

The Sandur Manganese & Iron Ores Limited

0/c

(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/070426/2679/33

07 April 2026

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

Dear Sir,

Sub: Submission of quarterly report pertaining to monitoring of environmental parameters in respect of Mining Lease No. 2679.

- Ref: 1. Environmental Clearance No.110015/88/2006-IA. II(M) dated 24 January 2007.
2. Consent for Operation No. AW-337273 dated 10 April 2023.
3. Consent for Operation No. AW-348553 dated 29 April 2025.
4. Consent for Operation No. AW-351293 dated 12 November 2025.

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

Kindly request you to acknowledge the receipt of the reports.

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

Parthipan P
Sr. General Manager & Agent



Encl: Monitoring Reports

- Cc: 1. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru.
2. Integrated Regional Office, MoEF&CC, Bengaluru.

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

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13
07 April 2026

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

[Handwritten Signature]

Dear Sir,

K/A: Sr. Environmental Officer

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Parthipan P
Sr. General Manager & Agent



Encl: Monitoring Reports

- Cc: 1. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru.
2. Integrated Regional Office, MoEF&CC, Bengaluru.




Quarterly Monitoring Reports of Mining Lease No 2679 of The Sandur Manganese & Iron Ores Limited

From EPS <eps@sandurgroup.com>

Date Fri 4/10/2026 1:21 PM

To Env Section Regional Office Bengaluru <rosz.bng-mefcc@gov.in>

Cc Parthipan <Parthipan.p@sandurgroup.com>; Environment <environment@sandurgroup.com>

 1 attachment (8 MB)

2679 Quarterly Monitoring Report IRO, MoEF&CC.pdf;

Dear Madam

Please find herewith attached Quarterly Monitoring Reports (January 2026-March 2026) in respect of Mining Lease No 2679 of The Sandur Manganese & Iron Ores Limited for your kind perusal and needful please.

With Regards

	<p>The Sandur Manganese & Iron Ores Limited 'SATYALAYA', Door No.266 (OLD NO.80), Behind Taluka Office, Ward No.1, Palace Road, Sandur -583 119, Ballari District, Karnataka, India</p> <p>Phone 91-8395-283118 www.sandurgroup.com Email : eps@sandurgroup.com</p> <p></p>
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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



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 कैल्सियम नाइट्रोजन (टीकेएन), नाइट्राइट नाइट्रोजन, नाइट्रेट नाइट्रोजन, फॉस्फेट, सल्फेट, साइनाइड, सिलिका और सल्फाइड।
- ग. **अकार्बनिक (सूक्ष्म मात्रिक धातु):** बोरॉन, 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-क्लोरीनेटेड बाइफेनाइल (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 टोल्यूनि 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) एक्ज्यूसी (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,
 12/6/2024
 प्रभागप्रमुख
 उपकरणीय प्रयोगशाला

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 Months	January to March -2026

Average Monitoring Report

ENVIRONMENTAL LABORATORY (Unit of Mineral Engineering Services LLP)

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

&

Accredited by NABL

#948, 2nd Cross, Kammanahalli Main Road,

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TEST REPORT

Table No. 1

STATISTICAL AIR QUALITY DATA

Name of the Client		: The Sandur Manganese & Iron Ores Limited													
Name of the Project		: Mining Lease No. 2679													
Month		: January to March, 2026													
	A1 - ML Area (Core Zone)					A2 - Core Zone (Myadara Banda Block)					A3 - Core Zone (Governor Point)				
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO
Min.	7	9	40	21	0.24	6	9	38	21	0.22	7	<9	35	22	0.20
10%	9	11	42	23	0.28	9	11	39	22	0.22	9	12	43	25	0.24
25%	9	13	45	25	0.31	9	12	43	23	0.25	9	13	48	26	0.26
50%	11	14	50	28	0.38	10	13	48	27	0.32	11	15	53	28	0.33
75%	12	16	54	30	0.48	12	16	53	28	0.39	12	17	55	30	0.45
98%	15	18	59	35	0.55	13	18	56	32	0.50	14	19	58	33	0.53
Max.	15	18	60	37	0.55	14	18	57	33	0.52	14	19	58	33	0.54
Avg.	11	14	50	28	0.39	10	14	48	26	0.32	11	15	51	28	0.35
SD	2	3	6	4	0.10	2	2	6	3	0.09	2	3	6	3	0.10
No. of obs	26					26					24				
	A4 - Core Zone (Neerlabi)														
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO										
Min.	7	11	35	18	0.22										
10%	9	12	44	23	0.28										
25%	9	12	46	25	0.30										
50%	11	15	50	28	0.38										
75%	13	18	55	29	0.44										
98%	15	19	60	33	0.58										
Max.	15	19	60	33	0.64										
Avg.	11	15	50	27	0.38										
SD	2	3	7	4	0.10										
No. of obs	26														

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TEST REPORT

Table No. 2

STATISTICAL AIR QUALITY DATA

Name of the Client	: The Sandur Manganese & Iron Ores Limited														
Name of the Project	: Mining Lease No. 2679														
Month	: January to March, 2026														
	A5 - Ramghad village					A6 - Dharmapura village					A7 - Garaga village				
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO
Min.	8	10	36	21	0.22	7	11	35	21	0.22	7	11	39	21	0.20
10%	9	11	41	23	0.25	9	11	44	23	0.22	9	12	42	22	0.22
25%	9	13	43	24	0.28	9	13	47	24	0.25	9	13	44	23	0.25
50%	10	15	49	26	0.35	10	14	50	28	0.32	11	15	50	26	0.32
75%	12	16	53	30	0.45	12	15	55	30	0.41	12	16	53	29	0.41
98%	14	19	59	33	0.52	14	18	58	33	0.54	14	18	56	33	0.54
Max.	14	19	60	33	0.52	14	18	58	33	0.55	14	18	56	33	0.55
Avg.	11	14	48	27	0.36	11	14	50	27	0.33	11	14	49	26	0.33
SD	2	3	6	4	0.10	2	2	6	3	0.10	2	2	5	4	0.10
No. of obs	26					26					26				
	A8 - Yeswanthanagar					A9 - Subbarayanahalli					A10 - Siddapura village				
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO
Min.	7	10	41	21	0.22	6	9	36	21	0.22	8	11	36	17	0.20
10%	9	12	44	23	0.28	7	11	40	22	0.30	9	11	42	24	0.26
25%	9	13	47	25	0.33	9	12	43	24	0.37	9	12	47	25	0.30
50%	11	15	50	28	0.42	10	14	50	27	0.42	11	14	51	28	0.37
75%	12	16	54	30	0.49	11	15	54	28	0.51	12	16	53	30	0.44
98%	15	19	59	33	0.55	15	19	59	33	0.57	14	20	58	33	0.54
Max.	15	19	59	33	0.55	15	19	60	33	0.57	14	20	58	33	0.55
Avg.	11	15	50	28	0.41	10	14	49	26	0.42	11	14	50	27	0.37
SD	2	2	5	3	0.10	2	3	7	3	0.10	2	2	6	4	0.10
No. of obs	26					26					26				

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TEST REPORT

Table No. 3

Fugitive Emission (Average)

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 LLP)	
Month : January to March, 2026	
Duration : 08 Hrs	
Code & Station	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Loading point	338
FA2, Dumping point	463
FA3, Haulage Road	462
FA4, Stack Yard	350
FA5, Drilling Point	431
FA6, Waste Dumping Point	385


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TEST REPORT

Table No. 4

Analysis Report of Dust Fall Measurement (Average)

Name of the Client	The Sandur Manganese & Iron Ores Limited
Name of the Project	Mining Lease No. 2679
Month	January to March, 2026
Sample Type	Dust Fall
Duration of Monitoring	Three Month

Result

Code	Location	Result
DF1	Mine Office Area	0.045
DF2	Near Crusher Area	0.057

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TEST REPORT

Table No. 5

AMBIENT NOISE LEVEL DATA (AVERAGE)

Name of the Client		: The Sandur Manganese & Iron Ores Limited	
Name of the Project		: Mining Lease No. 2679	
Sample Collected by		: Environmental Laboratory (vices) (Unit of Mineral Engineering Services LLP)	
Particulars of Sample		: Noise levels	
Month		: January to March, 2026	
Sampling		: IS : 9989 & CPCB Guideline	
Code No.	Monitoring stations	Day	Night
		L _{eq}	L _{eq}
Corezone			
N1	Core zone ML Area	58.4	48.8
N2	Myadara Banda Block	51.4	46.0
N3	Goerner Point	59.3	45.7
N4	Neerlabbi	56.5	47.9
Bufferzone			
N5	Ramgad village	50.5	43.3
N6	Dharmapura	49.4	42.5
N7	Garaga village	46.5	40.8
N8	Yeshwanthanagar	50.8	42.9
N9	Subbarayanahalli	50.0	42.2
N10	Siddapura	49.5	43.4

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TEST REPORT

Table No. 6

SOURCE NOISE LEVEL DATA (AVERAGE)

Name of the Client : The Sandur Manganese & Iron Ores Limited		
Name of the Project : Mining Lease No. 2679		
Sample Collected by : Environmental Laborator (Unit of Mineral Engineering Services LLP)		
Particulars of Sample : Noise levels		
Month : January to March, 2026		
Sampling : IS : 9989 & CPCB Guideline		
Code No.	Monitoring stations	Day L _{eq}
Corezone		
N1	Loading Point (During operation)	64.1
N2	Dumping Point (During operation)	73.2
N3	Haulage Road (During operation)	67.8
Heavy Earth Moving Machineries		
N5	Wheel Loader (During operation in side of the cabin)	72.8
N6	Wheel Loader (During operation 10mts outside of the cabin)	74.1
N7	Tata Hitachi 200LC (During operation in side of the cabin)	62.4
N8	Tata Hitachi 200LC (During operation 10mts outside of the cabin)	65.0

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TEST REPORT

Table No. 7

Surface water Test Report (Average)

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 LLP)
Nature of Sample	: Surface Water
Particulars of sample collected	: SW1 - Ragavapura kere water SW2 - Dhananayakana kere water SW3 - Narihalla Upstream water SW4 - Narihalla Downstream water
Month	: January to March, 2026
Ref : IS : 2296, Water Quality Standards	

Sl. No.	Parameters	Results			
		Average			
		SW1	SW2	SW3	SW4
1	pH	8.19	8.27	8.30	8.34
2	Colour (Hazen Units)	15.00	#DIV/0!	#DIV/0!	10.00
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable
4	Total Dissolved Solids (mg/l)	209.33	300.00	650.50	542.00
5	Total Suspended Solids, mg/l	67.00	113.33	112.00	108.00
6	Dissolved Oxygen (as O ₂), mg/l	5.43	5.77	5.25	5.25
7	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	<3.0	<3.0	<3.0
8	Total Hardness (as CaCO ₃),mg/l	114.00	131.67	535.00	405.00
9	Sulphates as SO ₄ (mg/l)	22.67	30.67	65.00	50.00
10	Phosphates (as P), mg/l	<0.05	<0.05	<0.05	<0.05
11	Chloride (as Cl),mg/l	26.67	75.00	302.50	285.00
12	Fluoride (as F),mg/l	0.51	0.55	0.85	0.87
13	Sulphide (as H ₂ S), mg/l	<0.01	<0.01	<0.01	<0.01
14	Boron (as B), mg/l	<0.1	<0.1	<0.1	<0.1
15	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	<0.005
16	Percent of Sodium (%)	25.33	33.00	24.00	28.50
17	Residual Sodium Carbonate (meq/l)	<0.5	<0.5	<0.5	<0.5
18	Total Coliform, MPN/100ml	64.67	84.00	130.00	115.00

[Signature]
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