

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



Client- M/s SREE METALIKS LTD.

Address- Loidapada, Barbil

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/2023-24/066	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/066
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location & Coordinates	Near Admin Office:21°59'26.41"N Latitude & 85°19'39.29"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 (mg/m^3)
03.08.2023	54.2	27.1	7.5	12.5	0.3
07.08.2023	58.6	29.4	8.4	13.6	0.34
10.08.2023	62.8	31.2	9.6	14.8	0.37
14.08.2023	60.4	29.7	9.8	15.2	0.36
16.08.2023	55.1	27.8	8.5	14.1	0.34
21.08.2023	51.8	25.7	7.4	12.5	0.3
24.08.2023	54.2	26.9	7.9	13.1	0.32
28.08.2023	57.6	28.5	8.9	14.2	0.35
31.08.2023	60.7	30.8	9.6	15.3	0.37
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 –Below Detection Limit; DL– Detection Limit; NAAQ– National Ambient Air Quality; Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

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

Page 1 of 1

Verified by




Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/067	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/067
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location & Coordinates	NearDispensary:21°59'33.80"N Latitude & 85°19'24.18"E Longitude		

Date Of Sampling	PM10 (µg/m ³)	PM2.5 (µg/m ³)	SO2 (µg/m ³)	NOx (µg/m ³)	CO (mg/m ³)
03.08.2023	34.2	16.8	<4.0	<9.0	0.15
07.08.2023	32.6	16.1	<4.0	<9.0	0.14
10.08.2023	37.8	18.4	<4.0	<9.0	0.17
14.08.2023	38.5	18.8	<4.0	<9.0	0.18
16.08.2023	35.4	17.5	<4.0	<9.0	0.17
21.08.2023	30.6	15.2	<4.0	<9.0	0.15
24.08.2023	34.6	17.2	<4.0	<9.0	0.16
28.08.2023	35.2	17.8	<4.0	<9.0	0.17
31.08.2023	37.8	18.6	<4.0	<9.0	0.2
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 –Below Detection Limit; DL– Detection Limit; NAAQ– National Ambient Air Quality; Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

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

Page 1 of 1

Verified by



Authorised Signatory

A-S7

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/068	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/068
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location & Coordinates	VillageRugudihi:21°59'50.80"N Latitude & 85°19'20.16"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 (mg/m^3)
03.08.2023	29.6	14.8	<4.0	<9.0	0.14
07.08.2023	31.1	15.8	<4.0	<9.0	0.12
10.08.2023	34.2	16.8	<4.0	<9.0	0.14
14.08.2023	35.6	17.6	<4.0	<9.0	0.15
16.08.2023	34.5	16.8	<4.0	<9.0	0.14
21.08.2023	28.8	14.2	<4.0	<9.0	0.12
24.08.2023	33.2	16.6	<4.0	<9.0	0.13
28.08.2023	34.2	17.2	<4.0	<9.0	0.15
31.08.2023	35.2	17.4	<4.0	<9.0	0.18
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 –Below Detection Limit; DL– Detection Limit; NAAQ– National Ambient Air Quality;
Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

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



Verified by

Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/069	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/069
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location & Coordinates	Village Lohidapada: 21°59'35.97"N Latitude & 85°19'08.86"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 (mg/m^3)
03.08.2023	30.5	15.6	<4.0	<9.0	0.13
07.08.2023	30.6	15.2	<4.0	<9.0	0.12
10.08.2023	33.8	16.5	<4.0	<9.0	0.14
14.08.2023	34.9	17.2	<4.0	<9.0	0.15
16.08.2023	33.6	16.6	<4.0	<9.0	0.13
21.08.2023	29.2	14.6	<4.0	<9.0	0.12
24.08.2023	29.9	14.4	<4.0	<9.0	0.12
28.08.2023	34.6	17.6	<4.0	<9.0	0.15
31.08.2023	34.2	17.1	<4.0	<9.0	0.16
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 –Below Detection Limit; DL– Detection Limit; NAAQ– National Ambient Air Quality;

Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

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

Page 1 of 1

Verified by



Authorised Signatory

A-S7

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/070	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/070
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
		Sampling Date	14.08.2023

Name of Location	Location	O3 (µg/m ³)	NH3 (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	C6H6 (µg/m ³)	BaP (ng/m ³)
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)

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

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

Page 1 of 1

Verified by




Authorised Signatory

A-S7

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/071	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS11255	Sample Drawn by	Laboratory
Sample Name	Stack Emission Monitoring	Sample Code	EHS360/071
Sample Description	Flue Gas	Sample Condition	Fit for Analysis
Sample Collected Date	21.08.2023	Test Completed On	26.08.2023
Sampling Locations	St-1: Stack Attached to DRI 1&2; Latitude: 20°59'28.66"N & Longitude: 85°19'35.76"E St-2: Stack Attached to DRI 3&4; Latitude 20°59'26.74"N & Longitude: 85°19'38.33"E St-3: Stack Attached to DRI 5&6; Latitude: 20°59'26.95"N & Longitude: 85°19'38.80"E		

SI.No	Items	Testing Method	Result		
			St-1	St-2	St-3
01	Flue Gas Temp. in K	IS-11255(PART-3)1985, (RA-2013)	393	393	397
02	Average flue gas Velocity in m/sec	IS-11255(PART-3)1985, (RA-2013)	12.84	12.69	12.07
03	Flow Rate in mg/Nm ³	IS-11255(PART-3)1985, (RA-2013)	48529.413	47962.48	18026.6
04	Particulate Matter (PM) in mg/Nm ³	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	45.6	35.2	34.6
05	Pbar in mm Hg		690	690	690
06	SO ₂ in mg/Nm ³	IS-11255(PART-2)1985, (RA-2019)	53.6	54.2	56.1
07	NO _x in mg/Nm ³	IS-11255(PART-2)1985	42.9	56.4	42.8
08	CO in%	IS-13270: 1992,(RA-2019)	<0.2	<0.2	<0.2
09	CO ₂ in%	IS-13270 : 1992,(RA-2019)	1.8	2.3	2.1

Instruments Used: Flue Gas Analyser.

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

Page 1 of 1

Verified by



Authorised Signatory

A.S.7

Name : **Santhosh Kumar A**
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/072	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS11255	Sample Drawn by	Laboratory
Sample Name	Stack Emission Monitoring	Sample Code	EHS360/072
Sample Description	Flue Gas	Sample Condition	Fit for Analysis
Sample Collected Date	21.08.2023	Test Completed On	22.08.2023
Sampling Locations	St-4: Stack Attached to ABC Boiler; Latitude: 20°59'27.67"N & Longitude: 85°19'31.06"E		

Sl.No	Items	Testing Method	Result
			St-4
01	Flue Gas Temp. in K	IS-11255(PART-3)1985, (RA-2013)	395
02	Average flue gas Velocity in m/sec	IS-11255(PART-3)1985, (RA-2013)	12.81
03	Flow Rate in mg/Nm ³	IS-11255(PART-3)1985, (RA-2013)	76081.92
04	Particulate Matter (PM) in mg/Nm ³	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	44.1
05	Pbar in mm Hg		690
06	SO ₂ in mg/Nm ³	IS-11255(PART-2)1985, (RA-2019)	42.8
07	NO _x in mg/Nm ³	IS-11255(PART-2)1985	45.6
08	CO in%	IS-13270: 1992,(RA-2019)	<0.2
09	CO ₂ in%	IS-13270 : 1992,(RA-2019)	1.8

Instruments Used: Flue Gas Analyser

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



Verified by

Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/073	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha..		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/073
Sample Description	Ambient Noise	Sample Condition	Good
Sample Collected Date	21.08.2023	Sample Received On	22.08.2023
Test Commenced On	22.08.2023	Test Completed On	26.08.2023

S.No.	Locations	Day Time	Night Time
		Results in dB(A)	
1	Near Admin Office; Latitude: 21°59'26.41"N & Longitude: 85°19'39.29"E	63.2	49.2
2	Near Dispensary; Latitude: 21°59'33.80"N & Longitude: 85°19'24.18"E	47.1	38.4
Industrial Zone permissible limits as per TNPCB Norms		Day Time– 75 dB(A)	Night Time– 70 dB(A)
3	Village Rugudi; Latitude: 21°59'50.80"N & Longitude: 85°19'20.16"E	47.5	37.1
4	Village Lohidapada; Latitude: 21°59'35.97"N & Longitude: 85°19'08.86"E	46.8	36.4
Residential Zone permissible limits as per TNPCB Norms		Day Time– 55 dB(A)	Night Time– 45 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*****

Page 1 of 1

Verified by



Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/074	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha..		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/074
Sample Received On	23.08.2023	Test Commenced On	23.08.2023
Test Completed On	26.08.2023		
Sample Description	Work Zone Noise	Sample Condition	Good

SL.NO	Locations	Date Of Sampling	Day Time	Night Time
			Results in dB(A)	
1	Near Main Gate; Latitude: 21°59'36.61"N & Longitude: 85°19'27.95"E	22.08.2023	69.2	64.5
2	Near Crushing Plant; Latitude: 21°59'27.80"N & Longitude: 85°19'38.89"E	22.08.2023	69.5	66.2
3	Near Power Plant; Latitude: 21°59'27.87"N & Longitude: 85°19'30.78"E	22.08.2023	68.8	65.1
4	Near SMS - 1; Latitude: 21°59'23.62"N & Longitude: 85°19'37.62"E	22.08.2023	69.2	65.3
5	Near SMS - 2; Latitude: 21°59'36.28"N & Longitude: 85°19'34.16"E	23.08.2023	70.1	65.6
6	Near Blast Furnace; Latitude: 21°59'23.15"N & Longitude: 85°19'32.77"E	23.08.2023	70.2	66.8
7	Near Milling Role-1; Latitude: 21°59'23.96"N & Longitude: 85°19'39.63"E	23.08.2023	70.1	66.4
8	Near Milling Role-2; Latitude: 21°59'39.20"N & Longitude: 85°19'36.15"E	23.08.2023	70.4	67.6
Industrial Zone permissible limits as per TNPCB Norms			Day Time- 75 dB(A)	Night Time- 70 dB(A)

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



Verified by

Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2023-24/075	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS5182	Sample Drawn by	Laboratory
Sample Name	Fugitive Dust Sample	Sample Code	EHS360/075
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good

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	16.08.2023	456.8
2	Near Crushing Plant	21°59'27.80"N	85°19'38.89"E	16.08.2023	482.2
3	Near Power Plant	21°59'27.87"N	85°19'30.78"E	16.08.2023	414.6
4	Near SMS-1	21°59'23.62"N	85°19'37.62"E	16.08.2023	428.3
5	Near SMS-2	21°59'36.28"N	85°19'34.16"E	22.08.2023	434.2
6	Near Blast Furnace	21°59'23.15"N	85°19'32.77"E	22.08.2023	396.2
7	Near MillingRole-1	21°59'23.96"N	85°19'39.63"E	22.08.2023	408.6
8	Near MillingRole-2	21°59'39.20"N	85°19'36.15"E	22.08.2023	441.5
Fugitive Standard					1200
Methods of Analysis				IS:5182(Part-24)	

Instrument Used: Respirable Dust Sampler (RDS)

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



Verified by

Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/076	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Effluent Treatment Plant	Sample Code	EHS360/076
Sample Description	ETP	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Sample Locations	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.		

Sl. No	Parameters	Unit	Standard as Per E(P) Act, 1986 Schedule-VI(b)	Result	
				ETP1	ETP2
01	pH	---	5.5-9	6.48	7.08
02	Conductivity	µc/cm	-	205.4	246.4
03	TSS	mg/l	100	172	10
04	Total Dissolved Solid	mg/l	2100	128	156
05	Oil & Grease	mg/l	10	1.4	<1.0
06	Chemical Oxygen Demand as COD	mg/l	250	300	12
07	Iron as Fe	mg/l	3	0.48	0.28
08	Sulfate (as SO4)	mg/l	1000	16.4	9.2
09	Nitrate as NO3	mg/l	10-20	7.6	1.8

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

Page 1 of 1

Verified by



Authorised Signatory

A.S.K

Name : **Santhosh Kumar A**
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/076	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Effluent Treatment Plant	Sample Code	EHS360/076
Sample Description	ETP	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Sample Locations	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.		

SI.No	Parameters	Unit	Standard as Per E(P) Act, 1986 Schedule-VI(b)	Result	
				ETP1	ETP2
10	Fluoride (as F)	mg/l	1.5-2	0.32	0.1
11	Hexavalent Chromium(as Cr+6)	mg/l	2.0	<0.05	<0.05
12	Total Chromium (asCr)	mg/l	2	0.32	<0.05
13	Phosphate (as PO4)	mg/l	5	2.8	0.18
14	Ammonical Nitrogen	mg/l	50	2.2	1
15	Total Kjhedhal Nitrogen	mg/l	100	6.8	2.4

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

Page 1 of 1

Verified by




Authorised Signatory

A-S7

Name : Santhosh Kumar A

Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/077	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Sewage Treatment Plant	Sample Code	EHS360/077
Sample Description	STP (Outlet)	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Sample Locations	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		

Sl. No	Parameters	Unit	Standard as per CPCB	Result		
				STP1	STP2	STP3
01	pH	---	5.5-9	7.08	7.12	7.24
02	TSS	mg/l	50	10	8	16
03	Total Dissolved Solid	mg/l	-	114	122	128
04	Oil & Grease	mg/l	-	<1.0	<1.0	<1.0
05	Chemical Oxygen Demand as COD	mg/l	150	8	10	16
06	Biological Oxygen Demand as BOD	mg/l	10	<2.0	<2.0	<2.0
07	Total Kjhedhal Nitrogen	mg/l	-	1.8	2.2	2.2

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

Page 1 of 1

Verified by



Authorised Signatory

A-S7

Name: Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/078	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS10500	Sample Drawn by	Laboratory
Sample Name	Ground Water	Sample Code	EHS360/078
Sample Description	GW	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Locations	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		

Sl. No	Parameters	Unit	Standard as per IS-10500 (2012)	Result		
				GW1	GW2	GW3
01	pH	---	6.5-8.5	7.20	7.24	7.12
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)	14.0	16.0	15.0
05	Total Dissolved Solid	mg/l	500 (2000)	162.0	27.3	9.7
06	Total Hardness (as CaCO3) (max)	mg/l	200 (600)	108.0	112.0	98.0
07	Iron (as Fe) (max)	mg/l	0.3 (NR)	0.18	1.20	0.18
08	Calcium (as Ca) (max)	mg/l	75 (200)	175.0	28.1	10.2
09	Magnesium (as Mg)(max)	mg/l	30 (100)	154.0	25.6	8.3
10	Sulfate(as SO4)(max)	mg/l	200(400)	2.0	2.2	2.28
11	Nitrate (as NO3) (max)	mg/l	45 (NR)	1.06	1.12	1.08
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

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

Page 1 of 1

Verified by



Authorised Signatory

A-57

Name: Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/078	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS10500	Sample Drawn by	Laboratory
Sample Name	Ground Water	Sample Code	EHS360/078
Sample Description	GW	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Locations	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		

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	---	8.6	10.1	9.5
16	Potassium as K(max)	mg/l	---	0.6	0.7	0.6
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)	<0.05	<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

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



Verified by

Authorised Signatory

A-57

Name: Santhosh Kumar A

Designation: Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/078	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS10500	Sample Drawn by	Laboratory
Sample Name	Ground Water	Sample Code	EHS360/078
Sample Description	GW	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Locations	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		

SI.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

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



Verified by

Authorised Signatory

Name: Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/079	Report Date	05.09.2023
Issued To	<i>M/s Sree Metaliks Ltd,</i> Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	<i>M/s Sree Metaliks Ltd</i>		
Sampling Method	IS2296	Sample Drawn by	Laboratory
Sample Name	Surface Water	Sample Code	EHS360/079
Sample Description	SW	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Locations	SW- Karo River; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E		

Sl. No	Parameters	Unit	Standard as per IS-2296 Class-C	Result
				SW
01	pH	---	6.0-9.0	7.18
02	Colour	Hazen	300	150
03	Turbidity	NTU	--	4.8
04	Chloride (as Cl)	mg/l	600	12.0
05	Total Dissolved Solid	mg/l	1500	108
06	Chemical Oxygen Demand as COD	mg/l	--	16.0
07	Hexavalent Chromium (as Cr+6)	mg/l	0.05	<0.05
08	Fluoride (as F)	mg/l	1.5	0.06
09	Sulfate (as SO4)	mg/l	400	4.9
10	Iron (as Fe)	mg/l	0.5	0.32
11	Nitrate (as NO3)	mg/l	50	1.42
12	Dissolved oxygen(min)	mg/l	4	6.7

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

Page 1 of 1

Verified by



Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/079	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	IS2296	Sample Drawn by	Laboratory
Sample Name	Surface Water	Sample Code	EHS360/079
Sample Description	SW	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Locations	SW- Karo River; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"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 27°C (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	<0.03
19	Zinc as Zn(max)	mg/l	15	<0.05
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	900

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

Page 1 of 1

Verified by

[Signature]



Authorised Signatory

A-S7

Name : Santhosh Kumar A
Designation : Quality Manager

TEST REPORT

Report No	EHS360/TR/2022-23/080	Report Date	05.09.2023
Issued To	M/s Sree Metaliks Ltd, Loidapada, Dist-Barbil, Keonjhar, Odisha.		
Customer Name	M/s Sree Metaliks Ltd		
Sampling Method	Sop Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/080
Sample Description	Soil	Sample Condition	Good
Date of Sampling	21.08.2023	Date of Receiving	22.08.2023
Date of Analysis	22.08.2023	Date of Complete	28.08.2023
Locations	S1- Plant Area; Latitude: 21°59'26.41"N & Longitude: 85°19'39.29"E S2- Village Rugudihi; Latitude: 21°59'50.80"N & Longitude: 85°19'20.16"E S3-Village Lohidapada; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E		

SI.No	Items	Unit	Result		
			S1	S2	S3
01	Colour	---	Brown	Brown	Brown
02	Moisture content	%	11.8	11.6	12.1
03	pH	---	5.98	6.24	6.28
04	Electrical Conductivity (as EC)	micro s/cm	194	176	170
05	Soil Texture	---	Sandy loamy	Clay loamy	Sandy loamy
06	Bulk Density	gm/cc	1.29	1.27	1.26
07	Calcium as Ca	mg/kg	400	340	310
08	Magnesium as Mg	mg/kg	215	172	162
09	Organic Carbon	%	1.32	1.58	1.67
10	Nitrogen as N	kg/hect	98	176	192
11	Phosphorus (as P)	kg/hect	51	36	32
12	Potassium (as K)	mg/kg	192	154	162
13	Chloride (as Cl)	mg/kg	142	112	104
14	Manganese (as Mn)	mg/kg	7.2	3.6	3.1
15	Iron (as Fe)	%	2.72	1.08	1.36

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



Verified by

Authorised Signatory

A-57

Name : Santhosh Kumar A
Designation : Quality Manager