	mg/l	200 (600)	102.0	110.0	98.0
7	Iron (as Fe) (max)	mg/l	0.3 (NR)	0.24	0.24	0.21
8	Calcium (as Ca) (max)	mg/l	75 (200)	25.7	26.5	24.5

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9	Magnesium (as Mg) (max)	mg/l	30 (100)	9.2	10.7	9.0
10	Sulfate (as SO <sub>4</sub> ) (max)	mg/l	200(400)	2.20	2.40	2.1
11	Nitrate (as NO <sub>3</sub> ) (max)	mg/l	45 (NR)	1.04	1.1	0.98
12	Alkalinity (as CaCO <sub>3</sub> ) (max)	mg/l	200 (600)	95.00	98.00	92.00
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	---	8.8	9.2	9.3
16	Potassium as K(max)	mg/l	---	0.5	0.5	0.5

End of test report



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

Report No –BMS/22/SML-Anra/218

Issued Date-03.08.2022

## GROUND 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	GROUND WATER
Sampling Location	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
Sampling By	BIOME's Representative
Date of Sampling	26.09.2022
Date of Receiving	27.09.2022
Date of Analysis	27.09.2022- 30.09.2022

## 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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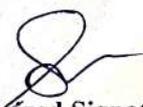
25	Selenium (as Se) (max)	mg/l	0.01 (NR)	<0.001	<0.001	<0.001
26	Mercury (as Hg) (max)	mg/l	0.001 (NR)	<0.001	<0.001	<0.001
27	Cyanide (as CN) (max)	mg/l	0.05 (NR)	<0.2	<0.2	<0.2
28	Boron (as B) (max)	mg/l	0.5 (1.0)	<0.01	<0.01	<0.01
29	Arsenic (as As) (max)	mg/l	0.01(0.5)	<0.001	<0.001	<0.001
30	Mineral 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 <sub>6</sub> H <sub>5</sub> 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/219

Issued Date-07.10.2022

## 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 Anra; Latitude 21°41'20.01"N & Longitude 85°26'19.10"E
Sampling By	BIOME's Representative
Date of Sampling	22.09.2022
Date of Receiving	23.09.2022
Date of Analysis	23.09.2022-26.09.2022

## ANALYSIS RESULT

Sl.No.	Parameters	Unit	Analysis Results		
			S-1 Plant Area	S-Village Rugudihi	S-3 Village Lohidapada
1	Colour	---	Brown	Brown	Brown
2	Moisture content	%	11.2	12.1	11.8
3	pH	---	6.3	6.32	6.22
4	Electrical conductivity (as EC)	micro s/cm	192	172	170
5	Soil Texture	---	Sandy loamy	Sandy Clay loamy	Sandy Clay loamy
6	Bulk Density	gm/cc	1.3	1.27	1.28
7	Calcium (as Ca)	mg/kg	425	355	295
8	Magnesium (as Mg)	mg/kg	216	190	148
9	Organic Carbon	%	1.42	1.68	1.66

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10	Nitrogen (as N)	kg/hcc	128	164	168
11	Phosphorus (as p)	kg/hcc	48	44	42
12	Potassium (as K)	mg/kg	192	172	165
13	Chloride(as Cl)	mg/kg	122	106	98
14	Manganese (as Mn)	mg/kg	9.6	4.2	4.5
15	Iron (as Fe)	%	2.68	1.48	1.36

End of test report



  
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Report No -BMS/22/SML-Anra/220

Issued Date-07.10.2022

## 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/VO/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	22.09.2022
Date of Receiving	24.09.2022
Date of Analysis	24.09.2022-26.09.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SWI
1	pH	---	6.0-9.0	7.36
2	Colour	Hazen	300	40
3	Turbidity	NTU	--	4.6
4	Chloride (as Cl)	mg/l	600	14
5	Total Dissolved Solid	mg/l	1500	112
6	Chemical Oxygen Demand as COD	mg/l	--	8.0
7	Hexavalent Chromium (as Cr+6)	mg/l	0.05	<0.05

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8	Fluoride (as F)	mg/l	1.5	0.06
9	Sulfate (as SO <sub>4</sub> )	mg/l	400	4.9
10	Iron (as Fe)	mg/l	0.5	0.38
11	Nitrate (as NO <sub>3</sub> )	mg/l	50	1.42

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Report No –BMS/22/SML-Anra/221

Issued Date-07.10.2022

## SURFACE WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Konjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	SURFACE WATER
Sampling Location	SWI- Brahmani nala; Latitude 21°41'14.10"N & Longitude 85°25'49.19"E
Sampling By	BIOME's Representative
Date of Sampling	22.09.2022
Date of Receiving	24.09.2022
Date of Analysis	24.09.2022-26.09.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SWI
12	Dissolved oxygen (min)	mg/l	4	6.5
13	Oil & Grease (max)	mg/l	--	ND
14	BOD (3) days at 27°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

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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 <sub>6</sub> H <sub>5</sub> OH (max)	mg/l	0.005	<0.001
23	Total Coliform	MPN/10 0 ml	5000	570

End of test report



  
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