

**ENVIRONMENT MONITORING  
REPORT OF  
MONTH JULY-2022**



**Client- M/s SREE METALIKS LTD.  
Address- Loidapada, Dist-Barbil,  
Keonjhar, Odisha**

**Monitored By - BIOMES LABORATORY**



**Address- Plot-225, Chandrasekharpur,  
Bhubaneswar, Odisha-751016  
NABL Certificate No:- TC10049**

# PHOTOGRAPHS OF ENVIRONMENT MONITORING



# 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]



Report No - BMS/22/SML/139

Issued Date-03.08.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ1-Near Admin Office: 21°59'26.41"N Latitude & 85°19'39.29"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> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )
04.07.2022	60.6	31.2	12.8	17.8
07.07.2022	58.4	30.2	12.4	17.2
11.07.2022	56.3	28.7	11.8	16.6
14.07.2022	55.4	28.2	11.6	16.2
18.07.2022	56.8	28.5	11.8	16.8
21.07.2022	55.1	27.6	11.2	16.1
25.07.2022	58.2	29.6	11.8	17.2
28.07.2022	60.5	30.8	12.2	17.8
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)



*[Signature]*  
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\*END OF REPORT\*

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Plot No. 225, District Centre, Chandrasekharpur, Bhubaneswar - 751016  
Email - biomes.bbsr@gmail.com, biomes.enviro@gmail.com  
Contact: 0674-2747444 / 797808808



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Report No -BMS/22/SML/140

Issued Date-03.08.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metalliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ2-Near Dispensary: 21°59'33.80"N Latitude & 85°19'24.18"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> )
04.07.2022	51.6	25.2	6.4	11.8
07.07.2022	49.2	25.1	6.1	11.4
11.07.2022	50.1	25.6	6.4	11.6
14.07.2022	49.2	24.8	6.8	12.2
18.07.2022	48.2	24.4	6.4	11.6
21.07.2022	47.8	23.8	6.1	11.2
25.07.2022	50.6	25.8	6.8	12.1
28.07.2022	52.4	26.4	7.2	12.6
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/141

Issued Date-03.08.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metallks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ3- Village Rugudihi: 21°59'50.80"N Latitude & 85°19'20.16"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> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )
04.07.2022	52.1	26.2	5.8	11.1
07.07.2022	50.4	25.2	5.1	10.8
11.07.2022	47.6	23.8	4.8	10.2
14.07.2022	46.5	23.1	4.5	9.8
18.07.2022	45.6	22.6	4.6	9.8
21.07.2022	47.4	23.8	4.9	10.3
25.07.2022	45.4	22.5	4.2	9.6
28.07.2022	50.4	25.2	4.5	10.3
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/142

Issued Date-03.08.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metalliks Ltd, Loldapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ4- Village Lohidapada: 21°59'35.97"N Latitude & 85°19'08.86"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> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )
04.07.2022	48.2	22.1	<4.0	<9.0
07.07.2022	46.4	23.2	<4.0	<9.0
11.07.2022	45.6	22.6	<4.0	<9.0
14.07.2022	43.2	22.1	<4.0	<9.0
18.07.2022	44.1	22.5	<4.0	<9.0
21.07.2022	42.5	21.4	<4.0	<9.0
25.07.2022	45.1	22.6	<4.0	<9.0
28.07.2022	47.2	23.4	<4.0	<9.0
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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Contact: 0674-2747444 / 797808808



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Report No –BMS/22/SML/143

Issued Date-03.08.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Air Sample
Sampling By	BIOME's Representative
Instrument Used	CO Analyser

Name of Location	A1 Near Admin Office	A2 Near Dispensary	A3 Village Rugudihi	A4 Village Lohidapada
Date Of Sampling	CO (mg/m <sup>3</sup> )			
04.07.2022	0.51	0.36	0.34	0.25
07.07.2022	0.5	0.35	0.32	0.24
11.07.2022	0.48	0.34	0.3	0.23
14.07.2022	0.48	0.35	0.3	0.21
18.07.2022	0.5	0.32	0.3	0.22
21.07.2022	0.47	0.31	0.32	0.2
25.07.2022	0.5	0.33	0.28	0.23
28.07.2022	0.52	0.35	0.31	0.25
NAAQ* Standard	4	4	4	4
Methods of Analysis	IS: 5182 (Part- 10)	IS:5182 (Part-10)	IS:5182 (Part-10)	IS:5182 (Part-10)



  
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Report No –BMS/22/SML/144

Issued Date-03.08.2022

**AMBIENT AIR QUALITY MONITORING TEST REPORT**

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Air Sample
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler, Benzene Sampler
Date of Sampling	25.07.2022

Name of Location	Location	O <sub>3</sub> (µg/m <sup>3</sup> )	NI <sub>2</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 Admin Office	<8.0	<20.0	<0.06	<0.6	<0.44	<5	<1
AAQ-2	Near Dispensary	<8.0	<20.0	<0.06	<0.6	<0.44	<5	<1
AAQ-3	Village Rugudihi	<8.0	<20.0	<0.06	<0.6	<0.44	<5	<1
AAQ-4	Village Lohidapada	<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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**FUGITIVE MONITORING TEST REPORT**

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/VO/107/22-23; 30.06.2022
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 Main Gate	21°59'36.61"N	85°19'27.95"E	12.07.2022	525.6
2	Near Crushing Plant	21°59'27.80"N	85°19'38.89"E	12.07.2022	664.5
3	Near Power Plant	21°59'27.87"N	85°19'30.78"E	12.07.2022	604.5
4	Near SMS - 1	21°59'23.62"N	85°19'37.62"E	12.07.2022	498.2
5	Near SMS - 2	21°59'36.28"N	85°19'34.16"E	15.07.2022	484.1
6	Near Blast Furnace	21°59'23.15"N	85°19'32.77"E	15.07.2022	556.2
7	Near Milling Role-1	21°59'23.96"N	85°19'39.63"E	15.07.2022	492.4
8	Near Milling Role-2	21°59'39.20"N	85°19'36.15"E	15.07.2022	486.4
Fugitive Standard					1200
Methods of Analysis					IS:5182 (Part-24)




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



TC-10049

Report No –BMS/22/SML/146

Issued Date-03.08.2022

## STACK EMISSION MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Flue Gas
Sampling Location	St-1 DRI 1 & 2 Latitude 21°59'28.66"N & Longitude 85°19'35.76"E St-2 DRI 3 & 4 Latitude 21°59'26.74"N & Longitude 85°19'38.33"E St-3 DRI 5 & 6 Latitude 21°59'26.95"N & Longitude 85°19'38.80"E St-4 Attached to AFBC Boiler Latitude 21°59'27.67"N & Longitude 85°19'31.06"E
Sampling By	BIOME's Representative
Instrument Used	Stack Kit
Date of Sampling	13 & 14.07.2022
Date of Receiving	15.07.2022
Date of Analysis	19.07.2022

## ANALYSIS RESULT

Sl. No	Items	Testing Method	As per CPCB Standard	Result			
				St-1	St-2	St-3	St-4
01	Flue Gas Temp. in K	IS-11255 (PART-3) 1985, (RA-2013)	---	390	397	392	390
02	Average flue gas Velocity in m/sec	IS-11255 (PART-3) 1985, (RA-2013)	---	12.67	11.72	12.2	7.71
03	Flow Rate in mg/Nm <sup>3</sup>	IS-11255 (PART-3) 1985, (RA-2013)	---	29148.46	57409.98	60523.51	155720.5
04	Particulate Matter (PM) in mg/Nm <sup>3</sup>	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	100 (50-AFBC Boiler)	52.4	46.4	42.5	42.2
05	Pbar in mmHg		---	690	690	690	690
06	SO <sub>2</sub> in mg/Nm <sup>3</sup>	IS-11255(PART-2)	600	50.6	58.2	55.4	78.5

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		1985, (RA-2019)					
07	NO <sub>x</sub> in mg/Nm <sup>3</sup>	IS-11255(PART-2) 1985	300	36.2	42.4	40.4	46.2
08	CO in %	IS-13270:1992, (RA-2019)	1%	<0.2	<0.2	<0.2	<0.2
	CO <sub>2</sub> in %	IS-13270:1992, (RA-2019)	---	2.2	3.2	2.8	4.2

Note: Pb & NO<sub>x</sub> is not under NABL Scope



  
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Report No –BMS/22/SML/147

Issued Date-03.08.2022

## AMBIENT NOISE LEVEL MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Noise
Sampling Location	N1-Near Admin Office; Latitude 21°59'26.41"N & Longitude 85°19'39.29"E N2-Near Dispensary; Latitude 21°59'33.80"N & Longitude 85°19'24.18"E N3-Village Rugudi; Latitude 21°59'50.80"N & Longitude 85°19'20.16"E N4-Village Lohidapada; Latitude 21°59'35.97"N & Longitude 85°19'08.86"E
Sampling By	BIOME's Representative
Instrument Used	Noise Meter
Date of Sampling	14.07.2022
Date of Receiving	15.07.2022

Day time Noise monitoring results Noise Level in dB (A)				
TIME (6.00AM to 10.00PM)	N-1	N-2	N-3	N-4
Avg.	66.8	46.8	47.2	46.4
Standard as per CPCB	75.0	55.0		
Night time Noise monitoring results Noise Level in dB (A)				
TIME (10.00PM to 6.00AM)	N-1	N-2	N-3	N-4
Avg.	48.7	36.7	36.8	36.2
Standard as per CPCB	70.0	45.0		



  
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Report No -BMS/22/SML/148

Issued Date-03.08.2022

## WORK ZONE NOISE LEVEL MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	Ambient Noise
Sampling Location	N1- Near Main Gate; Latitude 21°59'36.61"N & Longitude 85°19'27.95"E N2- Near Crushing Plant; Latitude 21°59'27.80"N & Longitude 85°19'38.89"E N3- Near Power Plant; Latitude 21°59'27.87"N & Longitude 85°19'30.78"E N4- Near SMS - 1; Latitude 21°59'23.62"N & Longitude 85°19'37.62"E N5- Near SMS - 2; Latitude 21°59'36.28"N & Longitude 85°19'34.16"E N6- Near Blast Furnace; Latitude 21°59'23.15"N & Longitude 85°19'32.77"E N7- Near Milling Role-1; Latitude 21°59'23.96"N & Longitude 85°19'39.63"E N8- Near Milling Role-2; Latitude 21°59'39.20"N & Longitude 85°19'36.15"E
Sampling By	BIOME'S Representative
Instrument Used	Noise Meter
Date of Sampling	14-15.07.2022
Date of Receiving	15.07.2022

Day time Noise monitoring results Noise Level in dB (A)								
TIME (6.00AM to 10.00PM)	N-1	N-2	N-3	N-4	N-5	N-6	N-7	N-8
Avg.	70.4	71.4	69.6	69.6	68.9	69.2	68.8	68.6
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	N-3	N-4	N-5	N-6	N-7	N-8
Avg.	62.5	68.2	63.4	62.7	61.6	64.6	65.6	65.6
Standard as per CPCB	70.0							



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## SURFACE WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	SURFACE WATER
Sampling Location	SW1-Karo River; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E
Sampling By	BIOME's Representative
Date of Sampling	15.07.2022
Date of Receiving	16.07.2022
Date of Analysis	16.07.2022-20.07.2022

### ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SW1
1	pH	---	6.0-9.0	7.57
2	Colour	Hazen	300	25
3	Turbidity	NTU	--	4.8
4	Chloride (as Cl)(max)	mg/l	600	14.0
5	Total Dissolved Solid(max)	mg/l	1500	105
6	Chemical Oxygen Demand as COD(max)	mg/l	--	8
7	Hexavalent Chromium (as Cr+6) (max)	mg/l	0.05	<0.05
8	Fluoride (as F) (max)	mg/l	1.5	0.08



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9	Sulfate (as SO <sub>4</sub> ) (max)	mg/l	400	4.5
10	Iron (as Fe) (max)	mg/l	0.5	0.32
11	Nitrate (as NO <sub>3</sub> ) (max)	mg/l	50	1.6

End of test report



  
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Report No –BMS/22/SML/150

Issued Date-03.08.2022

## SURFACE WATER MONITORING TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	SURFACE WATER
Sampling Location	SW1-Karo River; Latitude21°59'35.29"N& Longitude 85°19'10.86"E
Sampling By	BIOME's Representative
Date of Sampling	15.07.2022
Date of Receiving	16.07.2022
Date of Analysis	16.07.2022-20.07.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SW1
12	Dissolved oxygen (min)	mg/l	4	6.6
13	Oil & Grease (max)	mg/l	--	<1.0
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
20	Selenium as Se (max)	mg/l	0.05	<0.001

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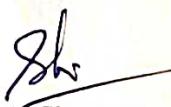
[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]

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	900

End of test report



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Report No –BMS/22/SML/151

Issued Date-03.08.2022

## GROUND WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
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	15.07.2022
Date of Receiving	16.07.2022
Date of Analysis	16.07.2022-20.07.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-10500 (2012)	GW1	GW2	GW3
1	pH	---	6.5-8.5	6.56	6.74	6.62
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)	12.0	14.0	12.0
5	Total Dissolved Solid	mg/l	500 (2000)	136.0	142.0	134.0
6	Total Hardness (as CaCO <sub>3</sub> ) (max)	mg/l	200 (600)	98.0	102.0	94.0
7	Iron (as Fe) (max)	mg/l	0.3 (NR)	0.22	0.23	0.21

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8	Calcium (as Ca) (max)	mg/l	75 (200)	25.7	26.5	24.5
9	Magnesium (as Mg) (max)	mg/l	30 (100)	8.3	8.8	8.0
10	Sulfate (as SO <sub>4</sub> ) (max)	mg/l	200(400)	1.8	2.1	2.2
11	Nitrate (as NO <sub>3</sub> ) (max)	mg/l	45 (NR)	0.98	1.02	1.04
12	Alkalinity (as CaCO <sub>3</sub> ) (max)	mg/l	200 (600)	88.0	90.0	87.0
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	---	7.30	8.60	7.5
16	Potassium as K(max)	mg/l	---	0.5	0.6	0.5

End of test report



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Report No –BMS/22/SML/152

Issued Date-03.08.2022

## GROUND WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
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	15.07.2022
Date of Receiving	16.07.2022
Date of Analysis	16.07.2022-20.07.2022

## 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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TC-10049

Report No –BMS/22/SML/153

Issued Date-03.08.2022

## EFFLUENT TREATED WATER QUALITY TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	EFFLUENT TREATED WATER
Sampling Location	ETP1- ETP Inlet; Latitude 21°59'28.24"N & Longitude 85°19'24.21"E ETP2- ETP Outlet; Latitude 21°59'30.19"N & Longitude 85°19'27.13"E
Sampling By	BIOME's Representative
Date of Sampling	15.07.2022
Date of Receiving	16.07.2022
Date of Analysis	16.07.2022-20.07.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Prescribed Standards*(Public Sewers) as per CPCB	ETP inlet	ETP outlet
1	pH		5.5-9.0	5.85	7.26
2	Conductivity	μ/sec	100	208.2	251.6
3	Total Suspended Solid (as TSS)	mg/l	600	60	8
4	Total Dissolve Solid (as TDS)	mg/l	--	135	168
5	Oil & Grease	mg/l	20	3.6	<1.0
6	Chemical Oxygen Demand (as COD)	mg/l	---	420	18
7	Iron (as Fe)	mg/l	3	0.56	0.32
8	Sulphate (as SO <sub>4</sub> )	mg/l	---	12.2	8.6
9	Nitrate (as NO <sub>3</sub> )	mg/l	---	8.2	3.4
10	Fluoride (as F)	mg/l	15	0.56	0.12
11	Hexavalent	mg/l	2.0	<0.05	<0.05

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	Chromium (as Cr <sup>6+</sup> )				
12	Total Chromium (as Cr)	mg/l	2.0	0.42	<0.05
13	Dissolved Phosphate (as P)	mg/l	---	2.6	0.24
14	Ammonical Nitrogen (as N)	mg/l	50	3.2	0.8
15	Total Kajeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	---	12.4	2.2

Note: Oil & Grease is not under NABL Scope.

End of test report



  
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Report No –BMS/22/SML/154

Issued Date-03.08.2022

## SEWAGE TREATED WATER QUALITY TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	SEWAGE TREATED WATER
Sampling Location	STP1- Inside Colony; Latitude 21°59'36.83"N & Longitude 85°19'28.00"E STP2- Near Canteen; Latitude 21°59'28.99"N & Longitude 85°19'32.99"E STP3- SRTP Outlet; Latitude 21°59'35.97"N & Longitude 85°19'28.58"E
Sampling By	BIOME's Representative
Date of Sampling	15.07.2022
Date of Receiving	16.07.2022
Date of Analysis	16.07.2022-20.07.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	CPCB Guidelines for Sewage Treatment Plants(STPs)[2021]	Inside Colony	Near Canteen	SRTP Outlet
1	pH		6.5-8.5	6.85	6.78	6.92
2	Total Suspended Solid (as TSS)(max)	mg/l	<10	8	12	10
3	Total Dissolve Solid (as TDS) (max)	mg/l	--	104	122	118
4	Oil & Grease (max)	mg/l	--	<1.0	<1.0	<1.0
5	Chemical Oxygen Demand (as COD) (max)	mg/l	<50	10	12	12
6	Biological Oxygen Demand	mg/l	<10	2.4	2.6	2.4

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	(as BOD)at 27 C 3 days(max)					
7	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ) (max)	mg/l	<5	4.2	4.8	5.2

Note: Oil & Grease & BOD is not under NABL Scope.

End of test report



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Report No –BMS/22/SML/155

Issued Date-03.08.2022

## SOIL QUALITY TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha
Work Order No./ Date	SML/ENV/WO/107/22-23; 30.06.2022
Nature of Sampling	SOIL
Sampling Location	SQ1- Plant Area; Latitude 21°59'26.41"N & Longitude 85°19'39.29"E SQ2- Village Rugudihi; Latitude 21°59'50.80"N & Longitude 85°19'20.16"E SQ3- Village Lohidapada; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E
Sampling By	BIOME's Representative
Date of Sampling	15.07.2022
Date of Receiving	16.07.2022
Date of Analysis	18.07.2022-21.07.2022

## 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	%	12.8	12.4	11.6
3	pH	---	6.12	6.28	6.35
4	Electrical conductivity (as EC)	micro s/cm	194	176	170
5	Soil Texture	---	Sandy loamy	Clay loamy	Sandy loamy
6	Bulk Density	gm/cc	1.3	1.26	1.24
7	Calcium (as Ca)	mg/kg	420	320	290
8	Magnesium (as Mg)	mg/kg	210	160	130
9	Organic Carbon	%	1.42	1.78	1.88
10	Nitrogen (as N)	kg/hect	128	160	178

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Email – biomes.bbsr@gmail.com, biomes.enviro@gmail.com  
Contact: 0674-2747444 / 797808808



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11	Phosphorus (as p)	kg/hect	52	44	45
12	Potassium (as K)	mg/kg	265	198	190
13	Chloride(as Cl)	mg/kg	128	120	110
14	Manganese (as Mn)	mg/kg	8.8	4.2	3.9
15	Iron (as Fe)	%	2.82	1.32	1.28

End of test report



  
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