

ENVIRONMENT MONITORING REPORT
OF
MONTH MARCH-2023



Client- M/s SREE METALIKS LTD.

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



Monitored By - EHS360 Labs Pvt. Ltd.

Address- No.8,50th Street,7th Avenue,

Chennai, Tamil Nadu

NABL Certificate No:- TC-9583

PHOTOGRAPHS OF ENVIRONMENT MONITORING



TEST REPORT

Report No	EHS360/TR/2022-23/015	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/015
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location & Coordinates	Near Entry Gate: 21°41'13.17"N Latitude & 85°26'17.90"E Longitude		

Date Of Sampling	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)
02.03.2023	82.5	42.4	16.4	25.8	0.71
06.03.2023	85.6	45.7	16.8	26.2	0.73
09.03.2023	83.7	43.4	15.9	24.9	0.7
13.03.2023	87.2	47.4	16.6	26.2	0.72
16.03.2023	72.6	36.8	13.6	18.2	0.55
20.03.2023	74.2	37.4	14.2	19.2	0.58
23.03.2023	78.2	40.4	15.2	25.6	0.65
27.03.2023	73.4	37.8	14.4	22.1	0.62
30.03.2023	69.8	35.2	13.6	20.2	0.6
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS: 5182 (Part- 10)

Note: BDL –NAAQ – National Ambient Air Quality; Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

*****End of Report*****

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Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/0016	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/016
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location & Coordinates	Near Security Barak 21°41'2.88"N Latitude & 85°25'56.46"E Longitude		

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 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
02.03.2023	78.5	40.2	13.8	23.8	0.65
06.03.2023	81.6	42.4	14.4	24.2	0.67
09.03.2023	80.4	41.1	13.8	22.8	0.64
13.03.2023	83.4	43.4	14.6	24.6	0.67
16.03.2023	70.1	31.2	12.4	16.6	0.51
20.03.2023	72.4	36.5	13.6	17.8	0.55
23.03.2023	77.4	39.2	13.2	22.4	0.6
27.03.2023	70.2	35.6	12.8	20.4	0.58
30.03.2023	66.7	33.7	12.2	18.3	0.56
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)	IS:5182 (Part-10)

Note: NAAQ – National Ambient Air Quality; Instrument Used: Respirable Dust Sampler (RDS), fine Particulate Sampler (FPS).

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Name: Santhosh Kumar A
Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/017	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/017
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
		Sampling Date	20.02.2023

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	12.6	36.8	<0.06	<0.6	<0.44	<5	<1
AAQ-2	AQ2-Near Security Barak	11.8	33.6	<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)

Note: BDL –NAAQ – National Ambient Air Quality; Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

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Name: Santhosh Kumar A
Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/018	Report Date	06.04.2023
Issued To	M/s.Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/018
Sample Description	Ambient Noise	Sample Collected Date	21.03.2023
Qty. of Sample Received	-	Sample Received On	22.03.2023
Sample Condition	Good	Test Commenced On	22.03.2023
Sampling Location	-	Test Completed On	24.03.2023

S.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	69.4	62.6
2	Near Security Barak; Latitude: 21°41'2.88"N & Longitude: 85°25'56.46"E	65.6	52.8
Industrial Zone permissible limits as per TNPCB Norms		Day Time – 75 dB(A)	Night Time – 70 dB(A)

Note: Instrument Used: Sound Level Meter.

REMARKS: The above sample complies with TNPCB norms with respect to the above tested Parameters.

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Name: Santhosh Kumar A

Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/019	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/019
Sample Description	Work Zone Noise	Sample Collected Date	21.03.2023
Qty. of Sample Received	-	Sample Received On	22.03.2023
Sample Condition	Good	Test Commenced On	22.03.2023
Sampling Location	-	Test Completed On	24.03.2023

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	71.7	68.6
2	Near W.Bridge-2; Latitude: 21°40'55.60"N & Longitude: 85°26'16.20"E	71.1	66.9
Industrial Zone permissible limits as per TNPCB Norms		Day Time – 75 dB(A)	Night Time – 70 dB(A)

Note: Instrument Used: Sound Level Meter.

REMARKS: The above sample complies with TNPCB norms with respect to the above tested Parameters.

*****End of Report*****



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Name: Santhosh Kumar A
Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/020	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Description	Fugitive Dust Sample	Sample Code	EHS360/020
		Sample Condition	Good

Sl. No.	Name of Location	Coordinates of Location	Date of Sampling	Result
1	Near W.Bridge - 1	Lat: 21°40'67.60"N Long:21°40'55.60"N	21.03.2023	972.5
2	Near W.Bridge - 2	Lat: 85°26'45.20"E Long: 85°26'16.20"E	21.03.2023	941.6
Fugitive Standard				1200
Methods of Analysis			IS:5182 (Part-24)	

Instrument Used: Respirable Dust Sampler (RDS)

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Name: Santhosh Kumar A

Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/021	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Stack Emission Monitoring	Sample Code	EHS360/021
Sample Description	Flue Gas	Sample Condition	Good
Name of Location	Stack Attached To DRI		
Date of Sampling	21.03.2023	Date of Analysis	24.03.2023
Date of Receiving	22.03.2023	Date of Complete	24.03.2023

Sl. No.	Parameters	Test Method	Results
1	Flue Gas Temp. in K	IS-11255 (PART-3) 1985, (RA-2013)	370
2	Average flue gas Velocity in m/sec	IS-11255 (PART-3) 1985, (RA-2013)	17.01
3	Particulate Matter (PM) in mg/Nm ³	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	42.6
4	SO ₂ in mg/Nm ³	IS-11255(PART-2) 1985, (RA-2019)	22.8
5	NO _x in mg/Nm ³	IS-11255(PART-2) 1985	35.2

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Name: Santhosh Kumar A

Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/022	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 10500	Sample Drawn by	Laboratory
Sample Name	Ground Water	Sample Code	EHS360/022
Sample Description	GW	Sample Condition	Good
Date of Sampling	21.03.2023	Date of Analysis	24.03.2023
Date of Receiving	22.03.2023	Date of Complete	28.03.2023
Locations	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	Parameters	Unit	Standard as per IS-10500 (2012)	Result		
				GW1	GW2	GW3
01	pH	---	6.5-8.5	7.24	7.32	7.26
02	Colour	Hazen	5 (15)	<5.0	<5.0	<5.0
03	Turbidity	NTU	5(10)	<1	<1	<1
04	Chloride (as Cl)(max)	mg/l	250 (1000)	28.0	22.0	25.0
05	Total Dissolved Solid	mg/l	500 (2000)	234.0	208.0	212.0
06	Total Hardness (as CaCO ₃) (max)	mg/l	200 (600)	138.0	124.0	130.0
07	Iron (as Fe) (max)	mg/l	0.3 (NR)	0.28	0.26	0.26
08	Calcium (as Ca) (max)	mg/l	75 (200)	34.1	31.7	32.5
09	Magnesium (as Mg) (max)	mg/l	30 (100)	12.9	10.9	11.9
10	Sulfate (as SO ₄) (max)	mg/l	200(400)	4.2	3.1	3.3
11	Nitrate (as NO ₃) (max)	mg/l	45 (NR)	1.72	1.56	1.48
12	Fluoride as F	mg/l	1.0(1.5)	<0.05	<0.05	<0.05
13	Total Coliform	MPN/100ml	Absent	<1.8	<1.8	<1.8

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Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/022	Report Date	06.04.2023
Issued To	M/s Sree Metallks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metallks Ltd		
Sampling Method	IS 10500	Sample Drawn by	Laboratory
Sample Name	Ground Water	Sample Code	EHS360/022
Sample Description	GW	Sample Condition	Good
Date of Sampling	21.03.2023	Date of Analysis	24.03.2023
Date of Receiving	22.03.2023	Date of Complete	28.03.2023
Locations	GW1-Inside Plant; Latitude: 21°40'58.14"N & Longitude: 85°20'0.43"E GW2-Village Anara; Latitude: 21°41'20.01"N & Longitude: 85°20'19.10"E GW3-Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'20.93"E		

Sl. No	Parameters	Unit	Standard as per IS-10500 (2012)	Result		
				GW1	GW2	GW3
14	Total Chromium as Cr(max)	mg/l	0.05(NR)	<0.05	<0.05	<0.05
15	Sodium as Na(max)	mg/l	---	17.6	13.6	15.7
16	Potassium as K(max)	mg/l	---	1.3	1.1	1.2
17	Odour	---	Agreeable	U/O	U/O	U/O
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)	0.22	0.21	0.10
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)	0.24	0.16	0.2
24	Lead (as Pb) (max)	mg/l	0.01 (NR)	<0.01	<0.01	<0.01

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Name: Santhosh Kumar A
Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/022	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 10500	Sample Drawn by	Laboratory
Sample Name	Ground Water	Sample Code	EHS360/022
Sample Description	GW	Sample Condition	Good
Date of Sampling	21.03.2023	Date of Analysis	24.03.2023
Date of Receiving	22.03.2023	Date of Complete	28.03.2023
Locations	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	Parameters	Unit	Standard as per IS-10500 (2012)	Result		
				GW1	GW2	GW3
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 Compounds (as C6H5OH)	mg/l	0.001 (0.002)	<0.001	<0.001	<0.001
34	Selenium (as Se) (max)	mg/l	0.01 (NR)	<0.001	<0.001	<0.001

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A-S7

Name: Santhosh Kumar A
Designation: Quality Manager



LABS

TEST REPORT

Report No	EHS360/TR/2022-23/023	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 2296	Sample Drawn by	Laboratory
Sample Name	Surface Water	Sample Code	EHS360/0023
Sample Description	SW	Sample Condition	Good
Date of Sampling	21.03.2023	Date of Analysis	24.03.2023
Date of Receiving	22.03.2023	Date of Complete	28.03.2023
Locations	Brahmani nala; Latitude: 21°41'14.10"N & Longitude: 85°25'49.19"E		

Sl. No	Parameters	Unit	Standard as per IS-2296 Class-C	Result
				SW
01	pH	—	6.0-9.0	7.7
02	Colour	Hazen	300	<5.0
03	Turbidity	NTU	—	<1.0
04	Chloride (as Cl)	mg/l	600	24
05	Total Dissolved Solid	mg/l	1500	170
06	Chemical Oxygen Demand as COD	mg/l	—	10.8
07	Hexavalent Chromium (as Cr+6)	mg/l	0.05	<0.05
08	Fluoride (as F)	mg/l	1.5	0.12
09	Sulfate (as SO ₄)	mg/l	400	9.2
10	Iron (as Fe)	mg/l	0.5	0.46
11	Nitrate (as NO ₃)	mg/l	50	1.88
12	Dissolved oxygen (min)	mg/l	4	5.9

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Name: Santhosh Kumar A
Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/023	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 2296	Sample Drawn by	Laboratory
Sample Name	Surface Water	Sample Code	EHS360/023
Sample Description	SW	Sample Condition	Good
Date of Sampling	21.03.2023	Date of Analysis	24.03.2023
Date of Receiving	22.03.2023	Date of Complete	28.03.2023
Locations	Brahmani nala; Latitude: 21°41'14.10"N & Longitude: 85°25'49.19"E		

Sl. No	Parameters	Unit	Standard as per IS-2296 Class-C	Result
				SW
13	Oil & Grease (max)	mg/l	-	ND
14	BOD (3) days at 270C (max)	mg/l	3.0	<2.0
15	Arsenic as As (max)	mg/l	0.2	<0.001
16	Lead as Pb	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	0.14
19	Zinc as Zn(max)	mg/l	15	0.19
20	Selenium as Se (max)	mg/l	0.05	<0.001
21	Cyanide as CN (max)	mg/l	0.05	<0.2
22	Phenolic Compounds as C6H5OH (max)	mg/l	0.005	<0.001
23	Total Coliform	MPN/ 100 ml	5000	210

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Name: Santhosh Kumar A

Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/024	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 2720	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/024
Sample Description	Soil	Sample Condition	Good
Date of Sampling	21.03.2023	Date of Analysis	24.03.2023
Date of Receiving	22.03.2023	Date of Complete	26.03.2023
Locations	Inside Plant; Latitude 21°40'57.85"N & Longitude: 85°26'10.16"E Village Raigad; Latitude: 21°41'0.25"N & Longitude: 85°19'20.16"E Village Anra ; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E		

Sl. No	Parameters	Unit	Result		
			S1	S2	S3
01	Colour	—	Brown	Brown	Brown
02	Moisture content	%	6.8	6.9	7.1
03	pH	—	6.28	6.4	6.47
04	Electrical Conductivity (as EC)	micro s/cm	208	194	180
05	Soil Texture	—	Sand Loamy	Clay Loamy	Clay Loamy
06	Bulk Density	gm/cc	1.3	1.3	1.28
07	Calcium as Ca	mg/kg	448	412	398
08	Magnesium as Mg	mg/kg	214	202	188
09	Organic Carbon	%	1.22	1.58	1.62
10	Nitrogen as N	kg/hect	0.86	128	148
11	Phosphorus(as p)	kg/hect	48	44	42
12	Potassium (as K)	mg/kg	188	190	182
13	Chloride (as Cl)	mg/kg	164	142	142
14	Manganese (as Mn)	mg/kg	10.8	4.2	3.8
15	Iron (as Fe)	%	2.56	1.28	1.24

*****End of Report*****



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A.S.K

Name : Santhosh Kumar A
Designation : Quality Manager