



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Ref. No. ERSIPL/ ES & GA/SML-KIOM-R&B/2022-10-01/ 224

Date..... 01 Oct 2022.....

To
The Mines Manager,
M/s Khandbandh Iron Ore Mines of M/s Sree Metaliks Limited,
Khandbandh, Joda,
Keonjhar-758034

Sub. : Environmental parameters monitoring on regular basis for the year 2022-23.
Report for the Month of Sept-2022.
Ref. : Work Order No- SML/BBL/KIOM-ENV-WO-084/2022-23 Dated 08/06/2022

Dear Sir,

With reference to the above we are enclosing here with the following documents to you regarding Monthly Monitoring for your kind reference and need full action please.

- Ambient Air Quality Monitoring and Analysis Report for the month of Sept-2022(08 locations).
- Fugitive Emission Monitoring and Analysis Report for the month of Sept-2022(06 locations).
- Drinking Water Sample Analysis Report for the month of Sept-2022 (02 samples).
- Ground Water Sample Analysis Report for the month of Sept-2022 (03 samples).
- Surface Water Sample Analysis Report for the month of Sept-2022(04 samples).
- Surface Water Run-off Sample Analysis Report for the month of Sept-2022(01 samples)
- Ground Water Level Report for the month of Sept-2022 (04 locations).
- Surface Water Flow Rate Report for the month of Sept-2022(04 locations).
- Effluent Water Sample Analysis Report for the month of Sept-2022 (02 samples)
- Noise Level Measurement Report for the month of Sept-2022(08 locations).

Please note that water level measurement & water sample collection of Bore well village Khandbandh, Near OMC Colony could not carried out due to technical/logistical issues during visit of our technical staff to the site.

Thanking you,

Yours truly,

for Environmental Research and Services (India) Pvt. Ltd.

Arendhati Singh

(Managing Director)

Encl: As above

d/c



Environmental Research and Services (India) Pvt. Ltd.

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Certificate No.: TC-7440

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ULR-TC744022000000367F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 27 Sept 2022

Test Report No: ERSIPL/TR/AA/138

Name and Address of the Customer : Khandbandh Iron Ore Mines of M/s Sree Metaliks Ltd
Khandbandh, Joda, Keonjhar-758034

Sample Collected by : Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of : Representative of Customer.

Date of Sampling/Monitoring : 03-04.09.2022

Sample Received on : 06.09.2022

Analysis Started on : 07.09.2022

Analysis Completed on : 14.09.2022

Method of Sampling : ERSIPL/MSP/06

Quantity of Sample : 01 sample for each parameter

Environment Condition : Sunny

Sample ID. No.

1. ERSIPL/AA/526
2. ERSIPL/AA/527
3. ERSIPL/AA/528
4. ERSIPL/AA/529

Locations (Core Zone)

1. Near Mines Office
2. Near Pillar No- F1
3. Near Work Shop, Pillar No. B
4. Near Pillar No.C2

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov 2009	Results			
					ERSIPL/AA/526	ERSIPL/AA/527	ERSIPL/AA/528	ERSIPL/AA/529
1	Particulate Matter (size less than 10 µm) or PM 10	IS 5182(Part 23): 2006, Reaffirmed-2017, Gravimetric Method	µg/m ³	100.0	60.40	67.97	61.25	68.06
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	µg/m ³	60.0	30.44	29.23	25.52	30.90
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	7.41	7.74	8.68	8.22
4	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	11.36	10.04	10.55	11.31

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager



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Pg No: 1 of 1

Date: 27 Sept 2022**Test Report No: ERSIPL/TR/AA/T-138**

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Analysis Started on : 07.09.2022

Analysis Completed on : 14.09.2022

Method of Sampling : As per guidelines for sampling & measurement of notified
AAQ parameters (NAAQS 2009)-CPCB

Quantity of Sample : 01 sample for each parameter

Environment Condition : Sunny

Sample ID. No.

1. ERSIPL/AA/526
2. ERSIPL/AA/527
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Locations (Core Zone)

1. Near Mines Office
2. Near Pillar No- F1
3. Near Work Shop, Pillar No. B
4. Near Pillar No.C2

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit	Results			
					ERSIPL / AA/ 526	ERSIPL / AA/ 527	ERSIPL / AA/ 528	ERSIPL / AA/ 529
1	Ozone (O ₃) 8 Hrly	As per Guidelines for the measurement of Ambient Air Pollutants, Vol - I, CPCB, May 2011	µg/m ³	100.0	20.4	20.6	27.2	20.4
2	Lead (Pb)		µg/m ³	1.0	ND	ND	ND	ND
3	Arsenic (As)		ng/m ³	6.0	ND	ND	ND	ND
4	Nickel (Ni)		ng/m ³	20.0	ND	ND	ND	ND
5	Ammonia (NH ₃),		µg/m ³	400.0	ND	ND	ND	ND
6	Benzene (C ₆ H ₆),		µg/m ³	5.0	ND	ND	ND	ND
7	Benzo(a)Pyrene (BaP) Particulate phase only		ng/m ³	1.0	ND	ND	ND	ND
8	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14


(Authorized Signatory)
S.P. Pattanayak
Tech. Manager

.....END OF TEST REPORT.....



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Environment Condition : Sunny

Sample ID. No.

1. ERSIPL/AA/530
2. ERSIPL/AA/531
3. ERSIPL/AA/532
4. ERSIPL/AA/533

Locations (Buffer Zone)

1. Near Village Jalahuri
2. Near village Bichhakhund
3. Near village Ganua
4. Near village Khandbandha

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov- 2009	Results			
					ERSIPL/ AA/ 530	ERSIPL/ AA/ 531	ERSIPL/ AA/ 532	ERSIPL/ AA/ 533
1	Particulate Matter (size less than 10 μm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed-2017, Gravimetric Method	$\mu\text{g}/\text{m}^3$	100.0	60.20	61.05	69.18	68.81
2	Particulate Matter (size less than 2.5 μm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	$\mu\text{g}/\text{m}^3$	60.0	27.42	28.90	27.62	28.93
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	$\mu\text{g}/\text{m}^3$	80.0	7.71	9.31	7.87	8.19
4	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	$\mu\text{g}/\text{m}^3$	80.0	10.67	12.22	11.83	12.71


(Authorized Signatory)
S.P. Pattanayak
Tech. Manager

.....END OF TEST REPORT.....

