

**ENVIRONMENT MONITORING  
REPORT OF  
MONTH MARCH-2023**



**Client- M/s SREE METALIKS LTD.  
Address- Mukundapur, Parang Dist-  
Angul, Odisha**

**Monitored By - EHS360 Labs Pvt. Ltd.**

**Address- No.8,50<sup>th</sup> Street,7<sup>th</sup> Avenue,  
Chennai, Tamil Nadu**

**NABL Certificate No:- TC-9583**



## PHOTOGRAPHS OF ENVIRONMENT MONITORING





LABS

### TEST REPORT

Report No	EHS360/TR/2022-23/015	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Mukundapur, Parang, Dist-Anugul, 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 Admin Office: 20°52'6.54"N Latitude & 85°01'0.63"E Longitude		

Date Of Sampling	PM10 ( $\mu\text{g}/\text{m}^3$ )	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NOx ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
02.03.2023	83.5	42.8	16.8	26.5	0.66
06.03.2023	82.2	43.1	16.2	25.9	0.64
09.03.2023	85.5	46.2	17.4	26.8	0.66
13.03.2023	80.1	41.6	16.4	25.5	0.63
16.03.2023	69.6	35.2	12.6	18.4	0.48
20.03.2023	73.4	37.6	14.2	20.6	0.54
23.03.2023	79.6	40.8	15.9	22.6	0.6
27.03.2023	72.4	37.2	14.4	21.2	0.58
30.03.2023	70.1	35.3	13.2	18.8	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).

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

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Name: Santhosh Kumar A  
Designation: Quality Manager

**TEST REPORT**

Report No	EHS360/TR/2022-23/016	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Mukundapur, Parang, Dist-Anugul, 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 Main Gate: 20°52'5.71"N Latitude & 85°01'2.74"E Longitude		

Date Of Sampling	PM10 ( $\mu\text{g}/\text{m}^3$ )	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NOx ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
02.03.2023	85.4	46.8	18.6	28.6	0.71
06.03.2023	86.7	47.6	18.2	28.2	0.7
09.03.2023	89.5	50.2	19.2	29.2	0.72
13.03.2023	84.6	43.9	18.4	28.4	0.68
16.03.2023	71.6	36.2	13.8	19.2	0.5
20.03.2023	75.8	39.1	15.6	22.5	0.58
23.03.2023	81.8	43.1	17.4	24.2	0.64
27.03.2023	76.5	38.6	15.6	23.4	0.62
30.03.2023	73.2	37.6	14.4	20.2	0.6
<b>NAAQ* Standard</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>
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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*A.S.*

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, Mukundapur, Parang, Dist-Anugul, 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	23.03.2023

Name of Location	Location	O3 (µg/m³)	NH3 (µg/m³)	Pb (µg/m³)	Ni (ng/m³)	As (ng/m³)	C6H6 (µg/m³)	BaP (ng/m³)
AAQ-1	AQ1-Near Entry Gate	10.2	24.8	<0.06	<0.6	<0.44	<5	<1
AAQ-2	AQ2-Near Security Barak	10.8	24.4	<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, Mukundapur, Parang, Dist-Anugul, 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	23.03.2023
Qty. of Sample Received	-	Sample Received On	24.03.2023
Sample Condition	Good	Test Commenced On	24.03.2023
Sampling Location	-	Test Completed On	26.03.2023

S.No.	Locations	Day Time	Night Time
		Results in dB(A)	
1	Near Admin Office; Latitude: 20°52'6.54"N & Longitude 85°01'0.63"E	64.6	50.2
2	Near Main Gate; Latitude 20°52'5.71"N & Longitude: 85°01'2.74"E	68.8	58.6
<b>Industrial Zone permissible limits as per TNPCB Norms</b>		<b>Day Time – 75 dB(A)</b>	<b>Night Time – 70 dB(A)</b>

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/2022-23/019	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Mukundapur, Parang, Dist-Anugul, 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	23.03.2023
Qty. of Sample Received	-	Sample Received On	24.03.2023
Sample Condition	Good	Test Commenced On	24.03.2023
Sampling Location	-	Test Completed On	26.03.2023

S.No.	Locations	Day Time	Night Time
		Results in dB(A)	
1	Near DRI; Latitude: 20°52'6.74"N & Longitude: 85°0'51.38"E	71.5	68.4
2	Near W.Bridge; Latitude: 20°52'7.13"N & Longitude: 85°1'0.55"E	70.1	61.2
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 Metallks Ltd, Mukundapur, Parang, Dist-Anugul, Odisha.		
Customer Name	M/s Sree Metallks Ltd		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Fugitive Dust Sample	Sample Code	EHS360/020
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good

Sl. No.	Name of Location	Coordinates of Location	Date of Sampling	Result
1	Near DRI	Lat: 20°52'6.74"N Long: 85°0'51.38"E	24.03.2023	892.4
2	Near W.Bridge	Lat: 20°52'7.13"N Long: 85°1'0.55"E	24.03.2023	856.2
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, Mukundapur, Parang, Dist-Anugul, 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
Date of Sampling	23.03.2023	Date of Analysis	23.03.2023
Date of Receiving	23.03.2023	Date of Complete	26.03.2023
Sampling Location	Stack Attached to DRI; Lat:20°52'2.92"N & Long: 85°0'47.85"E		

Sl. No.	Parameters	Test Method	Results
1	Flue Gas Temp. in K	IS-11255 (PART-3) 1985, (RA-2013)	395
2	Average flue gas Velocity in m/sec	IS-11255 (PART-3) 1985, (RA-2013)	12.87
3	Particulate Matter (PM) in mg/Nm <sup>3</sup>	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	45.8
4	SO <sub>2</sub> in mg/Nm <sup>3</sup>	IS-11255(PART-2) 1985, (RA-2019)	53.4
5	NO <sub>x</sub> in mg/Nm <sup>3</sup>	IS-11255(PART-2) 1985	40.6
6	CO in %	IS-13270:1992,(RA-2019)	<0.2
7	CO <sub>2</sub> In %	IS-13270:1992,(RA-2019)	2.3
8	P bar in mmHg	-	738

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*A-S7*

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, Mukundapur, Parang, Dist-Anugul, 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	24.03.2023	Date of Analysis	25.03.2023
Date of Receiving	25.03.2023	Date of Complete	28.03.2023
Locations	Near Hanuman Temple; Latitude: 20°52'7.20"N & Longitude: 85°1'1.24"E		

Sl. No	Parameters	Unit	Standard as per IS-10500 (2012)	Result
				GW
01	pH	---	6.5-8.5	7.36
02	Colour	Hazen	5 (15)	<5.0
03	Turbidity	NTU	5(10)	<1
04	Chloride (as Cl)(max)	mg/l	250 (1000)	35.0
05	Total Dissolved Solid	mg/l	500 (2000)	291.0
06	Total Hardness (as CaCO <sub>3</sub> ) (max)	mg/l	200 (600)	172.0
07	Iron (as Fe) (max)	mg/l	0.3 (NR)	0.21
08	Calcium (as Ca) (max)	mg/l	75 (200)	44.5
09	Magnesium (as Mg) (max)	mg/l	30 (100)	14.8
10	Sulfate (as SO <sub>4</sub> ) (max)	mg/l	200(400)	8.4
11	Nitrate (as NO <sub>3</sub> ) (max)	mg/l	45 (NR)	2.78
12	Fluoride as F	mg/l	1.0(1.5)	0.22
13	Total Coliform	MPN/100ml	Absent	<1.8

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Name : Santhosh Kumar A  
Designation : Quality Manager



### TEST REPORT

Report No	EHS360/TR/2022-23/0022	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Mukundapur, Parang, Dist-Anugul, 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	24.03.2023	Date of Analysis	25.03.2023
Date of Receiving	25.03.2023	Date of Complete	28.03.2023
Locations	Near Hanuman Temple; Latitude: 20°52'7.20"N & Longitude: 85°1'1.24"E		

Sl. No	Parameters	Unit	Standard as per IS-10500 (2012)	Result
				GW
14	Total Chromium as Cr(max)	mg/l	0.05(NR)	<0.05
15	Sodium as Na(max)	mg/l	—	22.3
16	Potassium as K(max)	mg/l	—	1.5
17	Odour	—	Agreeable	U/O
18	Taste	—	Agreeable	AL
19	Residual free Chlorine	mg/l	0.2 (1)	<0.2
20	Manganese (as Mn) (max)	mg/l	0.10 (0.3)	<0.05
21	Cadmium (as Cd) (max)	mg/l	0.003 (NR)	<0.001
22	Copper (as Cu) (max)	mg/l	0.05 (1.5)	<0.03
23	Zinc (as Zn) (max)	mg/l	5 (15)	0.24
24	Lead (as Pb) (max)	mg/l	0.01 (NR)	<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, Mukundapur, Parang, Dist-Anugul, 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	24.03.2023	Date of Analysis	25.03.2023
Date of Receiving	25.03.2023	Date of Complete	28.03.2023
Locations	Near Hanuman Temple; Latitude: 20°52'7.20"N & Longitude: 85°1'1.24"E		

Sl. No	Parameters	Unit	Standard as per IS-10500 (2012)	Result
25	Selenium (as Se) (max)	mg/l	0.01 (NR)	<0.001
26	Mercury (as Hg) (max)	mg/l	0.001 (NR)	<0.001
27	Cyanide (as CN) (max)	mg/l	0.05 (NR)	<0.2
28	Boron (as B) (max)	mg/l	0.5 (1.0)	<0.01
29	Arsenic (as As) (max)	mg/l	0.01(0.5)	<0.001
30	Mineral Oil	mg/l	0.5(NR)	ND
31	Aluminum (as Al) (max)	mg/l	0.03(0.2)	<0.01
32	Anionic Detergents (as MBAS)	mg/l	0.2(1.0)	ND
33	Phenolic Compounds (as C6H5OH)	mg/l	0.001 (0.002)	<0.001
34	Selenium (as Se) (max)	mg/l	0.01 (NR)	<0.001

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Name : Santhosh Kumar A  
Designation : Quality Manager

Report No	EHS360/TR/2022-23/023	Report Date	06.04.2023
Issued To	M/s Sree Metaliks Ltd, Mukundapur, Parang, Dist-Anugul, 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	24.03.2023	Date of Analysis	25.03.2023
Date of Receiving	25.03.2023	Date of Complete	28.03.2023
Locations	Nala Near Plant ; Latitude: 20°52'4.23"N & Longitude: 85°1'5.93"E		

Sl. No	Parameters	Unit	Standard as per IS-2296 Class-C	Result
				SW
01	pH	--	6.0-9.0	7.64
02	Colour	Hazen	300	20
03	Turbidity	NTU	--	<1.0
04	Chloride (as Cl)	mg/l	600	24
05	Total Dissolved Solid	mg/l	1500	142
06	Chemical Oxygen Demand as COD	mg/l	--	12.4
07	Hexavalent Chromium (as Cr+6)	mg/l	0.05	<0.05
08	Fluoride (as F)	mg/l	1.5	<0.05
09	Sulfate (as SO4)	mg/l	400	8.6
10	Iron (as Fe)	mg/l	0.5	0.42
11	Nitrate (as NO3)	mg/l	50	2.08
12	Dissolved oxygen (min)	mg/l	4	5.8

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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, Mukundapur, Parang, Dist-Anugul, 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	24.03.2023	Date of Analysis	25.03.2023
Date of Receiving	25.03.2023	Date of Complete	28.03.2023
Locations	Nala Near Plant ; Latitude: 20°52'4.23"N & Longitude: 85°1'5.93"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	0.12
19	Zinc as Zn(max)	mg/l	15	0.24
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	270

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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, Mukundapur, Parang, Dist-Anugul, 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	24.03.2023	Date of Analysis	25.03.2023
Date of Receiving	25.03.2023	Date of Complete	28.03.2023
Locations	Inside Plant; Latitude: 21°59'26.41"N & Longitude: 85°19'39.29"E		

Sl. No	parameters	Unit	Result
			SW
01	Colour	---	Brown
02	Moisture content	%	6.8
03	pH	---	6.64
04	Electrical Conductivity (as EC)	micro s/cm	245
05	Soil Texture	---	Sand Loamy
06	Bulk Density	gm/cc	1.31
07	Calcium as Ca	mg/kg	424
08	Magnesium as Mg	mg/kg	204
09	Organic Carbon	%	131
10	Nitrogen as N	kg/hect	98
11	Phosphorus( as p)	kg/hect	50
12	Potassium (as K)	mg/kg	208
13	Chloride (as Cl)	mg/kg	214
14	Manganese (as Mn)	mg/kg	9.3
15	Iron (as Fe)	%	1.34

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A-57

Name: Santhosh Kumar A  
Designation: Quality Manager