ENVIRONMENT MONITORING REPORT FOR THE MONTH OF OCTOBER - 2025



Client- M/s SREE METALIKS LTD.

Address- Khandbandh, Joda,

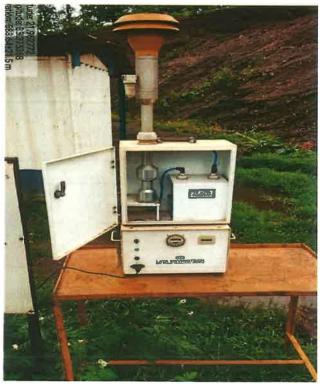
Dist- Keonjhar, Odisha



Monitored By - Green Force Associates Pvt. Ltd.
Address- Plot No-1363/3850, Baibhab Nagar,
Lane-2,Nakhara, Dist-Khorda, Odisha- 754001
NABL Certificate No:- TC-12258

PHOTOGRAPHS OF ENVIRONMENT MONITORING









Report No- GFAPL/25-26/SMK/093

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034			
Nature of Sampling	Ambient Air Quality Monitoring			
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Deviation from the method (if any)			
Discipline	Chemical	Group	Atmospheric Pollution	
Sampling Location &	AAQ1 - Near mines office	 		
Coordinates	Lat- 21°57'47.34"N; & Long- 85°22'30.79"E			
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment			
Sampling Method	As Per IS:5182			

Date of Sampling	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO ₂ (μg/m ³)
02.10.2025	41.5	19.6	4.6	9.6
06.10.2025	38.9	18.2	4.6	9.6
09.10.2025	47.8	23.8	5.4	10.6
13.10.2025	53.2	26.5	6.2	11.8
16.10.2025	55.7	27.9	6.4	12.2
20.10.2025	58.2	29.4	6.8	12.8
23.10.2025	61.6	30.8	7.2	13.2
27.10.2025	65.4	32.2	7.6	14.2
30.10.2025	59.2	28.9	6.4	12.8
Max	65.40	32.20	7.60	14.20
Min	38.90	18.20	4.60	9.60
Avg	53.50	26.37	6.13	11.87
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)

Reviewed By OCHIEF ANALYST

SOCIATES PRIVATE LIMITED

Chief Balkstwar, ODISHA

Note:

Authorized Signatory
TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Total liability of our lab is limited to the invoiced amount,
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Report No- GFAPL/25-26/SMK/094

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034			
Nature of Sampling	Ambient Air Quality Monitor			
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any)			
Discipline	Chemical	Group	Atmospheric Pollution	
Sampling Location &	AAQ2 - Near Pillar No. F-1			
Coordinates	Lat-21°57'33.77"N; & Long- 85°22'27.28"E;			
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment			
Sampling Method	As Per IS:5182			

Date of Sampling	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m³)	SO ₂ (μg/m ³)	NO_2 ($\mu g/m^3$)
02.10.2025	43.2	20.1	4.6	9.6
06.10.2025	40.6	18.8	4.6	9.6
09.10.2025	48.8	24.2	5.6	10.8
13.10.2025	56.2	28.1	6.4	12.2
16.10.2025	59.2	29.7	6.8	12.8
20.10.2025	61.4	31.6	7.2	13.4
23.10.2025	64.6	32.6	7.8	13.8
27.10.2025	68.2	34.4	8.2	14.8
30.10.2025	61.6	30.8	7.2	13.8
Max	68.20	34.40	8.20	14.80
Min	40.60	18.80	4.60	9.60
Avg	55.98	27.81	6.49	12.31
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)

Reviewed By

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATEM PRIVATE LIMITED BHUBANES WAR, FOR SHA

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Report No- GFAPL/25-26/SMK/095

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks L	imited,				
Chefit Name & Address	At/Po-Khandbandh,	Joda; Dist-k	Ceonjhar, C	disha-75803	4	
Nature of Sampling	Ambient Air Quality		*			
Sampling By	GFAPL's Representa	ative				
Location of performance	Laboratory Permane	ent	Deviation	from the	NO	
of Laboratory activities	Facility					
Discipline	Chemical	Group Atmosphe			spheric Pollution	
Sampling Location &	AAQ3 - Near Works	hop-Pillar	No. 8			
Coordinates	Lat- 21°57'38.03"N; 1	Long- 85°2	2'43.58"E;			
Instrument Used	Respirable Dust Sam	pler, Fine	Particulat	e Dust Samp	ler, Ga	seous Attachment
Sampling Method	As Per IS:5182					
	PM ₁₀	PI	M _{2.5}	SO ₂		NO ₂
Date of Sampling						$(\mu g/m^3)$
02.10.2025	42.4	19	.6	4.6		9.6
06 10 2025	40.1	1.8	2	4.6		0.6

Date of Sampling	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO ₂ (μg/m ³)
02.10.2025	42.4	19.6	4.6	9.6
06.10.2025	40.1	18.2	4.6	9.6
09.10.2025	48.5	24.2	5.2	10.4
13.10.2025	55.2	27.5	6.2	11.8
16.10.2025	57.5	28.6	6.4	12.4
20.10.2025	59.2	29.7	6.8	13.0
23.10.2025	62.7	31.5	7.2	13.4
27.10.2025	66.2	33.5	7.8	14.8
30.10.2025	60.8	30.3	7.0	13.2
Max	66.20	33.50	7.80	14.80
Min	40.10	18.20	4.60	9.60
Avg	54.73	27.01	6.20	12.02
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)

Reviewed By

Authorized Signatory

RCEMES AND PRIVATE LIMITED BHILL SAND ON SHA

Note:

TECHNICAL N PRIVATE LIMITED GREENFORCE ASSOCIATE BHUBANDAWAR DAIGHA

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Report No- GFAPL/25-26/SMK/096

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	M/s.Sree Metaliks Lir	nited,				
Cheft Name & Address	At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034					
Nature of Sampling	Ambient Air Quality M	onitoring				
Sampling By	GFAPL's Representat	ive				
Location of performance	Laboratory Permanen	t Deviation	from the			
of Laboratory activities	Facility	method (i	f any)			
Discipline	Chemical	Group	Group Atmospheric Pollut			
Sampling Location &	AAQ4 - Near Pillar No	o.C2		7.		
Coordinates	Lat- 21°57'47.69"N; &	Long- 85°22'34.50"	Έ;			
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment					
Sampling Method	As Per IS:5182					
Data of Camalina	PM ₁₀	PM _{2,5}	SO ₂		NO ₂	

Date of Sampling	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO ₂ (μg/m ³)
02.10.2025	34.6	16.4	<4.0	<9.0
06.10.2025	33.8	15.9	<4.0	<9.0
09.10.2025	41.5	20.2	4.6	9.6
13.10.2025	46.9	23.4	5.0	10.2
16.10.2025	50.8	25.5	5.4	10.8
20.10.2025	54.4	27.4	5.8	11.6
23.10.2025	58.2	29.2	6.2	12.2
27.10.2025	62.4	31.2	6.8	13.6
30.10.2025	58.5	29.2	6.0	11.6
Max	62.40	31.20	6.80	13.60
Min	33.80	15.90	<4.0	<9.0
Avg	49.01	24.27	5.69	11.37
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)

Reviewed By

SSOCIATES PRIVATE LIMITED GREENF PSWAR, ODISHA

Authorized Signatory

TECHNICAD MANAGER

GREENFORCE ASSOCIACE PRIVATE LIMITED

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Report No- GFAPL/25-26/SMK/097

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	M/s.Sree Metaliks Limited,	,			
Chefit Name & Address	At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034				
Nature of Sampling	Ambient Air Quality Monitor	Ambient Air Quality Monitoring			
Sampling By	GFAPL's Representative				
Location of performance	Laboratory Permanent Deviation from the				
of Laboratory activities	Facility	method (if any)	110		
Discipline	Chemical	Group	Atmospheric Pollution		
Sampling Location &	AAQ5 - Near Village Jalaha	ri			
Coordinates	Lat- 21°57'4.98"N; & Long- 85°25'11.00"E				
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment				
Sampling Method	As Per IS:5182				

Date of Sampling	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	$\frac{NO_2}{(\mu g/m^3)}$
02.10.2025	22.6	10.8	<4.0	<9.0
06.10.2025	20.4	10.1	<4.0	<9.0
09.10.2025	28.9	14.2	<4.0	<9.0
13.10.2025	34.8	17.4	<4.0	<9.0
16.10.2025	38.2	19	<4.0	<9.0
20.10.2025	41.6	20.8	<4.0	<9.0
23.10.2025	44.5	22.2	4.6	9.8
27.10.2025	49.4	24.6	4.8	10
30.10.2025	45.2	22.4	4.6	9.6
Max	49.40	24.60	4.80	10.00
Min	20.40	10.10	<4.0	<9.0
Avg	36.18	17.94	4.67	9.80
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182	IS:5182	IS:5182	IS:5182
	(Part-23)	(Part-24)	(Part-2)	(Part-6)

Reviewed By

GREENFORGE ASSOCIATES PRIVATE LIMITED
MISHWEAVERWAR ODISHA

1133. ATTI SAROO

Authorized Signatory
TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUSHNEEL Manager
Mr. S.K. Parhydisha

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Report No- GFAPL/25-26/SMK/098

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited,					
Cheft Name & Address	At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034					
Nature of Sampling	Ambient Air Quality Monitoring	Ambient Air Quality Monitoring				
Sampling By	GFAPL's Representative					
Location of performance	Laboratory Permanent Deviation from the NO					
of Laboratory activities	Facility	method (if any)	NO			
Discipline	Chemical	Group	Atmospheric Pollution			
Sampling Location &	AAQ6 - Near Village Bicchak	und				
Coordinates	Lat- 21°59'29.23"N; & Long- 85°24'08.85"E;					
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment					
Sampling Method	As Per IS:5182					

Date of Sampling	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO_2 $(\mu g/m^3)$
02.10.2025	25.6	12.2	<4.0	<9.0
06.10.2025	24.8	11.8	<4.0	<9.0
09.10.2025	30.6	15.1	<4.0	<9.0
13.10.2025	36.9	18.4	<4.0	<9.0
16.10.2025	40.5	20.1	<4.0	<9.0
20.10.2025	43.8	21.5	<4.0	<9.0
23.10.2025	48.2	24.1	4.8	9.8
27.10.2025	52.4	26.1	5.0	10.2
30.10.2025	45.6	22.3	4.6	9.6
Max	52.40	26.10	5.00	10.20
Min	24.80	11.80	<4.0	<9.0
Avg	38.71	19.07	4.80	9.87
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182	IS:5182	IS:5182	IS:5182
	(Part-23)	(Part-24)	(Part-2)	(Part-6)

GREENFORGE ANALYST GREENFORGE ANALYST ANALYST

Authorized Signatory

GREENFORCE AFSOCIATION PRIMATE LIMITED

BHUBANTEWAR, DODISHA

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Report No- GFAPL/25-26/SMK/099

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited,				
Chefit Name & Address	At/Po-Khandbandh, Joda; Dist-	-Keonjhar,Odisha-7580	34		
Nature of Sampling	Ambient Air Quality Monitorin	g			
Sampling By	GFAPL's Representative				
Location of performance	Laboratory Permanent	Deviation from the	NO		
of Laboratory activities	Facility	method (if any)	NO		
Discipline	Chemical	Group	Atmospheric Pollution		
Sampling Location &	AAQ7 - Near Village Ganua	AAQ7 - Near Village Ganua			
Coordinates	Lat- 21°55'27.37"N; & Long- 85°20'58.26"E;				
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment				
Sampling Method	As Per IS:5182				

Date of Sampling	PM_{10} ($\mu g/m^3$)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO ₂ (μg/m ³)
02.10.2025	21.8	10.6	<4.0	<9.0
06.10.2025	20.4	10.1	<4.0	<9.0
09.10.2025	27.9	13.5	<4.0	<9.0
13.10.2025	32.6	16.2	<4.0	<9.0
16.10.2025	36.4	18.1	<4.0	<9.0
20.10.2025	39.2	19.4	<4.0	<9.0
23.10.2025	42.1	20.8	<4.0	<9.0
27.10.2025	45.2	22.2	<4.0	<9.0
30.10.2025	42.1	20.8	<4.0	<9.0
Max	45.20	22.20	<4.0	<9.0
Min	20.40	10.10	<4.0	<9.0
Avg	34.19	16.86	<4.0	<9.0
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182	IS:5182	IS:5182	IS:5182
	(Part-23)	(Part-24)	(Part-2)	(Part-6)

Reviewed By EFIEF ANALYST Authorized Signatory

GREENFORCE ASSOCIATES PRIVATE LIMITED hie ABSWAR ODISHA ss. Arti Sahoo

TECHNICAL MANAGER GREENFORCE ASSOCIATES PRIVATE LIMITED BHUBANDOWAR OF BHA

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Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	M/s.Sree Metaliks Limited,				
Cheff tame Crudicis	At/Po-Khandbandh, Joda; Dist-	Keonjhar,Odisha-7580	34		
Nature of Sampling	Ambient Air Quality Monitoring				
Sampling By	GFAPL's Representative				
Location of performance	Laboratory Permanent	Deviation from the	NO		
of Laboratory activities	Facility	method (if any)	NO		
Discipline	Chemical	Group	Atmospheric Pollution		
Sampling Location &	AAQ8 - Near Village Khandba	ındh			
Coordinates	Lat- 21°57'22.56"N; & Long- 85°23'58.44"E;				
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler, Gaseous Attachment				
Sampling Method	As Per IS:5182		1.0		

Date of Sampling	$PM_{10} (\mu g/m^3)$	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO_2 ($\mu g/m^3$)
02.10.2025	22.9	11.1	<4.0	<9.0
06.10.2025	21.1	10.5	<4.0	<9.0
09.10.2025	28.6	14.2	<4.0	<9.0
13.10.2025	35.2	17.6	<4.0	<9.0
16.10.2025	39.8	19.5	<4.0	<9.0
20.10.2025	44.2	22.1	<4.0	<9.0
23.10.2025	46.8	23.3	4.6	9.6
27.10.2025	49.2	24.5	4.8	9.8
30.10.2025	44.6	22.1	<4.0	<9.0
Max	49.20	24.50	4.80	9.80
Min	21.10	10.50	<4.0	<9.0
Avg	36.93	18.32	4.70	9.70
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182	IS:5182	IS:5182	IS:5182
	(Part-23)	(Part-24)	(Part-2)	(Part-6)

Reviewed By
CHIST ANALYST
FORCEASSOCIATES PRIVATE LIMITED
CHUE ANALYST
Miss. Arti Sahoo

GREENFORCE ASSOCIATION PRIVATE LIMITED

Authorized Signatory

TECHNICAL MANAGER

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Report No- GFAPL/25-26/SMK/101

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	M/s.Sree Metaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034				
Nature of Sampling	Ambient Air Quality Monitoring				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any)				
Discipline	Chemical Group Atmospheric Pollu				
Sampling Location & Coordinates	AAQ1 - Near mines office; Lat- 21°57'47.34"N; & Long- 85°22'30.79"E AAQ2 - Near Pillar No. F-1; Lat- 21°57'30.72"N; & Long- 85°22'33.11"E; AAQ3 - Near Workshop-Pillar No. 8; Lat- 21°57'37.93"N; Long- 85°22'43.95"E; AAQ4 - Near Pillar No.C2; Lat- 21°57'48.14"N; & Long- 85°22'31.88"E;				
Instrument Used	CO Analyser				
Sampling Method	As Per IS:5182				

Date of Samulina	Result (mg/m3)			
Date of Sampling	AAQ1	AAQ2	AAQ3	AAQ4
02.10.2025	0.22	0.23	0.23	0.18
06.10.2025	0.21	0.22	0.22	0.17
09.10.2025	0.26	0.28	0.26	0.23
13.10.2025	0.3	0.32	0.3	0.26
16.10.2025	0.32	0.33	0.31	0.29
20.10.2025	0.33	0.34	0.33	0.31
23.10.2025	0.34	0.35	0.34	0.32
27.10.2025	0.35	0.36	0.35	0.33
30.10.2025	0.33	0.33	0.32	0.31
Max	0.35	0.36	0.35	0.33
Min	0.21	0.22	0.22	0.17
Avg	0.30	0.31	0.30	0.27
NAAQ* Standard of CO	4			
Methods of Analysis	IS: 5182(Part- 10)			

Reviewed BYANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

CHUBANESWAR, ODISHA

Miss. Arti Sahoo

Note:

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWARKOPISHA

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Report No- GFAPL/25-26/SMK/102

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	<i>M/s.Sree Metaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034					
Nature of Sampling	Ambient Air Quality Monitoring					
Sampling By	GFAPL's Representative					
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any)					
Discipline	Chemical Group Atmospheric Pollu					
	AAQ5 – Near Village Jalahuri ; Lat- 21°57'4.98"N; & Long- 85°25'11.00"E;					
Sampling Location &	AAQ6 – Near Village Bicchakund; Lat- 21°59'29.23"N; & Long- 85°24'08.85"E;					
Coordinates	AAQ7 – Near Village Ganua; Lat- 21°55'27.37"N; & Long- 85°20'58.26"E;					
Cool dinates	AAQ8 - Near Village Khandbandh; Lat- 21°57'22.56"N; & Long-					
_	85°23'58.44"E;					
Instrument Used	CO Analyser					
Sampling Method	As Per IS:5182					

Date of Sampling		Result (1	mg/m3)	
Date of Sampling	AAQ5	AAQ6	AAQ7	AAQ8
02.10.2025	0.10	0.12	0.10	0.10
06.10.2025	0.10	0.11	0.10	0.10
09.10.2025	0.13	0.14	0.12	0.13
13.10.2025	0.15	0.17	0.13	0.15
16.10.2025	0.17	0.19	0.15	0.18
20.10.2025	0.19	0.20	0.17	0.19
23.10.2025	0.21	0.22	0.19	0.21
27.10.2025	0.23	0.24	.0.19	0.22
30.10.2025	0.20	0.22	0.17	0.19
Max	0.23	0.24	0.19	0.22
Min	0.10	0.11	0.10	0.10
Avg	0.16	0.18	0.15	0.16
NAAQ* Standard of CO	4			
Methods of Analysis	IS: 5182(Part- 10)			

Reviewed By

MALYSI LATES PRIVATE LIMITED

GREENFORGE ASSOCIATES PRIVATE L

Authorized Signatory
TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Note:

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Report No- GFAPL/25-26/SMK/103

Issued Date- 04.11.2025

TEST REPORT

Client Name & Address	<i>M/s.Sree Metaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034			
Nature of Sampling	Fugitive Dust Emission			
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any)			
Discipline	Chemical Group Atmospheric Pollution			
Sampling By	GFAPL's Representative			
Instrument Used	Respirable Dust Sampler (RDS)			
Sampling Method	As Per IS:5182			

Sl. No.	Sampling Locations	Date of Sampling	Result (µg/m³)		
1	Near Mines bench: Lat- 21° 57' 39.95"N, Long-85° 22' 37.35"E	08.10.2025	342.5		
1	14ear 14fines betten: Lat- 21 37 39.93 N, Long-83 22 37.33 E	21.10.2025	624.5		
2	Near Haul roads: Lat- 21° 57' 38.32"N, Long-85° 22' 33.52"E	08.10.2025	378.2		
	11441 11441 10443: Eat- 21 37 38.32 N, Long-83 22 33.32 E	21.10.2025	669.7		
3	Near crushing point: Lat-21° 57′ 38.37″N, Long-85° 22′ 30.38″E	08.10.2025	246.5		
3		21.10.2025	524.8		
4	Near screening plant: Lat-21° 57' 36.11"N, Long-85° 22' 30.43"E	08.10.2025	342.5		
7		21.10.2025	594.2		
5	Non-One-standard and 12-12-12-12-12-12-12-12-12-12-12-12-12-1	08.10.2025	305.6		
3	Near Ore storage and loading: Lat-21° 57' 41.49"N, Long- 85° 22' 31.43"E	21.10.2025	497.6		
6	Near Wests durant Let 219 57! 45 92!!N. Leng. 959 22! 20 59!!E	08.10.2025	369.8		
U	6 Near Waste dump: Lat-21° 57' 45.82"N, Long- 85° 22' 29.58"E				
	Fugitive Standard				
Methods of Analysis					

Reviewed By

CHIEF ANALYST

GREENFORF ASSOCIATES PRIVATE LIMITED

MISSHALLASIASWAR, ODISHA

Authorized Signatory
TECHNICAL MENAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANES MERPAHIS

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Report No- GFAPL/25-26/SMK/104

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	<i>M/s.Sree Metaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034				
Nature of Sampling	Workzone Noise Monitoring				
Location of performance of Laboratory activities	Site Facility Deviation from the method (if any)				
Discipline	Chemical	Group	Atmospheric Pollution		
Sampling By	GFAPL's Representative Date of Sampling 18.10.2025				
Instrument Used	Sound Level meter				
Sampling Method	As Per IS:9989				

C. M.		Day Time	Night Time	
S. No.	Locations	Results in dB(A)		
1	Near mines office;	55.9	42.4	
•	Lat- 21°57'31.42"N; & Long- 85°22'38.83"E;	33.9		
2	Near Pillar No. F-1	59.2	45.1	
_	Lat- 21°57'30.72"N; & Long- 85°22'33.11"E;			
3	Near Workshop-, Pillar No. 8	60.4	45.2	
	Lat- 21°57'37.93"N; Long- 85°22'43.95"E;			
4	Near Pillar No.C2	60.6	45.5	
	Lat- 21°57'37.93"N; Long- 85°22'43.95"E;			
Industr	ial Zone permissible limits as per CPCB Norms	Day Time -	Night Time	
1111111111111	2010 permodicie minis as per CI CD Horms	75dB(A)	-70dB(A)	

Reviewed By

GREENFORGE ANALYST

OREENFORGE ANALYST

NEW BANESYAB. ODISHA

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUB TRESIDENT MANAGER

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Report No- GFAPL/25-26/SMK/105

Issued Date- 04.11.2025

TEST REPORT

Client Name &Address	M/s.Sree Metaliks Limited,						
Choire Maine Contact Cos	At/Po-Khandbandh, Joda; Dist-	Keonjhar, Odisha-7580	034				
Nature of Sampling	Ambient Noise Monitoring	Ambient Noise Monitoring					
Location of performance	Site Facility	Deviation from the	NO				
of Laboratory activities	Site Facility	method (if any)	NO				
Discipline	Chemical	Group	Atmospheric Pollution				
Sampling By	GFAPL's Representative	Date of Sampling	18.10.2025				
Instrument Used	Sound level meter						
Sampling Method	As Per IS:9989						

CL N.	T	Day Time	Night Time		
Sl. No.	Locations	Results	Results in Db(A)		
1	Near Village Jalahuri	47.4	37.9		
•	Lat- 21°57'4.98"N; & Long- 85°25'11.00"E	47.4			
2	Near Village Bicchakund	47.2	37.9		
_	Lat- 21°58'50.16"N; & Long- 85°23'51.37"E;				
3	Near Village Ganua	47.5	37.5		
J	Lat- 21°55'27.37"N; & Long- 85°20'58.26"E;				
4	Near Village Khandbandh	48.1	38.6		
	Lat- 21°55'46.60"N; & Long- 85°23'9.11"E;				
Industri	al Zone permissible limits as per CPCB Norms	Day Time – 75dB(A)	Night Time -70dB(A)		

Reviewed By GREENFORCE ASSOCIATES PRIVATE LIMITED CHIATRANDSWAR ODISHA

Miss. Arti Sahoo

Note:

Authorized Signatory TECHNICAL MANAGER GREENFORCE ASSOCIATES PRIVATE LIMITED BHUE ACIETY ON A PRI 200 BEHA

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Report No-GFAPL/25-26/ SMK/106

Issued Date- 04.11.2025

Client Name & Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034					
Nature of Sampling	Surface Water					
Sampling By	GFAPL's Representative					
Location of performance of Laboratory activities	Laboratory Permanent Facility					
Discipline	Chemical	Chemical Group Water				
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025			
Date of Analysis	22.10.2025	Date of Complete	27.10.2025			
Sampling Location & Coordinates	Lat-21°57'20.53"N & Long-85	SW1 - River Baitarani, Near Village Jalahuri; Lat-21°57'20.53"N & Long-85°26'31.28"E SW2 - Dalco nala Near Tata Pump House No.7;				
Sampling Method		As Per APHA 24th ED: 1060B:2023				

Sl.No).	Parameter	Testing Methods	Unit	Standard asper IS-2296 Class-C	SW1	SW2
1.	2	Colour	IS 3025: (Part 4)- 1983	Hazen	300	60	70
2.	4	Turbidity	APHA 24th ED: 2130-B -2023	NTU	Ħ	8.0	11.0
3.	1	рН	APHA 24th ED 4500- H+B:2023		6.5-8.5	7.24	7.28
4.	3	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	[176.0	179.3
5.	6	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	108.0	110.0
6.	5	Chloride(as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	16.0	18.0
7.	8	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02	<0.02
8.	8	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
9.	11	Iron(as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	50	0.25	0.27
10.	10	Sulfate(asSO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	3.4	3.8
11.	9	Fluoride(as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	<0.05	< 0.05





Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
12	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	0.1	<2.0	<2.0
13	Dissolved oxygen	APHA 24th ED 4500 O- C:2023	mg/l	4	6.7	6.6
14	BOD (3)days at 27°C	IS 3025 (PART 44): 1993 REA-2009	mg/l	3.0	<2.0	<2.0
15	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l		7.4	8.8

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

GREENFORCE ASSOCIATES PRIVATE LIMITED
PHIST AREST SANO

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBAITESVICATE MANAGER

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END OF REPORT

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Report No-GFAPL/25-26/SMK/106

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034						
Nature of Sampling	Surface Water	 					
Sampling By	GFAPL's Representative						
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the					
Discipline	Chemical	Chemical Group Water					
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025				
Date of Analysis	22.10.2025	Date of Complete	27.10.2025				
Sampling Location & Coordinates	Lat-21°57'20.53"N & Long-85°26	SW1 - River Baitarani, Near Village Jalahuri; Lat-21°57'20.53"N & Long-85°26'31.28"E SW2 - Dalco nala Near Tata Pump House No.7;					
Sampling Method	As Per APHA 24th ED: 1060B:2023						

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
1.	Nitrate (as NO3)	APHA 24th ED 4500- NO3-B: 2023	mg/l	50	1.22	1.36
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l	i see	<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	< 0.02	< 0.02
4.	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	< 0.01	< 0.01
5.	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	0.06	0.09
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	0.2	< 0.001	< 0.001
7.	Selenium (as Se)	APHA 3114 B	mg/l	0.05	< 0.001	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	< 0.001	< 0.001
9.	Total Coliform	APHA 24th ED 9222- H: 2023	MPN/100ml	5000	900	900

Reviewed RNALYST

BOCTATES PRIVATE LIMITED

DEANESWAR ODISHA

TECHNICAL MANAGER
GREENFORCE ASSOCIATION REPORTED LIMITED
BHUBANE SWAR 2001SHA

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Report No-GFAPL/25-26/ SMK/107

Issued Date-04.11.2025

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034					
Nature of Sampling	Surface Water					
Sampling By	GFAPL's Representative					
Location of performance of Laboratory activities	Laboratory Permanent Facility	aboratory Permanent Facility Deviation from the method (if any)				
Discipline	Chemical	Group	Water			
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025			
Date of Analysis	22.10.2025	Date of Complete	27.10.2025			
Sampling Location & Coordinates	Lat- 21°57'21.91"N; Long- 85°22'0 SW4 - SunaNadi(Downstream of Lat-21°58'2.07"N; Long- 85°22'27	SW3 - SunaNadi(Upstream of mine lease area); Lat- 21°57'21.91"N; Long- 85°22'8.76"E; SW4 - SunaNadi(Downstream of mine lease area); Lat-21°58'2.07"N; Long- 85°22'27.96"E;				
Sampling Method	As Per APHA 24th ED: 1060B:	As Per APHA 24th ED: 1060B:2023				

Sl. No.	Parameter	Testing Methods	Unit	Standard asper IS-2296 Class-C	SW3	SW4
1	Colour	IS 3025: (Part 4)- 1983	Hazen	300	90	100
2.	Turbidity	APHA 24th ED: 2130-B -2023	NTU		14	15
3.	pН	APHA 24th ED 4500- H+B:2023	322	6.5-8.5	7.23	7.29
4.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm		182.6	190.7
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	112.0	117.0
6.	Chloride(as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	15.0	20.0
7.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02	<0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
9.	Iron(as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	50	0.27	0.3
10.	Sulfate(asSO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	4.4	5.1
11.	Fluoride(as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	<0.05	< 0.05





Sl.No.	Parameter	Testing Methods	Unit	Standard asper IS- 2296 Class-C	SW3	SW4
12	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	0.1	<2.0	<2.0
13	Dissolved oxygen	APHA 24th ED 4500 O- C:2023	mg/l	4	6.5	6.4
14	BOD (3) days at27°C	IS 3025 (PART 44): 1993 REA-2009	mg/l	3.0	<2.0	<2.0
15	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	(*** =	10.0	12.0

REMARKS: Laboratory Oil & Grease BDL Value is <2.0

Reviewed By

CHIEF ANALYST

REENFORCE PARTY OF ODISHA

Authorized Signatory
TECHNICAL MANAGER
GREENFORCE ASSOCIATES ARBIGATE LIMITED
BHUBANESSMIRPODISHA

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Report No-GFAPL/25-26/SMK/107

Issued Date-04.11.2025

TEST REPORT

M/s.SreeMetaliks Limited,					
<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034					
Surface Water					
GFAPL's Representative					
Laboratory Permanent Facility					
Chemical	Group	Water			
20.10.2025	Date of Receiving	21.10.2025			
22.10.2025	Date of Complete	27.10.2025			
Lat- 21°57'21.91"N; Long- 85 SW4 - SunaNadi(Downstrea	SW3 - SunaNadi(Upstream of mine lease area) Lat- 21°57'21.91"N; Long- 85°22'8.76"E; SW4 - SunaNadi(Downstream of mine lease area)				
	As Per APHA 24th ED: 1060B:2023				
	Surface Water GFAPL's Representative Laboratory Permanent Facility Chemical 20.10.2025 22.10.2025 SW3 - SunaNadi(Upstream Lat- 21°57'21.91"N; Long- 85 SW4 - SunaNadi(Downstream Lat-21°58'2.07"N; Long- 85°	Surface Water GFAPL's Representative Laboratory Permanent Facility Chemical 20.10.2025 Date of Receiving 22.10.2025 Date of Complete SW3 - SunaNadi(Upstream of mine lease area) Lat- 21°57'21.91"N; Long- 85°22'8.76"E; SW4 - SunaNadi(Downstream of mine lease area) Lat-21°58'2.07"N; Long- 85°22'27.96"E;			

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW3	SW4
1.	Nitrate (as NO3)	APHA 24th ED 4500-NO3-B: 2023	mg/l	50	1.28	1.48
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l		<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	< 0.02	< 0.02
4.	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	< 0.01	< 0.01
5.	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	0.08	0.1
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	0.2	< 0.001	< 0.001
7.	Selenium (as Se)	APHA 3114 B	mg/l	0.05	< 0.001	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	< 0.001	< 0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/100ml	5000	900	900

Reviewed By

Authorized Signatory

GREENFORCE ASSOCIATES PRIVATE LIMITED
CHIEF ANALYST
CHIEF

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESNIAN, UDISHAP Mr. S.K. Parhi

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END OF REPORT

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Report No- GFAPL/25-26/ SMK/108

Issued Date-04.11.2025

Client Name &Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034					
Nature of Sampling	Ground Water						
Sampling By	GFAPL's Representative						
Location of performance of Laboratory activities	Laboratory Permanent Facility	· INC					
Discipline	Chemical	Group	Water				
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025				
Date of Analysis	22.10.2025	Date of Complete	27.10.2025				
Sampling Location & Coordinates	GW1- Open well of Village Jajang; Lat- 21°55'59.08"N; & Long- 85°26'6.58"E; GW2- Open well of Village Jalahuri; Lat- 21°57'7.24"N; & Long- 85°25'16.12"E;						
Sampling Method	As Per APHA 24th ED: 1060	B:2023					

SI.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
No.				AL	PL		
1.	Colour	IS 3025: (Part 4)- 1983	Hazen	5	15	<5.0	<5.0
2.	Turbidity	APHA 24th ED: 2130-B -2023	NTU	1	5	<1.0	<1.0
3.	pH Value @250C	APHA 24th ED 4500- H+B:2023	### ###	6.5-8.5	NR	7.19	7.22
4.	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	500	2000	185.0	197.0
5.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	27.0	28.0
6.	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	106.0	115.0
7.	Calcium	APHA 24th Ed 3500- Ca- B:2023	mg/l	75	200	26.90	30.10
8.	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	9.5	9.7





SI. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
140.				AL	PL		
9.	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	101.0	110.0
10.	Residual Free Chlorine	APHA 24th ED 4500 CL-B:2023	mg/l	0.2	1.0	<0.2	<0.2
11.	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	0.05	NR	<0.02	<0.02
12.	Total Chromium	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	NR	<0.05	< 0.05
13.	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.3	NR	0.18	0.2
14.	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	3.40	3.80
15.	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	<0.05	< 0.05
16.	Boron	APHA 24th ED 4500 B-B:2023	mg/l	0.5	1.0	<0.01	<0.01
17.	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l	0.1	0.3	<0.05	<0.05
18.	Sodium as Na	APHA 24th ED 3500- Na-B	mg/l			16.2	16.7
19.	Potassium as K	APHA 24th ED 3500- K-B	mg/l			1.6	1.6

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

GREENFORCE ASSOCIATES PRIVATE LIMITED

CHIPURANESWAR, ODISHA

Miss. Arti Sahoo

Authorized Signatory
TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Mr. S.K. Parhi

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END OF REPORT
--2 of 4--



Report No- GFAPL/25-26/ SMK/108

Issued Date-04.11.2025

Client Name & Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034					
Nature of Sampling	Ground Water	7					
Sampling By	GFAPL's Representative	J11					
Location of performance of Laboratory activities	Laboratory Permanent Facility						
Discipline	Chemical	Chemical Group Water					
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025				
Date of Analysis	22.10.2025	Date of Complete	27.10.2025				
Sampling Location & Coordinates	GW1- Open well of Village Jajang; Lat- 21°55'59.08"N; & Long- 85°26'6.58"E;						
Sampling Method	As Per APHA 24th ED: 1060						

Sl.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
No.				AL	PL		
1.	Odour	APHA 24th ED: 2150-B - 2023		Agreeable	Agreeable	U/O	U/O
2.	Taste	APHA 24th ED: 2160-B 24th ED	i ene	Agreeable	Agreeable	AL	AL
3.	Nitrate	APHA 24th ED 4500-NO3-E: 2023	mg/l	45	NR	1.06	1.14
4.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	<0.001	<0.001
5.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	< 0.02	< 0.02
6.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	<0.02	<0.02
7.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	<0.01	<0.01
8.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.01	NR	< 0.001	< 0.001
9.	Mercury (as Hg)	APHA 24th ED3500Hg: 2023	mg/l	0.001	NR	<0.001	< 0.001



Sl.No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
				AL	PL		
10.	Arsenic (as As)	APHA24th ED 3500As: 2023	mg/l	0.01	0.05	<0.001	< 0.001
11.	Aluminum (as Al)	APHA24th ED 3500AI: 2023	mg/l	0.03	0.2	< 0.01	<0.01
	Mineral Oil	APHA 24th ED5220B: 2023	mg/l	0.5	NR	ND	ND
	Anionic Detergents (as MBAS)	APHA24th ED 5540 C: 2023	mg/l	0.2	1.0	ND	ND
	Phenolic Compound (as C6H5OH)	APHA 24th ED 5530 B,D: 2023	mg/l	E445	344	<0.001	< 0.001
15.	Total Coliforms	APHA 24th ED 9222-H: 2023	100/MPN			<1.8	<1.8

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

Reviewed By

GREENFORGE ASSOCIATES PRIVATE LIMITED

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES ARBYCATE LIMITED

BHUBANGSWARPGEISHA

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Report No- GFAPL/25-26/ SMK/109

Issued Date-04.11.2025

Client Name &Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034					
Nature of Sampling	Ground Water	.9					
Sampling By	GFAPL's Representative						
Location of performance of Laboratory activities	Laboratory Permanent Facility						
Discipline	Chemical	Group	Water				
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025				
Date of Analysis	22.10.2025	Date of Complete	27.10.2025				
Sampling Location & Coordinates	GW3- Open well of Village Khandbandh; Lat- 21°55'25.97"N; & Long- 85°23'17.72"E; GW4- Open well near Jurudi; Lat- 21° 56' 59.26"N; & Long- 85° 25' 35.44"E						
Sampling Method	As Per APHA 24th ED: 1060						

SI.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
140.				AL	PL		
1	Colour	IS 3025: (Part 4)- 1983	Hazen	5	15	<5.0	<5.0
2	Turbidity	APHA 24th ED: 2130-B -2023	NTU	1	5	<1	<1
3	pH Value @25°C	APHA 24th ED 4500- H+B:2023	==	6.5-8.5	NR	7.18	7.16
4	Total Dissolved Solids(TDS)	APHA 24th ED 2540-C: 2023	mg/l	500	2000	189.0	188.0
5	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	26.0	27.0
6	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	112.0	109.0
7	Calcium	APHA 24th Ed 3500- Ca- B:2023	mg/l	75	200	27.70	28.50
8	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	10.5	9.2





Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
140.				AL	PL		
9	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	104.0	101.0
10	Residual Free Chlorine	APHA 24th ED 4500 CL-B:2023	mg/l	0.2	1.0	<0.2	<0.2
11	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	0.05	NR	<0.02	<0.02
12	Total Chromium	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.5	NR	<0.05	<0.05
13	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.3	NR	0.17	0.16
14	Sulfate	APHA 24th ED 4500-SO4 D: 2023	mg/l	200	400	3.90	4.10
15	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	<0.05	<0.05
16	Boron	APHA 24th ED 4500 B-B:2023	mg/l	0.5	1.0	<0.01	<0.01
17	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l	0.1	0.3	<0.05	<0.05
18	Sodium as Na	APHA 24th ED 3500- Na-B	mg/l	(***)	-	15.5	16.3
19	Potassium as K	APHA 24th ED 3500- K-B	mg/l) *** .		1.5	1.5

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

EASSOCIATES PRIVATE LIMITED

Hiss. Arti Sahoo

Note:

Authorized Signatory TECHNICAD/MANAGER GREENFORCE ASSOCIANCES PRIVATE LIMITED

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Report No- GFAPL/25-26/ SMK/109

Issued Date-04.11.2025

Client Name & Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034					
Nature of Sampling	Ground Water						
Sampling By	GFAPL's Representative						
Location of performance of Laboratory activities	Laboratory Permanent Facility						
Discipline	Chemical	Group	Water				
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025				
Date of Analysis	22.10.2025	Date of Complete	27.10.2025				
Sampling Location & Coordinates	GW3- Open well of Village Khandbandh; Lat- 21°55'25.97"N; & Long- 85°23'17.72"E GW4- Open well near Jurudi; Lat- 21° 56' 59.26"N; & Long- 85° 25' 35.44"E						
Sampling Method	As Per APHA 24th ED: 1060						

SI.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
No.				AL	PL		
1	Odour	APHA 24th ED: 2150-B - 2023		Agreeable	Agreeable	U/O	U/O
2	Taste	APHA 24th ED: 2160-B 24th ED		Agreeable	Agreeable	AL	AL
3	Nitrate	APHA 24th ED 4500-NO3-E: 2023	mg/l	0.2	1.0	1.28	1.11
4	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	<0.001	<0.001
5	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	<0.02	< 0.02
6	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	<0.02	< 0.02
7	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	<0.01	< 0.01
8	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	NR-	<0.001	< 0.001
9	Mercury (as Hg)	APHA 24th ED3500Hg: 2023	mg/l	0.001	NR	< 0.001	< 0.001



SI.	Parameter	Testing Methods	Unit	Standar IS: 1050	-	GW3	GW4
				AL	PL		
10	Arsenic (as As)	APHA24th ED 3500As: 2023	mg/l	0.01	0.05	<0.001	< 0.001
11	Aluminum (as Al)	APHA24th ED 3500Al: 2023	mg/l	0.03	0.2	<0.01	< 0.01
12	Mineral Oil	APHA 24th ED5220B: 2023	mg/l	0.5	NR	ND	ND
	Anionic Detergents (as MBAS)	APHA24th ED 5540 C: 2023	mg/l	0.2	1.0	ND	ND
	Phenolic Compound (as C6H5OH)	APHA 24th ED 5530 B,D: 2023	mg/l			<0.001	<0.001
14	Total Coliforms	APHA 24th ED 9222-H: 2023	100/MPN	0.2	NR	<1.8	<1.8

REMARKS: NR- not relaxable; AL-Acceptable Limit; PL- Permissible Limit;

Reviewed By

CHIEF ANALYST DEPATES PRIVATE LIMITED RCE ANESWAR, ODISHA Chief Analyst GREENFORCE

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER GREENFORCE ASSOCIATES PRIVATE LIMITED BHUBANESWAR, ODISHA

Technical Manager Mr. S.K. Parhi

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Report No- GFAPL/25-26/ SMK/110

Issued Date-04.11.2025

Client Name & Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034			
Nature of Sampling	Surface Runn off			
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025	
Date of Analysis	22.10.2025	Date of Complete	27.10.2025	
Sampling Location & Coordinates	Surface Run Off near Khai	idbandh Mines		

Sl. No	Parameter	Testing Methods	Unit	Standard as per IS- 2296 Class-C	Result
1,	Colour	IS 3025: (Part 4)- 1983	Hazen	300	60
2.	pH Value @250C	APHA 24th ED 4500- H+B:2023		6.0-9.0	7.24
3.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm		213.2
4.	Total Dissolved Solids (TDS)	APHA 24th ED 2540-C: 2023	mg/l	1500	130.0
5.	Total Suspended Solid (TSS)	APHA 24th ED 2540-D: 2023	mg/l		106.0
6.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	26.00
7.	Cyanide	APHA 24th ED 4500-CN-F	mg/l	0.05	< 0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	< 0.05
9.	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.5	0.33
10.	Sulfate as SO4	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	7.2
11.	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	0.06
12.	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l		< 0.05





Sl.No	Parameter	Testing Methods	Unit	Standard as per IS- 2296 Class-C	Result
13.	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l		<2.0
14.	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.5
15.	BOD (3)days at27°C	IS 3025 (PART 44): 1993 REA- 2009	mg/l	3	<2.0
16.	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	#	10

Verified By

GREENFORDERAGEOCHATES PRIVATE LIMITED
MENUBANISHMAR. ODISHA

Authorized By

GREENFORCE ASSOCIATES PRIVATE LIMITED

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Report No-GFAPL/25-26/SMK/110

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034			
Nature of Sampling	Surface Run off			
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025	
Date of Analysis	22.10.2025	Date of Complete	27.10.2025	
Sampling Location & Coordinates	Surface Run Off near Khai	idbandh Mines	- 1	

Sl.N o.	Parameter	Testing Methods	Unit	Standard as per IS- 2296 Class-C	Result
1,.,	Nitrate (as NO3)	APHA 24th ED 4500-NO3-B: 2023	mg/l	50	2.32
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l	****	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	1.5	0.08
4.	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	< 0.01
5.	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	0.16
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	0.2	< 0.001
7.	Selenium (as Se)	APHA 3114 B	mg/l	0.05	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.01	< 0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/100ml	5000	900

Verified By

Authorized By

GREENFORCE ASSOCIATES PRIVATE LIMITED
BALLES AND ODISHA

GREENFORCE ASSOCIATES PRIVATE LIMITED

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Report No-GFAPL/25-26/SMK/111

Issued Date-04.11.2025

TEST REPORT

Client Name &Address	M/s.SreeMetaliks Limited, At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034				
Nature of Sampling	Ground Water Level				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	20.10.2025				
Sampling Method	As Per CPCB Guidelines				

Sl. No.	Locations	Result
1	GWL1- Open well of Village Jajang; Lat- 21°55'59.08"N; & Long- 85°26'6.58"E;	3.6 m
2	GWL2- Open well of Village Jalahuri; Lat- 21°57'7.24"N; & Long- 85°25'16.12"E;	3.2 m
3	GWL3- Open well of Village Khandbandh; Lat- 21°55'25.97"N; & Long- 85°23'17.72"E;	3.9 m
4	GWL4- Open well near Jurudi;	4.2 m
	Lat- 21° 56' 59.26"N; & Long- 85° 25' 35.44"	

Reviewed By

Authorized Signatory

GREENFORCE ASSOCIATES PRIVATE LIMITED
CHIUSANESWAR, ODISHA

Miss. Arti Sahoo

Miss, Altiban

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANDERSHA

Mr. S.K. Parhi

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Report No- GFAPL/25-26/ SMK/112

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh,Joda; Dist-Keonjhar,Odisha-758034				
Nature of Sampling	Soil				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Soil and Rock		
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025		
Date of Analysis	22.10.2025	Date of Complete	27.10.2025		
Sampling Location &	S1- Within Lease Area: Lat-21° 57′ 34.13"N, Long- 85° 22′ 37.8192"E				
Coordinates					
Sampling Method	As Per TNAU Agri Portal				

Sl.	_			Analysis Results	
No.	Parameters	Testing Methods	Unit	S-1	
1	pН			6.34	
2	Organic Carbon	IS: 2720(Part-26)-1987	%	0.91	
3	Moisture content	IS: 2720(Part-22)-1972	%	9.2	
4	Specific Gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.7	
5	Sulphate	IS: 2720(Part-2)-1973	mg/kg	64	

Reviewed By

CHIEF ANALYST

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWARLODIGHER

Mr. S.K. Parhi

BHUBANESVAR. ODISHA Miss. Arti Sahoo Note:

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END OF REPORT

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Report No- GFAPL/25-26/ SMK/112

Issued Date-04.11.2025

TEST REPORT

Client Name & Address	<i>M/s.SreeMetaliks Limited</i> , At/Po-Khandbandh, Joda; Dist-Keonjhar, Odisha-758034				
Nature of Sampling	Soil				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Soil and Rock		
Date of Sampling	20.10.2025	Date of Receiving	21.10.2025		
Date of Analysis	22.10.2025	Date of Complete	27.10.2025		
Sampling Location & Coordinates	S1- Within Lease Area: Lat	- 21° 57′ 34.13″N, Long- 85	° 22' 37.8192"E		
Sampling Method	As Per TNAU Agri Portal				

SI.	_			Analysis Results
No.	Parameters	Testing Methods	Unit	S-1
1,4	Colour	GFAPL/SOP/Soil & Rock/01-23		Brown
2.	Electrical conductivity	IS:14767: 2000	μs/cm	204.2
3.	Soil Texture	GFAPL/SOP/Soil & Rock/02-23		Sandy loamy
4.	Bulk Density	GFAPL/SOP/Soil & Rock/03-23	gm/cc	1.35
5.	Calcium as Ca	IS: 2720(Part-23)	mg/kg	402
6.	Magnesium as Mg	GFAPL/SOP/Soil & Rock/04-23	mg/kg	194
7.	Nitrogen as N	IS:14684: 1999	kg/hec	50
8.	Phosphorus	GFAPL/SOP/Soil & Rock/05-23	kg/hec	20
9.	Potassium	GFAPL/SOP/Soil & Rock/06-23	mg/kg	156
10.	Chloride	GFAPL/SOP/Soil & Rock/07-23	mg/kg	124
11.	Manganese as Mn	GFAPL/SOP/Soil & Rock/08-23	mg/kg	7.56
12.	Iron	GFAPL/SOP/Soil & Rock/09-23	%	2.88

Reviewed By NALYST
CHIEF ANALYST
GREENFORGE AND CLATES PRIVATE LIMITED
MEHUBANES 2000. ODISHA

Authorized Signatory
TECHNICAL CANAGER
GREENFORCE ASSOCIATE STREAM LIMITED
BHUBANESWAR, ODISHA

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