

The Sandur Manganese & Iron Ores Limited

(An ISO 9001:2015; ISO 14001:2015 and 45001:2018 certified company)
CIN: L85110KA1954PLC000759; Website: www.sandurgroup.com

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

No: SMIORE/MN/090226/2679/ 1016

09 February 2026

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 environmental parameters for the month of January 2026 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.
3. Consent for Operation No. AW-348553 dated 29 April 2025.

With reference to the letter cited above, we are enclosing herewith environmental monitoring reports from NABET accredited and MoEF&CC empaneled laboratory M/s Mineral Engineering Services as per stipulated environmental parameters in Environmental Clearance and Consent for Operation-Expansion for the month of January 2026 in respect of Mining Lease No. 2679, Ramghad Manganese & Iron Ore Mine of The Sandur Manganese & Iron Ores Limited.

Kindly request you to acknowledge receipt of the reports and oblige.

Thank you,
for The Sandur Manganese & Iron Ores Limited,


Parthipan P
Sr. General Manager & Agent

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 LLP)**

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: 24/05/2025

Valid Until: 23/05/2027

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 Entity: MINERAL ENGINEERING SERVICES LLP

Signed for and on behalf of NABL




Anuja Anand
Director


N. Venkateswaran
Chief Executive Officer



LIFE
Lifestyle For
Environment



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

12th June 2025

F. No. LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./554

Recognition Letter

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

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

Sir,

With reference to your application dated 19/03/2025 along with acceptance of the terms & conditions of the guidelines for recognition of environmental laboratories under the Environmental (Protection) Act, 1986, submitted to Central Pollution Control Board (CPCB), the Competent Authority of CPCB has accorded approval for renewal of recognition of Environmental laboratory and Govt. Analysts. Subsequently, M/s **Environmental Laboratory (Unit of Mineral Engineering Services), 948 2nd Cross St Thomas Town Post, Kammanahalli, Bengaluru-560084, Karnataka** shall be notified considering the current requirement of mandatory accreditation / certifications of the laboratory with a validity up to 23/05/2028 (for three years), subject to validity of ISO/IEC 17025 and IS/ISO 45001.

2. The following analysts have been approved as Government Analysts:

1. Sh. M. Sachin Raju
2. Smt. Arshiya Kousar
3. Smt. Binu Mani

3. The laboratory should compulsorily follow the accepted terms and conditions and may undertake the following tests:

- a) **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 (SVI).
- b) **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, Cyanide, Silica and Sulphide.
- c) **Inorganic (Trace Metals):** Boron, Cadmium, Calcium, Total Chromium, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio (SAR), Zinc, Arsenic, Aluminium, Antimony, Barium, Cobalt, Selenium, Silver, Tin and Vanadium.
- d) **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), Poly-Chlorinated Biphenyl (PCB's) each, Polynuclear Aromatic Hydrocarbon (PAH), Surfactants and Tannin & Lignin.
- e) **Microbiological Test:** Total Coliform, Faecal Coliform, *E. coli*, Faecal Streptococci and Total Plate Count.
- f) **Toxicological Tests:** Bioassay Method for Evaluation of Toxicity Using Fish (90% survival of fish after 96 hrs in 100% effluent) and Measurement of toxicity using *Daphnia* or other organism.

contd.

‘परिवेश भवन’ पर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

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



- g) **Biological Test:** Macrophytic Identification, Planktonic Identification Count and Chlorophyll.
- h) **Characterization of Hazardous Waste:** Corrosivity, Ignibility (Flash Point) and Measurement of Heavy Metals/Pesticides in the Waste/Leachate.
- i) **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, Potash(Available), Sulphate, Sulphur, Total Organic Carbon (TOC), Total Water Soluble Salt and Water Holding Capacity.
- j) **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}.
- k) **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Chlorine, Total Hydrocarbon, Hydrogen Sulphide and Carbon Disulphide.
- l) **Noise Level:** Noise level measurement (20 to 140 dba) and Ambient Noise & Source Specific Noise.
- m) **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity, Solar Radiation and Rain Fall.
4. The laboratory shall compulsorily participate in the Analytical Quality Control (AQC) Exercise conducted by the CPCB to ascertain the capability of the laboratory and analysts. The lab shall submit quarterly progress report on the sample analysis carried out to CPCB.
5. The surprise inspection / periodic surveillance of the recognized environment laboratory will be undertaken to assess its proper functioning systematic operation and reliability of data generated at the laboratory by a Joint Team as per the Notification.
6. The laboratory should have the mandatory requisite accreditation and certificate of the ISO: 17025 and ISO: 45001 as per rules. This recognition is subject to such accreditations and renewals as applicable and 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.
7. **M/s Environmental Laboratory (Unit of Mineral Engineering Services), Bengaluru, Karnataka** is required to apply for further renewal of recognition through online using CPCB web portal (<https://cpcbepalab.in/epalab>) before expiry of recognition with mandatory accreditation / certification concerned.

Yours faithfully,

M. S. S. S.
12/6/2024
Divisional Head
Instrumentation Laboratory

फा. सं. एलबी-2021/7/99/इंस्टलैब-एचओ-सीपीसीबी-एचओ / प्राइवेट / 554

मान्यता पत्र

सेवा में,

प्रयोगशाला प्रमुख,
मैसर्स एनवायरनमेंटल लैबोरेटरी (यूनिट ऑफ मिनरल इंजीन्यरिंग सर्विसेस एलएलपी),
948 दूसरी क्रॉस सेंट थॉमस टाउन पोस्ट,
कम्पनहल्ली, बेंगलुरु-560084,
कर्नाटक।

विषय: पर्यावरण (संरक्षण) अधिनियम, 1986 के अंतर्गत पर्यावरणीय प्रयोगशाला के रूप में मैसर्स एनवायरनमेंटल लैबोरेटरी (यूनिट ऑफ मिनरल इंजीन्यरिंग सर्विसेस एलएलपी), 948 दूसरी क्रॉस सेंट थॉमस टाउन पोस्ट, कम्पनहल्ली, बेंगलुरु-560084, कर्नाटक की मान्यता के बारे में।

महोदय,

केंद्रीय प्रदूषण नियंत्रण बोर्ड (के.प्र.नि.बोर्ड) को पर्यावरण (संरक्षण) अधिनियम, 1986 के अंतर्गत पर्यावरण प्रयोगशालाओं की मान्यता के लिए दिशानिर्देशों के निबंधन और शर्तों की स्वीकृति के साथ आपके दिनांक 19/03/2025 के प्रस्तुत आवेदन के संदर्भ में, के.प्र.नि.बोर्ड के सक्षम प्राधिकारी ने पर्यावरण प्रयोगशाला और सरकार के विश्लेषक की मान्यता के नवीनीकरण को अनुमोदन प्रदान किया है। तदनुसार, मैसर्स एनवायरनमेंटल लैबोरेटरी (यूनिट ऑफ मिनरल इंजीन्यरिंग सर्विसेस एलएलपी), 948 दूसरी क्रॉस सेंट थॉमस टाउन पोस्ट, कम्पनहल्ली, बेंगलुरु-560084, कर्नाटक को भारत की राजपत्र अधिसूचना में प्रयोगशाला की अनिवार्य प्रत्यायन/प्रमाणन की वर्तमान अपेक्षा को ध्यान में रखते हुए दिनांक 23/05/2028 (तीन साल) तक आईएसओ/ आईईसी 17025 और आईएस/आईएसओ 45001 की वैधता के साथ अधिसूचित किया जाएगा।

2. निम्नलिखित विश्लेषकों को सरकारी विश्लेषक के रूप में अनुमोदित किया गया है:

1. श्री. एम. सचिन राजू
2. श्रीमती अर्शिया कौसर
3. श्रीमती. बिनु मणि

3. प्रयोगशाला अनिवार्य रूप से स्वीकृत निबंधन और शर्तों का पालन करते हुए निम्नलिखित परीक्षणों करेगी:

- क. **भौतिक परीक्षण:** चालकता, रंग, पीएच, स्थिर और वाष्पशील ठोस, कुल ठोस, कुल विलीन ठोस, कुल निलंबित ठोस, आविलता, तापमान, वेग एवं निर्वहन औद्योगिक बहिःस्राव धारा का विसर्जन मापन, फ्लोक्यूलेशन टेस्ट (जार टेस्ट), गंध, लवणता, निपटान योग्य ठोस और आपंक वॉल्यूम इंडेक्स (एसवीआई)।
- ख. **अकार्बनिक (सामान्य और गैर-धात्विक):** अम्लता, क्षारीयता, अमोनिकल नाइट्रोजन, क्लोराइड, क्लोरीन अवशिष्ट, विलीन ऑक्सीजन, फ्लोराइड, कुल कठोरता, कुल केजेलडहल नाइट्रोजन (टीकेएन), नाइट्राइट नाइट्रोजन, नाइट्रेट नाइट्रोजन, फॉस्फेट, सल्फेट, साइनाइड, सिलिका और सल्फाइड।
- ग. **अकार्बनिक (सूक्ष्म मात्रिक धातु):** बोरोन, कैडमियम, कैल्शियम, टोटल क्रोमियम, क्रोमियम हेक्सावैलेंट, तांबा, लोहा, सीसा, मैग्नीशियम, पारा, निकल, पोटेशियम, सोडियम, सोडियम अवशोषण अनुपात (एसएआर), जिंक, आर्सेनिक, एल्युमीनियम, एंटीमनी, बेरियम, कोबाल्ट, सेलेनियम, सिल्वर, टिन और वैनेडियम।
- घ. **ऑर्गेनिक्स (सामान्य) और ट्रेस ऑर्गेनिक्स:** बायोकेमिकल ऑक्सीजन डिमांड (बीओडी), रासायनिक ऑक्सीजन डिमांड (सीओडी), तेल और ग्रीस, फेनोलिक यौगिक, कीटनाशक (प्रत्येक) (ऑर्गेनो-क्लोरीन और ऑर्गेनो नाइट्रोजन-फॉस्फोरस), पॉली-क्लोरिनेटेड बाइफिनाइल (पीसीबी) (प्रत्येक), पॉलीन्यूक्लियर एरोमैटिक हाइड्रोकार्बन (पीएच), सर्फेक्टेंट और टैनिन & लिग्निन।
- ङ. **सूक्ष्म जीवविज्ञान परीक्षण:** टोटल कोलीफॉर्म, फीकल कोलीफॉर्म, ई.कोली, फीकल स्ट्रेप्टोकोक्की, स्ट्रेप्टोकोक्की और टोटल प्लेट काउंट।
- च. **आविष विज्ञानी परीक्षण:** मछली का उपयोग करके विषाक्तता के मूल्यांकन के लिए जैव परख विधि (100% प्रवाह में 96 घंटे के बाद मछली का 90% जीवित रहना), और डैफ़निया या अन्य जीव का उपयोग करके विषाक्तता का मापन।

जारी.

- छ. **जैविक परीक्षण:** मैक्रोफाइटिक पहचान, प्लवक पहचान गणना और क्लोरोफिल।
- ज. **परिसंकटमय अपशिष्ट का लक्षण वर्णन:** संक्षारकता, ज्वलनशीलता (फ्लैश प्वाइंट) और अपशिष्ट & निक्षालक में भारी धातुओं/पीड़कनाशियों का मापन।
- झ. **मृदा/आपंक/तलछट और ठोस अपशिष्ट:** बोरॉन, कटियन एक्सचेंज क्षमता (सीईसी), विद्युत चालकता, नाइट्रोजन (उपलब्ध), कार्बनिक कार्बन/पदार्थ (रासायनिक विधि), पीएच, फास्फोरस (उपलब्ध), फॉस्फेट (ऑर्थो), फॉस्फेट (कुल), पोटेशियम, मृदा के अर्क में एसएआर, सोडियम, मृदा की नमी, टीकेएन, कैलोरी मान, अमोनिया, बाइकार्बोनेट, कैल्शियम, कैल्शियम कार्बोनेट, क्लोराइड, रंग, एच एसिड, भारी धातु, मैग्नीशियम, नाइट्रेट, नाइट्राइट, पोटेश (उपलब्ध), सल्फेट, सल्फर, कुल कार्बनिक कार्बन (टीओसी), कुल पानी में घुलनशील नमक और जल धारण क्षमता।
- ञ. **परिवेशी वायु/पलायक उत्सर्जन:** नाइट्रोजन डाइऑक्साइड (एनओ₂), सल्फर डाइऑक्साइड (एसओ₂), कुल निलंबित विविक्त कण, श्वसन योग्य निलंबित कण पदार्थ (पीएम₁₀), अमोनिया, कार्बन मोनोऑक्साइड, क्लोरीन, सीसा, ओजोन, बेंजीन टोल्युनि जाइलीन (बीटीएक्स), पॉलीसाइक्लिक एरोमैटिक हाइड्रोकार्बन (पीएच) बेंजो-ए-पाइरिन और अन्य और पीएम_{2.5}।
- ट. **चिमनी गैसें/स्रोत उत्सर्जन:** पार्टिकुलेट मैटर, सल्फर डाइऑक्साइड, वेग और प्रवाह, कार्बन डाइऑक्साइड, कार्बन मोनोऑक्साइड, तापमान, ऑक्सीजन, नाइट्रोजन के ऑक्साइड, एसिड धुंध, अमोनिया, कुल हाइड्रोकार्बन, हाइड्रोजन सल्फाइड और कार्बन डाइसल्फाइड।
- ठ. **रव (शोर) स्तर:** शोर स्तर माप (20 से 140 डीबीए) और परिवेश रव & स्रोत विशिष्ट रव।
- ड. **मौसम संबंधी:** परिवेश का तापमान, हवा की दिशा, हवा की गति, सापेक्ष आर्द्रता, सौर विकिरण और वर्षा।
4. प्रयोगशाला और विश्लेषकों की क्षमता का पता लगाने के लिए प्रयोगशाला को के.प्र.नि. बोर्ड द्वारा आयोजित विश्लेषणात्मक गुणवत्ता नियंत्रण) एक्जूसी (अभ्यास में अनिवार्य रूप से भाग लेना होगा। प्रयोगशाला किए गए नमूना विश्लेषण पर के.प्र.नि. बोर्ड को तिमाही प्रगति रिपोर्ट प्रस्तुत करेगी।
5. अधिसूचना के अनुसार, एक संयुक्त दल द्वारा मान्यता प्राप्त पर्यावरण प्रयोगशाला का औचक निरीक्षण/आवधिक निगरानी उस के उचित कामकाज, व्यवस्थित प्रचालन और प्रयोगशाला में तैयार किए गए आंकड़ों की विश्वसनीयता का निर्धारण करने के लिए की जाएगी।
6. प्रयोगशाला के पास नियमानुसार ISO/IEC: 17025)2017 (और IS/ ISO: 45001 का अपेक्षित प्रत्यायन और प्रमाण पत्र होना चाहिए। यह मान्यता यथा लागू प्रत्यायन और नवीनीकरण के अधीन है और किसी भी निबंधन और शर्तों के गंभीर गैर-अनुपालन के मामले में, प्रयोगशाला को न्यूनतम दो साल की अवधि के लिए ब्लैकलिस्ट किया जा सकता है और सरकार की ओर से अनधिकृत तरीके से कार्य करने के लिए, यथा लागू सिविल/आपराधिक कार्यवाही शुरू की जा सकती है।
7. **मैसर्स एनवायरनमेंटल लैबोरेटरी (यूनिट ऑफ मिनरल इंजीनियरिंग सर्विसेस एलएलपी), बेंगलुरु, कर्नाटक** को संबंधित अनिवार्य प्रत्यायन/प्रमाणीकरण के साथ मान्यता की समाप्ति से पूर्व केंद्रीय प्रदूषण नियंत्रण बोर्ड के वेबपोर्टल (<https://cpcbepalab.in/epalab>) का उपयोग कर के ऑनलाइन मान्यता के नवीनीकरण के लिए आवेदन करना अपेक्षित है।

भवदीय,
 14/6/2024
 प्रभागप्रमुख
 उपकरणीय प्रयोगशाला

ENVIRONMENTAL MONITORING REPORT

Project	Ramgad Manganese Ore Mine ML No. 2679
Location	Ramgad village, Sandur Taluk, Ballari Dist, Karnataka
Client	M/s. The Sandur Manganese & Iron Ores Limited
Office Address	Sandur, Ballari District, Karnataka
Monitoring Month	January -2026

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Recognised by MoEF&CC Under E(P) Act 1986

&

Accredited by NABL

#948, 2nd Cross, Kammanahalli Main Road,

St Thomas Town Post,

Bangalore- 560 084, Karnataka

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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
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Code & Station	: A1 - ML Area (Core Zone)
Duration	: 24 Hrs
Issue date	: 02.02.2026
Sampling & Test Method	: IS 5182 & Lab SOP

Date of Sampling	Report No	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)	
02.01.2026	N002026012	12	18	45	23	0.35
03.01.2026	N007126012	9	13	50	28	0.54
05.01.2026	N011226012	15	16	40	21	0.28
06.01.2026	N015126012	9	11	54	26	0.47
16.01.2026	N026626013	14	18	58	32	0.52
17.01.2026	N000126014	12	16	55	30	0.33
19.01.2026	N004426014	10	13	50	28	0.46
20.01.2026	N007926014	9	11	45	22	0.28
28.01.2026	N017626015	7	9	53	29	0.55
29.01.2026	N022626015	10	13	43	27	0.49
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr

Note : * Parameters monitored for period of 1 hr

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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						
Location : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Code & Station : A2 - Core Zone (Myadara Banda Block)						
Duration : 24 Hrs						
Issue date : 02.02.2026						
Sampling & Test Method: IS 5182 & Lab SOP						
Date of Sampling	Report No	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)	
02.01.2026	N002226012	9	13	38	22	0.26
03.01.2026	N007326012	10	14	43	25	0.35
05.01.2026	N011426012	7	9	40	22	0.41
06.01.2026	N015326012	10	12	54	28	0.22
16.01.2026	N026826013	12	14	50	28	0.36
17.01.2026	N000326014	10	13	44	23	0.48
19.01.2026	N004626014	8	11	55	27	0.25
20.01.2026	N008126014	6	9	49	26	0.22
28.01.2026	N017826015	12	13	46	24	0.39
29.01.2026	N022826015	9	15	53	28	0.52
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 hr						

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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						
Location : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Code & Station : A3 - Core Zone (Governor Point)						
Duration : 24 Hrs						
Issue date : 02.02.2026						
Sampling & Test Method: IS 5182 & Lab SOP						
Date of Sampling	Report No	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)	
02.01.2026	N002326012	9	16	43	23	0.46
03.01.2026	N007426012	7	9	55	32	0.26
05.01.2026	N011526012	13	18	53	30	0.38
06.01.2026	N015426012	9	12	48	26	0.45
16.01.2026	N026926013	11	15	50	27	0.28
17.01.2026	N000426014	12	17	58	32	0.54
19.01.2026	N004726014	9	13	55	29	0.49
20.01.2026	N008226014	11	16	49	26	0.36
28.01.2026	N017926015	13	15	53	28	0.27
29.01.2026	N022926015	10	18	56	30	0.45
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 hr						

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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					
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Code & Station	: A4 - Core Zone (Neerlabi)					
Duration	: 24 Hrs					
Issue date	: 02.02.2026					
Sampling & Test Method	: IS 5182 & Lab SOP					
Date of Sampling	Report No	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)	
02.01.2026	N002426012	9	11	49	25	0.29
03.01.2026	N007526012	10	12	50	27	0.46
05.01.2026	N011626012	11	17	55	29	0.52
06.01.2026	N015526012	9	15	57	28	0.39
16.01.2026	N027026013	11	18	47	25	0.24
17.01.2026	N000526014	10	12	49	26	0.33
19.01.2026	N004826014	7	13	55	29	0.52
20.01.2026	N008326014	12	18	59	32	0.64
28.01.2026	N018026015	9	11	46	26	0.28
29.01.2026	N023026015	14	17	53	28	0.44
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 hr						

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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					
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Code & Station	: A5 - Ramghad village					
Duration	: 24 Hrs					
Issue date	: 02.02.2026					
Sampling & Test Method	: IS 5182 & Lab SOP					
Date of Sampling	Report No	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)	
02.01.2026	N002526012	9	10	43	24	0.26
03.01.2026	N007626012	12	15	49	26	0.46
05.01.2026	N011726012	10	14	51	29	0.28
06.01.2026	N015626012	9	11	55	30	0.22
16.01.2026	N027126013	13	18	47	26	0.38
17.01.2026	N000626014	10	15	57	32	0.45
19.01.2026	N004926014	9	13	43	22	0.56
20.01.2026	N008426014	10	17	40	25	0.45
28.01.2026	N018126015	12	19	51	27	0.36
29.01.2026	N023126015	9	13	42	23	0.28
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 hr						

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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					
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Code & Station	: A6 - Dharmapura village					
Duration	: 24 Hrs					
Issue date	: 02.02.2026					
Sampling & Test Method	: IS 5182 & Lab SOP					
Date of Sampling	Report No	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)	
02.01.2026	N002626012	11	14	54	28	0.42
03.01.2026	N007726012	9	15	50	25	0.32
05.01.2026	N011826012	11	13	47	23	0.28
06.01.2026	N015726012	9	11	49	25	0.44
16.01.2026	N027226013	7	12	53	28	0.26
17.01.2026	N000726014	12	15	45	22	0.24
19.01.2026	N005026014	14	18	47	26	0.31
20.01.2026	N008526014	11	13	56	32	0.25
28.01.2026	N018226015	9	15	52	28	0.31
29.01.2026	N023226015	10	12	43	24	0.25
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 hr						

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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					
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Code & Station	: A7 - Garaga village					
Duration	: 24 Hrs					
Issue date	: 02.02.2026					
Sampling & Test Method	: IS 5182 & Lab SOP					
Date of Sampling	Report No	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)	
02.01.2026	N002726012	11	16	54	30	0.23
03.01.2026	N007826012	10	13	46	26	0.25
07.01.2026	N018826012	11	15	54	28	0.32
08.01.2026	N022926012	9	12	50	26	0.42
16.01.2026	N027326013	12	16	45	22	0.26
17.01.2026	N000826014	8	12	52	28	0.22
19.01.2026	N005126014	12	15	43	21	0.31
20.01.2026	N008626014	14	16	50	27	0.46
28.01.2026	N018326015	10	13	44	23	0.42
29.01.2026	N023326015	11	15	55	29	0.35
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 hr						

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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					
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Code & Station	: A8 - Yeswanthanagar					
Duration	: 24 Hrs					
Issue date	: 02.02.2026					
Sampling & Test Method	: IS 5182 & Lab SOP					
Date of Sampling	Report No	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)	
02.01.2026	N001826012	9	15	45	23	0.42
03.01.2026	N006926012	9	10	58	32	0.55
09.01.2026	N027826012	13	18	52	29	0.36
10.01.2026	N001926013	12	16	49	27	0.42
12.01.2026	N008226013	11	14	54	28	0.51
13.01.2026	N014926013	7	11	45	23	0.36
23.01.2026	N020426014	9	13	51	27	0.27
24.01.2026	N001526015	10	15	53	29	0.42
26.01.2026	N007726015	13	18	47	24	0.53
27.01.2026	N013026015	9	13	41	21	0.48
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 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					
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Code & Station	: A9 - Subbarayanahalli					
Duration	: 24 Hrs					
Issue date	: 02.02.2026					
Sampling & Test Method	: IS 5182 & Lab SOP					
Date of Sampling	Report No	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)	
02.01.2026	N001426012	10	12	50	27	0.56
03.01.2026	N006526012	11	15	46	26	0.35
09.01.2026	N027426012	9	14	58	32	0.42
10.01.2026	N001526013	12	18	43	22	0.51
12.01.2026	N007826013	10	15	55	28	0.38
13.01.2026	N014526013	9	12	41	26	0.44
23.01.2026	N020026014	7	14	50	29	0.26
24.01.2026	N001126015	9	11	48	26	0.34
26.01.2026	N007326015	10	13	39	22	0.57
27.01.2026	N012626015	9	11	52	27	0.52
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr

Note : * Parameters monitored for period of 1 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					
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Code & Station	: A10 - Siddapura village					
Duration	: 24 Hrs					
Issue date	: 02.02.2026					
Sampling & Test Method	: IS 5182 & Lab SOP					
Date of Sampling	Report No	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)	
02.01.2026	N002126012	9	12	52	28	0.34
03.01.2026	N007226012	8	11	53	27	0.52
05.01.2026	N011326012	11	14	55	30	0.42
06.01.2026	N015226012	13	17	50	28	0.33
16.01.2026	N026726013	11	13	45	23	0.26
17.01.2026	N000226014	9	11	58	32	0.20
19.01.2026	N004526014	10	16	51	27	0.24
20.01.2026	N008026014	12	14	56	30	0.42
28.01.2026	N017726015	9	11	43	24	0.55
29.01.2026	N022726015	10	12	50	27	0.36
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	4 1 Hr
Note : * Parameters monitored for period of 1 hr						

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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		
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka		
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
Duration	: 08 Hrs		
Issue Date	: 02.02.2026		
Code & Station	Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Loading point	19.01.2026	N007826014	365
FA2, Dumping point	19.01.2026	N005226014	475
FA3, Haulage Road	16.01.2026	N027426013	480
FA4, Stack Yard	16.01.2026	N027526013	368
FA5, Drilling Point	17.01.2026	N000926014	495
FA6, Waste Dumping Point	17.01.2026	N001026014	387
Ref	: Environmental (Protection) Rules, 2010 (Sixth Amendment)		
Permissible limits for Fugitive Emissions	Particulate mater ($\mu\text{g}/\text{m}^3$) 600 $\mu\text{g}/\text{m}^3$		

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TEST REPORT

Table No. 12

Analysis Report of Dust Fall Measurement

Name of the Client	The Sandur Manganese & Iron Ores Limited
Name of the Project	Mining Lease No. 2679
Location	Ramgad village, Sandur Taluk, Ballari Dist, Karnataka
Month	01.01.2026 to 31.01.2026
Sample Type	Total Dust Fall Rate
Duration of Monitoring	One Month
Issue Date	02.02.2026

Result

Code	Location	Result	unit	Reference Method
DF1	Mine Office Area	0.038	g/m ² month	IS 5182 (Part 01) : 2006
DF2	Near Crusher Area	0.051	g/m ² month	IS 5182 (Part 01) : 2006

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

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TEST REPORT

Table No. 13

AMBIENT NOISE LEVEL DATA

Report No : ELMES026105

Name of the Client		: The Sandur Manganese & Iron Ores Limited						
Name of the Project		: Mining Lease No. 2679						
Location		: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka						
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Particulars of Sample		: Noise levels						
Issue Date		: 02.02.2026						
Sampling		: IS : 9989 & CPCB Guidelines						
Corezone								
Code No.	Monitoring stations	Date of monitoring	Day			Night		
			L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N1	Core zone ML Area	16.01.2026	38.0	60.8	67.2	40.2	49.0	55.0
N2	Myadara Banda Block	16.01.2026	37.0	52.9	58.2	35.0	46.3	53.0
N3	Governor Point)	16.01.2026	40.0	57.9	66.3	34.0	42.7	48.0
N4	Neerlabbi	16.01.2026	41.2	58.6	68.0	36.0	51.1	60.0
Bufferzone								
Code No.	Monitoring stations	Date of monitoring	Day			Night		
			L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
N5	Ramgad village	19.01.2026	39.0	50.6	56.0	36.0	43.2	46.2
N6	Dharmapura	19.01.2026	39.0	50.8	56.2	35.0	42.3	46.0
N7	Garaga village	19.01.2026	36.0	47.7	53.8	35.0	41.2	44.2
N8	Yeshwanthanagar	20.01.2026	37.3	51.4	58.6	35.0	43.5	47.2
N9	Subbarayanahalli	20.01.2026	36.0	50.5	56.0	36.0	42.1	45.2
N10	Siddapura	20.01.2026	40.0	49.6	57.3	34.0	43.7	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

Table No. 14

SOURCE NOISE LEVEL DATA

Report No : ELMES026106

Name of the Client	: The Sandur Manganese & Iron Ores Limited
Name of the Project	: Mining Lease No. 2679
Location	: Ramgad village, Sandur Taluk, Ballari Dist, Karnataka
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of Sample	: Noise levels
Issue Date	: 02.02.2026
Sampling	: IS : 9989 & CPCB Guidelines

Source

Code No.	Monitoring stations	Date of monitoring	Day			Remarks
			L _{min}	L _{eq}	L _{max}	
N1	Loading Point	17.01.2026	44.0	70.3	80.0	During operation
N2	Dumping Point	17.01.2026	42.8	73.9	81.0	During operation
N3	Haulage Road	17.01.2026	43.0	73.2	83.0	During operation

Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

Leq. Limit dB(A)

Day Night

Industrial areas 75 70

Heavy Earth Moving Machineries

Code No.	Monitoring stations	Date of monitoring	Day			Remarks
			L _{min}	L _{eq}	L _{max}	
N4	Wheel Loader	17.01.2026	41.0	74.1	82.0	During operation in side of the cabin
			38.0	73.6	78.0	During operation 10mts outside of the cabin
N5	Tata Hitachi 200LC	17.01.2026	42.0	67.1	74.0	During operation in side of the cabin
			39.0	64.0	70.0	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)

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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					
Location		: Ramigad village, Sandur Taluk, Ballari Dist, Karnataka					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Nature of sample		: Surface water					
Sample Location		: SW1 - Ragavapura kere water, SW2 - Dhananayakana kere water : SW3 - Narihalla Upstream water, SW4 - Narihalla Downstream water					
Issue Date		: 02.02.2026					
Ref : IS : 2296, Water Quality Standards							
Date of sample collection		08.01.2026	08.01.2026	16.01.2026	16.01.2026	Limits	Method of Testing
Date of sample receipt		09.01.2026	09.01.2026	17.01.2026	17.01.2026		
Report No		M001826012	M001926012	M009926013	M010026013		
Sl.No.	Samples Code	SW1	SW2	SW3	SW4		
	Parameters	Results					
1	pH	8.26	8.47	8.21	8.28	6.5 to 8.5	IS:3025(Part-11)2022
2	Colour (Hazen Units), Max	15	5	10	10	300	IS 3025 (Part 11) 2022
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	IS:3025 (P-5) 2018
4	Total Dissolved Solids (mg/l), Max	200	206	275	300	1500	IS 3025 (Part 16) 2023
5	Total Suspended Solids, mg/l	65.0	70.0	140	110	-	IS 3025 (Part 17) 2023
6	Dissolved Oxygen (as O ₂), mg/l,	5.60	5.80	5.00	5.10	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 (Part 44) 2023
8	Total Hardness (as CaCO ₃),mg/l,Max	70.0	100	550.0	450	-	IS:3025 (P-21):2009 RA 2023
9	Sulphates as SO ₄ (mg/l), Max	22.0	17.0	80.0	70.0	400	APHA (24th Edition):4110B
10	Phosphates (as P), mg/l	<0.05	<0.05	<0.05	<0.05	-	IS 3025 (P-31) Sec 1 2022 1976
11	Chloride (as Cl),mg/l, Max	35.0	55.0	275.0	300.0	600	IS:3025(Part-32) 1988RA2019
12	Fluoride (as F),mg/l, Max	0.56	0.48	0.85	0.88	1.5	IS 3025 (Part 60-Sec1) 2023
13	Sulphide (as H ₂ S), mg/l, Max	<0.01	<0.01	<0.01	<0.01	-	IS:3025 (P-29) 2022
14	Boron (as B), mg/l, Max	<0.1	<0.1	<0.1	<0.1	-	IS:3025 (Part-57) 2021
15	Iron (as Fe),mg/l, Max	<0.005	<0.005	<0.005	<0.005	50	IS 3025 (Part 65) 2022
16	Percent of Sodium (%)	22	32	23.0	27.0	-	IS 2488 part 5
17	Residual Sodium Carbonate (meq/l)	<0.05	<0.05	<0.5	<0.5	-	IS 11624 .2009
18	Total Coliform, MPN/100ml	63	80	130	115	5000	IS 15185 2016 RA 2021

"END OF REPORT"


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TEST REPORT

Table No. 16

Stack Monitoring Report

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	RAMGAD MANGANESE & IRON ORE MINE (ML NO. 2679)
Location :	Ramgad village, Sandur Taluk, Ballari Dist, Karnataka
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Stack ID & Capacity :	DG Set 35 KVA Ramgad-KK1 Mines
Instrument used for sampling :	Emissions collected through stack sampler
Date of Collection :	16.01.2026
Date of Sample Receipt :	17.01.2026
Report No :	N000926013
Issue date :	02.02.2026

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}$ C)	25
3	Stack Temperature ($^{\circ}$ C)	153
4	Velocity (m/s)	8.22
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	344
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 due date	17.07.2026
11	Test Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.123	<0.2
2	CO	g/Kw-hr	0.128	<3.5
3	NOx +HC	g/Kw-hr	0.426	<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

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	RAMGAD MANGANESE & IRON ORE MINE (ML NO. 2679)
Location :	Ramgad village, Sandur Taluk, Ballari Dist, Karnataka
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Location :	Mining Lease No. 2679
Stack ID & Capacity :	DG Set 20 KVA Ramgad Mines
Instrument used for sampling :	Emissions collected through stack sampler
Date of Collection :	16.01.2026
Date of Sample Receipt :	17.01.2026
Report No :	N001026013
Issue date :	02.02.2026

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	25
3	Stack Temperature (°C)	154
4	Velocity (m/s)	8.17
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	341
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 due date	17.07.2026
11	Test Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.114	<0.2
2	CO	g/Kw-hr	0.270	<3.5
3	NOx +HC	g/Kw-hr	0.729	<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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