

REGISTERED OFFICE

'SATYALAYA', No.266
Ward No.1, Palace Road
Sandur - 583 119, Ballari District
Karnataka, India
Tel: +91 8395 260301/ 283173-199
Fax: +91 8395 260473



CORPORATE OFFICE

'SANDUR HOUSE', No.9
Bellary Road, Sadashivanagar
Bengaluru - 560 080
Karnataka, India
Tel: +91 80 4152 0176 - 79 / 4547 3000
Fax: +91 80 4152 0182

Ref No: SMIORE/MINES/ENV/2024-25/2679/1154

09 December 2024

To,
The Environmental Officer,
Karnataka State Pollution Control Board,
Ward No.25, 4th Main Road,
Kuvempu Nagar,
Ballari - 583104



Dear Sir,

Sub: Submission of reports pertaining to monitoring of environmental parameters for the month of November 2024 in respect of Mining Lease No. 2679.

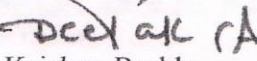
Ref: 1. EC Identification No. EC24B0000KA5391575N dated 01 September 2024.
2. Consent for Operation No. AW-337273 dated 10 April 2023.

With reference to the letters cited above, we are enclosing herewith environmental monitoring reports prepared after monitoring the stipulated environmental parameters for the month of November 2024 in respect of Mining Lease No. 2679 of The Sandur Manganese & Iron Ores Limited.

Kindly acknowledge the receipt of the reports.

Thank you,

for The Sandur Manganese & Iron Ores Limited,


Krishna Reddy
Vice President - Mines Operations



Encl: Monitoring Reports

MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District
Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066

PLANT OFFICE: Metal & Ferroalloy Plant, Vyasankere, Mariyammanahalli - 583 222, Hosapete Taluk, Ballari District
Tel: +91 8394 244450 / 244335



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**ENVIRONMENTAL LABORATORY (UNIT OF MINERAL
ENGINEERING SERVICES)**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

#948, 2ND CROSS, ST. THOMAS TOWN POST, KAMMANAHALLI MAIN ROAD, BENGALURU,
BENGALURU URBAN, KARNATAKA, INDIA

in the field of

TESTING

Certificate Number: TC-6172

Issue Date: 24/05/2023

Valid Until: 23/05/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : ENVIRONMENTAL LABORATORY (UNIT OF MINERAL ENGINEERING SERVICES)

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



सम 2023 INDIA
सर्वोच्च गति
Speed Post

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE GOVT OF INDIA

F.No. LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./ (601

Dated: 28th January 2023
07th June 2023

Recognition Certificate

To,

Head of Laboratory,
M/s Environmental Laboratory (Unit of Mineral Engineering Services),
#948, 2nd Cross, St. Thomas Town Post, Kammanahalli Road, Bengaluru--560084,
Karnataka.

Subject: Recognition of M/s Environmental Laboratory (Unit of Mineral Engineering Services), #948, 2nd Cross, St. Thomas Town Post, Kammanahalli Road, Bengaluru--560084, Karnataka, as Environmental laboratory under the Environmental (Protection) Act- 1986.

Sir,

I am directed to refer the online application, dated 27/10/2022 for the recognition of your laboratory under Environmental (Protection) Act, 1986. Based on the recommendations of the concerned Division, approval of Competent Authority for recognition of Environmental laboratories and your acceptance of the revised terms and conditions at Annexure-III & IV of the guidelines for recognition of environmental laboratories, CPCB approves the renewal of recognition M/s Environmental Laboratory (Unit of Mineral Engineering Services), #948, 2nd Cross, St. Thomas Town Post, Kammanahalli Road, Bengaluru--560084, Karnataka and shall be notified in the Gazette of India. Considering the current requirement of mandatory accreditation/ certifications of the laboratory, this recognition shall be valid up to 23/05/2025.

2. As sought in the aforementioned application, M/s Environmental Laboratory (Unit of Mineral Engineering Services), #948, 2nd Cross, St. Thomas Town Post, Kammanahalli Road, Bengaluru--560084, Karnataka may undertake the following tests:

- Physical Tests**-Conductivity, Colour, pH, Fixed & Volatile Solids, Total Solids, Total Dissolved Solids, Total Suspended Solids, Turbidity, Temperature, Velocity & Discharge Measurement of Industrial Effluent Stream, Flocculation Test (Jar test), Odour, Salinity, Settleable Solids and Sludge Volume Index.
- Inorganic (General and Non-metallic):** Acidity, Alkalinity, Ammonical Nitrogen, Chloride, Chlorine Residual, Dissolved Oxygen, Fluoride, Total Hardness, Total Kjeldahl Nitrogen (TKN), Nitrite Nitrogen, Nitrate Nitrogen, Phosphate, Sulphate, Silica, Cyanide and Sulphide.
- Inorganic (Trace Metals):** Boron, Cadmium, Calcium, Total Chromium, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio, Zinc, Arsenic, Aluminium, Barium, Selenium, Tin, Antimony, Cobalt and Vanadium,
- Organics (General) and Trace Organics:** Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenolic Compounds, Pesticides (each) (Organo-Chlorine and Organo Nitrogen-Phosphorus), Surfactant, Tanin & Lignin, Poly-Chlorinated biphenyl (PCB's) each, Poly-Nuclear Aromatic Hydrocarbon (PAH).
- Microbiological Test:** Total Coliform, Faecal Coliform, *E. coli*, *Faecal Streptococci* and Total Plate Count.
- Toxicological Tests:** Bioassay Method for Evaluation of Toxicity using Fish and Measurement of Toxicity Using *Daphnia* or Other Organism.
- Biological Test:** Macrophytic Identification, Planktonic Identification Count and Chlorophyll.

‘परिवेश भवन’ पर्वी अर्जुन नगर, दिल्ली-110032

Contd.

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

- viii. **Characterization of Hazardous Waste:** Corrosivity, Ignibility (Flash point) and Measurement of Heavy Metals/Pesticides in the Waste/Leachate.
- ix. **Soil/Sludge/Sediment and Solid Waste:** Boron, Cation Exchange Capacity (CEC), Electrical Conductivity, Nitrogen (Available), Organic Carbon/Matter (Chemical Method), pH, Phosphorous (Available), Phosphate (Ortho), Phosphate (Total), Potassium, SAR in Soil Extract, Sodium, Soil moisture, TKN, Calorific Value, Ammonia, Bicarbonate, Calcium, Calcium Carbonate, Chloride, Colour, H.Acid, Heavy Metal, Magnesium, Nitrate, Nitrite, PAH, Pesticide, Potash (Available), Sulphate, Sulphur, Total Organic Carbon, Total Water Soluble Salt and Water Holding Capacity.
- x. **Ambient Air/ Fugitive Emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, Carbon Monoxide, Chlorine, Lead, Ozone, Benzene Toluene Xylene (BTX), Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrene & others and PM_{2.5}.
- xi. **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Total Hydrocarbon, Hydrogen Sulphide and Carbon Disulphide.
- xii. **Noise Level:** Noise Level Measurement (20-140 dBA) and Ambient Noise and Source Specific Noise.
- xiii. **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity, Solar Radiation and Rainfall.

3. Further, the following analysts have been approved as Government Analysts.

- i. M. Sachin Raju
- ii. Binu Mani
- iii. Arshiya Kousar

- 4. The laboratory shall compulsorily participate in the Analytical Quality Exercise conducted by the Central Pollution Control Board (CPCB) to ascertain the capability of the laboratory and analysis carried out and shall submit quarterly progress report to CPCB.
- 5. The surprise inspection/periodic surveillance of the recognized environment laboratory will be undertaken by CPCB to assess its proper functioning systematic operation and reliability of data generated at the laboratory.
- 6. It is also mandatory for the laboratory to have requisite accreditations of the ISO: 17025 and ISO:45001 and its renewal as per accreditation rules. This recognition is subject to such accreditations and renewals as applicable. The laboratory is required to apply online for further renewal of recognition through CPCB web portal after renewal of the mandatory accreditations / certifications concerned.
- 7. The laboratory should compulsorily follow the accepted terms and conditions. In case of serious non-compliance of any of the terms and conditions, the laboratory may be black listed for a minimum period of two years and civil/criminal proceedings, as applicable, may be initiated for performing functions on behalf of the Government in an unauthorized manner.

Yours faithfully,

डॉ. के. रंगनाथन / Dr. K. Ranganathan
 वैज्ञानिक 'E' सरकारी विश्लेषक / Scientist 'E' Govt. Analyst
 केंद्रीय प्रदूषण नियंत्रण बोर्ड
 Central Pollution Control Board
 पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
 (Mo Environment, Forest & Climate Change, Govt. of India)
 परियेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
 Pariyesh Bhawan, East Arjun Nagar, Delhi-110032

K. Ranganathan 7/6/23
 (Dr. K. Ranganathan)
 Scientist-E & Divisional Head
 Instrumentation laboratory

ENVIRONMENTAL MONITORING REPORT

November, 2024

Project : Ramgad Manganese Ore Mine
ML No. 2679
Ramgad Village, Sandur Taluk,
Ballari Dist., Karnataka.

Lessee

The Sandur Manganese & Iron Ores Limited

ENVIRONMENTAL LABORATORY
(Unit of Mineral Engineering Services)
(Accredited by NABL &, MOEF&CC Under E(P) 1986)
#948, 2nd Cross, Kammanahalli Main Road,
St Thomas Town Post, Bangalore- 560 084, Karnataka,

LIST OF TABLES

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No.1

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A1, Core Zone (ML Area)
 Duration : 24 Hrs
 Issue date : 02.12.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0128	7	13	52	32	0.33
09.11.2024	N/24/11/3-0203	9	11	47	22	0.21
15.11.2024	N/24/11/4-0131	7	11	38	19	0.20
16.11.2024	N/24/11/4-0193	7	9	49	26	0.36
18.11.2024	N/24/11/5-0001	9	11	52	28	0.27
19.11.2024	N/24/11/5-0045	6	9	39	21	0.25
27.11.2024	N/24/11/5-0135	6	10	55	32	0.23
28.11.2024	N/24/11/5-0167	11	15	45	26	0.42
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

Arshiya Kousar
 ARSHIYA KOUSAR
 Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
 Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

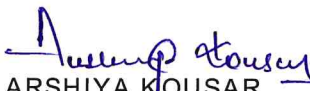
Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No.2

AMBIENT AIR QUALITY

Name of the Client	: The Sandur Manganese & Iron Ores Limited					
Name of the Project	: Mining Lease No. 2679					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code	: A2, Core Zone (Myadara Banda Block)					
Duration	: 24 Hrs					
Issue date	: 02.12.2024					
Reference	IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0130	10	12	40	25	0.36
09.11.2024	N/24/11/3-0205	14	16	53	27	0.25
15.11.2024	N/24/11/4-0133	12	15	31	19	0.25
16.11.2024	N/24/11/4-0195	9	11	45	22	0.36
18.11.2024	N/24/11/5-0003	9	11	51	25	0.21
19.11.2024	N/24/11/5-0047	12	16	54	28	0.42
27.11.2024	N/24/11/5-0137	9	11	35	21	0.36
28.11.2024	N/24/11/5-0169	10	11	40	22	0.30
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr


ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No.3

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A3, Core Zone (Governor Point)
 Duration : 24 Hrs
 Issue date : 02.12.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0131	11	14	54	27	0.25
09.11.2024	N/24/11/3-0206	9	11	45	22	0.42
15.11.2024	N/24/11/4-0134	11	15	38	21	0.36
16.11.2024	N/24/11/4-0196	12	16	55	30	0.22
18.11.2024	N/24/11/5-0004	9	11	48	25	0.35
19.11.2024	N/24/11/5-0048	12	18	54	25	0.29
27.11.2024	N/24/11/5-0138	7	11	58	32	0.22
28.11.2024	N/24/11/5-0170	11	14	36	20	0.31
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

Arshiya Kousar
 ARSHIYA KOUSAR
 Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No.4

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A4, Core Zone (Neerlabi)
 Duration : 24 Hrs
 Issue date : 02.12.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0132	13	13	50	26	0.20
09.11.2024	N/24/11/3-0207	10	14	56	30	0.45
15.11.2024	N/24/11/4-0135	9	10	48	23	0.42
16.11.2024	N/24/11/4-0197	11	16	57	30	0.32
18.11.2024	N/24/11/5-0005	7	9	44	24	0.33
19.11.2024	N/24/11/5-0049	11	13	50	26	0.26
27.11.2024	N/24/11/5-0139	8	10	49	25	0.28
28.11.2024	N/24/11/5-0171	9	10	56	33	0.21
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

Arshiya Kousar
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 Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No.5

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A5, Ramghad village						
Duration : 24 Hrs						
Issue date : 02.12.2024						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0133	7	12	35	19	0.33
09.11.2024	N/24/11/3-0208	13	17	46	23	0.25
15.11.2024	N/24/11/4-0136	7	10	36	17	0.20
16.11.2024	N/24/11/4-0198	10	14	49	25	0.36
18.11.2024	N/24/11/5-0006	11	12	40	23	0.24
19.11.2024	N/24/11/5-0050	10	16	54	29	0.33
27.11.2024	N/24/11/5-0140	9	11	36	20	0.20
28.11.2024	N/24/11/5-0172	7	11	43	26	0.21
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

Arshiya Kousar
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Dy. T.M. - Chemical

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No.6

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A6, Dharmapura village						
Duration : 24 Hrs						
Issue date : 02.12.2024						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0134	12	10	55	27	0.25
09.11.2024	N/24/11/3-0209	6	9	43	23	0.33
15.11.2024	N/24/11/4-0137	10	12	35	18	0.21
16.11.2024	N/24/11/4-0199	8	9	38	22	0.24
18.11.2024	N/24/11/5-0007	11	16	56	30	0.22
19.11.2024	N/24/11/5-0051	9	13	51	26	0.38
27.11.2024	N/24/11/5-0141	7	11	46	25	0.36
28.11.2024	N/24/11/5-0173	9	11	54	28	0.26
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No.7

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A7, Garaga village
 Duration : 24 Hrs
 Issue date : 02.12.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0135	11	14	38	19	0.21
09.11.2024	N/24/11/3-0210	7	9	44	25	0.20
15.11.2024	N/24/11/4-0138	9	11	33	15	<0.2
16.11.2024	N/24/11/4-0200	11	16	54	27	0.21
18.11.2024	N/24/11/5-0008	7	11	45	25	0.25
19.11.2024	N/24/11/5-0052	12	16	49	36	0.31
27.11.2024	N/24/11/5-0142	9	11	39	23	0.20
28.11.2024	N/24/11/5-0174	10	12	43	26	0.22
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

Arshiya Kousar
 ARSHIYA KOUSAR
 Dy. T.M. - Chemical

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TEST REPORT

Table No.8

AMBIENT AIR QUALITY

Name of the Client	: The Sandur Manganese & Iron Ores Limited
Name of the Project	: Mining Lease No. 2679
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Station at & Code	: A8, Yeswanthanagar
Duration	: 24 Hrs
Issue date	: 02.12.2024
Reference	IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0121	8	12	49	32	0.33
09.11.2024	N/24/11/3-0197	8	17	52	29	0.42
11.11.2024	N/24/11/4-0014	7	9	40	21	0.36
12.11.2024	N/24/11/4-0057	13	16	56	30	0.28
22.11.2024	N/24/11/5-0124	11	12	49	26	0.22
23.11.2024	N/24/11/5-0184	12	18	53	27	0.31
25.11.2024	N/24/11/5-0012	11	15	59	29	0.20
26.11.2024	N/24/11/5-0077	9	11	45	25	0.28
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.9

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A9, Subbarayanahalli
 Duration : 24 Hrs
 Issue date : 02.12.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0117	12	15	58	32	0.39
09.11.2024	N/24/11/3-0193	9	11	54	29	0.33
11.11.2024	N/24/11/4-0010	14	18	45	24	0.24
12.11.2024	N/24/11/4-0053	9	14	50	29	0.21
22.11.2024	N/24/11/5-0120	7	13	47	22	0.2
23.11.2024	N/24/11/5-0180	9	12	57	32	0.28
25.11.2024	N/24/11/5-0008	12	13	51	25	0.23
26.11.2024	N/24/11/5-0073	7	12	35	18	0.24
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.10

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A10, Siddapura village
 Duration : 24 Hrs
 Issue date : 02.12.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
08.11.2024	N/24/11/3-0129	10	12	48	25	0.35
09.11.2024	N/24/11/3-0204	7	11	50	26	0.45
15.11.2024	N/24/11/4-0132	9	11	40	20	0.42
16.11.2024	N/24/11/4-0194	12	16	48	24	0.36
18.11.2024	N/24/11/5-0002	6	9	57	29	0.32
19.11.2024	N/24/11/5-0046	11	15	52	27	0.22
27.11.2024	N/24/11/5-0136	9	13	54	26	0.28
28.11.2024	N/24/11/5-0168	9	11	44	22	0.41
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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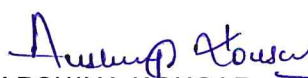
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TEST REPORT

Table No. 11

Fugitive Emission

Name of the Client : The Sandur Manganese & Iron Ores Limited Name of the Project : Mining Lease No. 2679 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Duration : 08 Hrs Issue Date : 02.12.2024			
Station at & Code	Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Loading point	15.11.2024	N/24/11/4-0139	286
FA2, Dumping point	15.11.2024	N/24/11/4-0140	325
FA3, Haulage Road	15.11.2024	N/24/11/4-0141	299
FA4, Stack Yard	16.11.2024	N/24/11/4-0201	225
FA5, Drilling Point	16.11.2024	N/24/11/4-0202	312
FA6, Waste Dumping Point	16.11.2024	N/24/11/4-0203	291
Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment) Particulate mater ($\mu\text{g}/\text{m}^3$) Permissible limits for Fugitive Emissions 600 $\mu\text{g}/\text{m}^3$			


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TEST REPORT

Table No. 12

Analysis Report of Dust Fall Measurement

1	Name of the Client	The Sandur Manganese & Iron Ores Limited
2	Name of the Project	Mining Lease No. 2679
3	Month	01.11.2024 to 30.11.2024
4	Sample Type	Total Dust Fall Rate
5	Duration of Monitoring	One Month
6	Issue Date	02.12.2024

Result

Code	Location	Result	unit	Reference Method
DF1	Mine Office Area	0.018	g/m ² month	IS 5182 (Part 01) : 2006
DF2	Near Crusher Area	0.021	g/m ² month	IS 5182 (Part 01) : 2006

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TEST REPORT AMBIENT NOISE LEVEL DATA

Table No. 13

Report No : ELMES082410

Name of the Client		: The Sandur Manganese & Iron Ores Limited					
Name of the Project		: Mining Lease No. 2679					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)					
Date of monitoring		: 15.11.2024					
Issue Date		: 02.12.2024					
Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Corezone							
N1	Core zone ML Area	40.0	51.0	58.3	34.0	43.0	48.1
N2	Myadara Banda Block	38.2	49.2	56.3	35.0	41.2	44.2
N3	Goerner Point	39.0	53.2	58.0	33.8	40.2	46.5
N4	Neerlabbi	42.0	55.4	61.0	34.0	44.2	50.0
Buffer zone							
N5	Ramgad village	36.7	50.3	56.8	34.0	41.0	44.0
N6	Dharmapura	37.0	47.7	53.9	34.8	39.3	45.0
N7	Garaga village	35.6	45.3	50.0	33.0	37.8	42.8
N8	Yeshwanthanagar	38.2	51.1	57.2	34.0	40.7	46.5
N9	Subbarayanahalli	39.3	50.5	56.0	35.3	41.3	44.8
N10	Siddapura	40.0	51.7	59.0	35.0	43.5	48.0
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines							
Leq. Limit dB(A)							
Day Night							
Industrial areas		75		70			
Commercial area		65		55			
Residential area		55		45			

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TEST REPORT NOISE LEVEL DATA

Table No. 14

Report No : ELMES152411

Name of the Client		: M/s. Sandur Manganese & Iron Ores Limited			
Name of the Project		: Mining Lease No. 2679			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of monitoring		: 16.11.2024			
Issue Date		: 02.12.2024			
Code No.	Monitoring stations	Day			Remarks
		L _{min}	L _{eq}	L _{max}	
Source					
N1	Loading Point	43.0	59.3	66.2	During operation
N2	Dumping Point	44.5	70.3	78.0	During operation
N3	Haulage Road	45.0	73.4	81.0	During operation
Heavy Earth Moving Machineries					
N4	Wheel Loader	43.7	82.3	89.0	During operation in side of the cabin
		41.0	74.6	79.6	During operation 10mts outside of the cabin
N5	Tata Hitachi 200LC	42.0	76.1	82.3	During operation in side of the cabin
		39.0	72.6	78.0	During operation 10mts outside of the cabin
Permissible limits as per ILO Code of Practice					
For Unprotected ear - 8 hrs working shift					
Warning limit - 85 dB(A)					
Danger limit - 90 dB(A)					
Worker not to be exposed for more than 115 dB(A)					
With ear protection -					
130 dB(A) 'Impulse' or 120 dB(A) 'Fast'					
No entry when noise level exceeds 140 dB(A)					
Permissible Limits of Ambient					
Noise Levels as per CPCB Guidelines					
Leq. Limit dB(A)					
Day Night					
Industrial areas 75 70					
Commerecial area 65 55					
Residential area 55 45					

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TEST REPORT

Table No.15

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Particulars of sample collected : SW1 - Ragavapura kere water, SW2 - Dhananayakana kere water
 : SW3 - Narihalla Upstream water, SW4 - Narihalla Downstream water
 Date of sample collection : 15.11.2024
 Issue Date : 30.11.2024

Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)

Sl.No.	Sample Code	SW1	SW2	SW3	SW4	Limits For Stream Water Standards	Method of Testing
	Lab Code	N/24/11/4-0258	N/24/11/4-0259	N/24/11/4-0260	N/24/11/4-0261		
	Parameters	Results					
1	pH	8.30	7.59	7.77	7.69	6.5 to 8.5	IS:3025(Part-11)2022
2	Colour (Hazen Units), Max	20	25	25	20	300	IS:3025(Part-4)2021
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	IS:3025 (P-5) 2018
4	Total Dissolved Solids (mg/l), Max	364	144	372	386	1500	IS:3025(Part-16)2023
5	Total Suspended Solids, mg/l	68	72	84	94	-	IS 3025 (P-17) 2022
6	Dissolved Oxygen (as O ₂), mg/l, Max	5.5	5.2	5.6	5.4	Min 4	IS:3025(Part-38)1989RA 2019
7	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	<3.0	<3.0	<3.0	3	IS:3025(P-44) 2014
8	Oil & Grease, mg/l	<0.1	<0.1	<0.1	<0.1	0.1	IS:3025(Part 39)2021
9	Total Hardness (as CaCO ₃),mg/l,Max	82	40	90	96	-	IS:3025 (P-21):2009 RA 2019
10	Sulphates as SO ₄ (mg/l), Max	28.75	11.47	30.6	31.64	400	IS:3025(P-24)Sec 1 2022
11	Phosphates (as P), mg/l	<0.05	<0.05	<0.05	<0.05	-	IS 3025 (P-31) Sec 1 2022
12	Chloride (as Cl),mg/l, Max	79.74	21.03	109.1	74.84	600	IS:3025(Part-32) ;1988RA2019
13	Fluoride (as F),mg/l, Max	0.67	0.3	0.78	0.71	1.5	APHA 23rd Edition 4500F
14	Sulphide (as H ₂ S), mg/l, Max	<0.01	<0.01	<0.01	<0.01	-	IS:3025 (P-29):1986 RA 2019
15	Boron (as B), mg/l, Max	<0.1	<0.1	<0.1	<0.1	-	IS:3025 (Part-57)2021
16	Iron (as Fe),mg/l, Max	<0.005	<0.005	0.031	0.074	50	IS:3025(P-2) 2019
17	Percent of Sodium (%)	42	21	26.00	30.00	-	IS 11624 .2009
18	Residual Sodium Carbonate (meq/l)	<0.05	<0.05	<0.05	<0.05	-	IS:2488 (P-5) 1976
19	Total Coliform, MPN/100ml	94	120	221	240	5000	IS:1622:1981

""END OF REPORT""

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TEST REPORT

Table No. 16

Stack Monitoring Report

Report No. N020424114

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	RAMGAD MANGANESE & IRON ORE MINE (ML NO. 2679)
Location :	Mining Lease No. 2679
Stack ID & Capacity :	DG Set 35 KVA Ramgad-KK1 Mines
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	16.11.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	18.11.2024
Lab Code :	N/24/11/4-0204
Issue date :	02.12.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	120
4	Velocity (m/s)	6.87
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	312
7	Sample Condition When Received	Satisfactory
8	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
9	Serial No. of the Equipment	338 DTH 14
10	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
11	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.089	<0.2
2	CO	g/Kw-hr	0.115	<3.5
3	Nox +HC	g/Kw-hr	0.152	<4.0

INFERENCE	as per KSPCB Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards
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TEST REPORT

Table No. 17

Stack Monitoring Report

Report No.N020524114

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	RAMGAD MANGANESE & IRON ORE MINE (ML NO. 2679)
Location :	Mining Lease No. 2679
Stack ID & Capacity :	DG Set 20 KVA Ramgad Mines
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	16.11.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	18.11.2024
Lab Code :	N/24/11/4-0205
Issue date :	02.12.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	148
4	Velocity (m/s)	7.4
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	314
7	Sample Condition When Received	Satisfactory
8	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
9	Serial No. of the Equipment	338 DTH 14
10	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
11	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.094	<0.2
2	CO	g/Kw-hr	0.130	<3.5
3	Nox +HC	g/Kw-hr	0.378	<4.0

INFERENCE	as per KSPCB Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards
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