

# The Sandur Manganese & Iron Ores Limited

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(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/070426/2679/27

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 reports pertaining to monitoring of environmental parameters for the month of March 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.  
4. Consent for Operation No. AW-351293 dated 12 November 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 March 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](http://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

12<sup>th</sup> 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 2<sup>nd</sup> Cross St Thomas Town Post,  
Kammanahalli, Bengaluru-560084,  
Karnataka.

**Subject: Recognition of M/s Environmental Laboratory (Unit of Mineral Engineering Services), 948 2<sup>nd</sup> 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 2<sup>nd</sup> 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 (NO<sub>2</sub>), Sulphur Dioxide (SO<sub>2</sub>), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter (PM<sub>10</sub>), Ammonia, Carbon monoxide, Chlorine, Lead, Ozone, Benzene Toluene Xylene (BTX), Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrene & others and PM<sub>2.5</sub>.
  - 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-क्लोरीनेटेड 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 (एनओ<sub>2</sub>), सल्फर डाइऑक्साइड (एसओ<sub>2</sub>), कुल निलंबित विविक्त कण, श्वसन योग्य निलंबित कण पदार्थ (पीएम<sub>10</sub>), अमोनिया, कार्बन मोनोऑक्साइड, क्लोरीन, सीसा, ओजोन, बेंजीन टोल्युनि जाइलीन (बीटीएक्स), पॉलीसाइक्लिक एरोमैटिक हाइड्रोकार्बन (पीएच) बेंजो-ए-पाइरिन और अन्य और पीएम<sub>2.5</sub>।
- 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) एक्यूसी (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          | <b>Ramgad Manganese Ore Mine<br/>ML No. 2679</b>         |
| Location         | Ramgad village, Sandur Taluk,<br>Ballari Dist, Karnataka |
| Client           | M/s. The Sandur Manganese &<br>Iron Ores Limited         |
| Office Address   | Sandur, Ballari District, Karnataka                      |
| Monitoring Month | March -2026  |

## **ENVIRONMENTAL LABORATORY** **(Unit of Mineral Engineering Services LLP)**

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

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Accredited by NABL

#948, 2<sup>nd</sup> Cross, Kammanahalli Main Road,

St Thomas Town Post,

Bangalore- 560 084, Karnataka

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## TEST REPORT

Table No.1

### AMBIENT AIR QUALITY

| <b>Name of the Client</b>   | : The Sandur Manganese & Iron Ores Limited                            |   |  |   |  |  |
|---|---|---|--|---|--|--|
| <b>Name of the Project</b>  | : Mining Lease No. 2679   |   |  |   |  |  |
| <b>Location</b>   | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka               |   |  |   |  |  |
| <b>Sample Collected by</b>  | : Environmental Laboratory (Unit of Mineral Engineering Services LLP) |   |  |   |  |  |
| <b>Code &amp; Station</b>   | : A1 - ML Area (Core Zone)  |   |  |   |  |  |
| <b>Duration</b>   | : 24 Hrs  |   |  |   |  |  |
| <b>Issue date</b>   | : 02.04.2026  |   |  |   |  |  |
| <b>Sampling &amp; Test Method</b>                                       | : IS 5182 & Lab SOP   |   |  |   |  |  |
| Date of Sampling  | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|   |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026  | N013926031  | 12  | 18   | 47                                      | 26                                       | 0.31                                     |
| 07.03.2026  | N003526032  | 11  | 15   | 54                                      | 30                                       | 0.42                                     |
| 13.03.2026  | N031526032  | 10  | 13   | 53                                      | 28                                       | 0.28                                     |
| 14.03.2026  | N000526033  | 12  | 16   | 60                                      | 37                                       | 0.36                                     |
| 16.03.2026  | N004326033  | 9   | 12   | 40                                      | 24                                       | 0.52                                     |
| 17.03.2026  | N009326033  | 13  | 18   | 57                                      | 32                                       | 0.48                                     |
| 25.03.2026  | N021826034  | 11  | 15   | 50                                      | 28                                       | 0.32                                     |
| 26.03.2026  | N025326034  | 9   | 13   | 47                                      | 26                                       | 0.28                                     |
| <b>NAAQS Limits for Industrial , Residential, Rural and other Areas</b> |   | <b>80</b><br>24 Hrs                                   | <b>80</b><br>24 Hrs                                    | <b>100</b><br>24 Hrs                    | <b>60</b><br>24 Hrs                      | <b>4</b><br>1 Hr                         |
| <b>Note : * Parameters monitored for period of 1 hr</b>                 |   |   |  |   |  |  |

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## TEST REPORT

Table No.2

### AMBIENT AIR QUALITY

| <b>Name of the Client</b>   | : The Sandur Manganese & Iron Ores Limited                            |   |  |   |  |  |
|---|---|---|--|---|--|--|
| <b>Name of the Project</b>  | : Mining Lease No. 2679   |   |  |   |  |  |
| <b>Location</b>   | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka               |   |  |   |  |  |
| <b>Sample Collected by</b>  | : Environmental Laboratory (Unit of Mineral Engineering Services LLP) |   |  |   |  |  |
| <b>Code &amp; Station</b>   | : A2 - Core Zone (Myadara Banda Block)                                |   |  |   |  |  |
| <b>Duration</b>   | : 24 Hrs  |   |  |   |  |  |
| <b>Issue date</b>   | : 02.04.2026  |   |  |   |  |  |
| <b>Sampling &amp; Test Method</b> : IS 5182 & Lab SOP                   |   |   |  |   |  |  |
| Date of Sampling  | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|   |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026  | N014026031  | 9   | 11   | 38                                      | 22                                       | 0.29                                     |
| 07.03.2026  | N003626032  | 10  | 13   | 45                                      | 28                                       | 0.22                                     |
| 13.03.2026  | N031726032  | 12  | 16   | 57                                      | 33                                       | 0.20                                     |
| 14.03.2026  | N000726033  | 11  | 18   | 54                                      | 30                                       | 0.32                                     |
| 16.03.2026  | N004526033  | 12  | 17   | 48                                      | 26                                       | 0.28                                     |
| 17.03.2026  | N009526033  | 10  | 15   | 53                                      | 28                                       | 0.42                                     |
| 25.03.2026  | N022026034  | 10  | 16   | 55                                      | 29                                       | 0.36                                     |
| 26.03.2026  | N025526034  | 9   | 11   | 43                                      | 25                                       | 0.24                                     |
| <b>NAAQS Limits for Industrial , Residential, Rural and other Areas</b> |   | <b>80</b><br>24 Hrs                                   | <b>80</b><br>24 Hrs                                    | <b>100</b><br>24 Hrs                    | <b>60</b><br>24 Hrs                      | <b>4</b><br>1 Hr                         |
| <b>Note : * Parameters monitored for period of 1 hr</b>                 |   |   |  |   |  |  |

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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   | : 02.04.2026  |   |  |   |  |  |
| Sampling & Test Method   | : IS 5182 & Lab SOP   |   |  |   |  |  |
| Date of Sampling   | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|  |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026   | N014126031  | 7   | 9  | 39                                      | 22                                       | 0.22                                     |
| 07.03.2026   | N003726032  | 14  | 19   | 53                                      | 30                                       | 0.20                                     |
| 13.03.2026   | N031826032  | 12  | 15   | 57                                      | 33                                       | 0.45                                     |
| 14.03.2026   | N000826033  | 10  | 12   | 47                                      | 26                                       | 0.38                                     |
| 16.03.2026   | N004626033  | 13  | 17   | 54                                      | 30                                       | 0.52                                     |
| 17.03.2026   | N009626033  | 11  | 14   | 35                                      | 22                                       | 0.47                                     |
| 25.03.2026   | N022126034  | 14  | 19   | 56                                      | 32                                       | 0.32                                     |
| 26.03.2026   | N025626034  | 10  | 13   | 50                                      | 27                                       | 0.28                                     |
| NAAQS Limits for Industrial , Residential, Rural and other Areas |   | 80<br>24 Hrs  | 80<br>24 Hrs   | 100<br>24 Hrs                           | 60<br>24 Hrs                             | 4<br>1 Hr                                |
| Note : * Parameters monitored for period of 1 hr                 |   |   |  |   |  |  |

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## TEST REPORT

Table No.4

### AMBIENT AIR QUALITY

| <b>Name of the Client</b>   | : The Sandur Manganese & Iron Ores Limited                            |   |  |   |  |  |
|---|---|---|--|---|--|--|
| <b>Name of the Project</b>  | : Mining Lease No. 2679   |   |  |   |  |  |
| <b>Location</b>   | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka               |   |  |   |  |  |
| <b>Sample Collected by</b>  | : Environmental Laboratory (Unit of Mineral Engineering Services LLP) |   |  |   |  |  |
| <b>Code &amp; Station</b>   | : A4 - Core Zone (Neerlabi)   |   |  |   |  |  |
| <b>Duration</b>   | : 24 Hrs  |   |  |   |  |  |
| <b>Issue date</b>   | : 02.04.2026  |   |  |   |  |  |
| <b>Sampling &amp; Test Method:</b> IS 5182 & Lab SOP                    |   |   |  |   |  |  |
| Date of Sampling  | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|   |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026  | N014226031  | 13  | 18   | 60                                      | 33                                       | 0.43                                     |
| 07.03.2026  | N003826032  | 9   | 11   | 57                                      | 30                                       | 0.28                                     |
| 13.03.2026  | N031926032  | 11  | 13   | 55                                      | 28                                       | 0.38                                     |
| 14.03.2026  | N000926033  | 15  | 19   | 48                                      | 26                                       | 0.42                                     |
| 16.03.2026  | N004726033  | 11  | 16   | 44                                      | 23                                       | 0.34                                     |
| 17.03.2026  | N009726033  | 9   | 13   | 35                                      | 22                                       | 0.29                                     |
| 25.03.2026  | N022226034  | 10  | 12   | 46                                      | 28                                       | 0.33                                     |
| 26.03.2026  | N025726034  | 13  | 18   | 56                                      | 32                                       | 0.28                                     |
| <b>NAAQS Limits for Industrial , Residential, Rural and other Areas</b> |   | <b>80</b><br>24 Hrs                                   | <b>80</b><br>24 Hrs                                    | <b>100</b><br>24 Hrs                    | <b>60</b><br>24 Hrs                      | <b>4</b><br>1 Hr                         |
| <b>Note : * Parameters monitored for period of 1 hr</b>                 |   |   |  |   |  |  |

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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   | : 02.04.2026  |   |  |   |  |  |
| Sampling & Test Method   | : IS 5182 & Lab SOP   |   |  |   |  |  |
| Date of Sampling   | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|  |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026   | N014326031  | 12  | 16   | 58                                      | 33                                       | 0.42                                     |
| 07.03.2026   | N003926032  | 9   | 12   | 42                                      | 23                                       | 0.55                                     |
| 13.03.2026   | N032026032  | 14  | 19   | 55                                      | 30                                       | 0.36                                     |
| 14.03.2026   | N001026033  | 12  | 15   | 53                                      | 28                                       | 0.48                                     |
| 16.03.2026   | N004826033  | 11  | 13   | 48                                      | 24                                       | 0.51                                     |
| 17.03.2026   | N009826033  | 9   | 11   | 38                                      | 21                                       | 0.27                                     |
| 25.03.2026   | N022326034  | 10  | 15   | 60                                      | 33                                       | 0.38                                     |
| 26.03.2026   | N025826034  | 9   | 13   | 43                                      | 26                                       | 0.29                                     |
| NAAQS Limits for Industrial , Residential, Rural and other Areas |   | 80<br>24 Hrs  | 80<br>24 Hrs   | 100<br>24 Hrs                           | 60<br>24 Hrs                             | 4<br>1 Hr                                |
| Note : * Parameters monitored for period of 1 hr                 |   |   |  |   |  |  |

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## TEST REPORT

Table No.6

### AMBIENT AIR QUALITY

| <b>Name of the Client</b>   | : The Sandur Manganese & Iron Ores Limited                            |   |  |   |  |  |
|---|---|---|--|---|--|--|
| <b>Name of the Project</b>  | : Mining Lease No. 2679   |   |  |   |  |  |
| <b>Location</b>   | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka               |   |  |   |  |  |
| <b>Sample Collected by</b>  | : Environmental Laboratory (Unit of Mineral Engineering Services LLP) |   |  |   |  |  |
| <b>Code &amp; Station</b>   | : A6 - Dharmapura village   |   |  |   |  |  |
| <b>Duration</b>   | : 24 Hrs  |   |  |   |  |  |
| <b>Issue date</b>   | : 02.04.2026  |   |  |   |  |  |
| <b>Sampling &amp; Test Method:</b> IS 5182 & Lab SOP                    |   |   |  |   |  |  |
| Date of Sampling  | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|   |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026  | N014426031  | 9   | 11   | 57                                      | 32                                       | 0.45                                     |
| 07.03.2026  | N004026032  | 12  | 15   | 35                                      | 22                                       | 0.52                                     |
| 13.03.2026  | N032126032  | 10  | 13   | 53                                      | 28                                       | 0.31                                     |
| 14.03.2026  | N001126033  | 9   | 15   | 58                                      | 33                                       | 0.46                                     |
| 16.03.2026  | N004926033  | 12  | 18   | 45                                      | 24                                       | 0.22                                     |
| 17.03.2026  | N009926033  | 9   | 13   | 55                                      | 32                                       | 0.29                                     |
| 25.03.2026  | N022426034  | 14  | 18   | 53                                      | 30                                       | 0.31                                     |
| 26.03.2026  | N025926034  | 9   | 11   | 47                                      | 27                                       | 0.44                                     |
| <b>NAAQS Limits for Industrial , Residential, Rural and other Areas</b> |   | <b>80</b><br>24 Hrs                                   | <b>80</b><br>24 Hrs                                    | <b>100</b><br>24 Hrs                    | <b>60</b><br>24 Hrs                      | <b>4</b><br>1 Hr                         |
| <b>Note : * Parameters monitored for period of 1 hr</b>                 |   |   |  |   |  |  |

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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   | : 02.04.2026  |   |  |   |  |  |
| Sampling & Test Method   | : IS 5182 & Lab SOP   |   |  |   |  |  |
| Date of Sampling   | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|  |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026   | N014526031  | 12  | 15   | 55                                      | 32                                       | 0.34                                     |
| 07.03.2026   | N004126032  | 9   | 13   | 45                                      | 22                                       | 0.28                                     |
| 09.03.2026   | N011126032  | 11  | 15   | 56                                      | 33                                       | 0.32                                     |
| 10.03.2026   | N017826032  | 13  | 17   | 44                                      | 26                                       | 0.22                                     |
| 16.03.2026   | N005026033  | 10  | 12   | 50                                      | 30                                       | 0.26                                     |
| 17.03.2026   | N010026033  | 11  | 15   | 40                                      | 24                                       | 0.20                                     |
| 25.03.2026   | N022526034  | 9   | 13   | 52                                      | 28                                       | 0.27                                     |
| 26.03.2026   | N026026034  | 12  | 18   | 56                                      | 32                                       | 0.43                                     |
| NAAQS Limits for Industrial , Residential, Rural and other Areas |   | 80<br>24 Hrs  | 80<br>24 Hrs   | 100<br>24 Hrs                           | 60<br>24 Hrs                             | 4<br>1 Hr                                |
| Note : * Parameters monitored for period of 1 hr                 |   |   |  |   |  |  |

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## TEST REPORT

Table No.8

### AMBIENT AIR QUALITY

| <b>Name of the Client</b>   | : The Sandur Manganese & Iron Ores Limited                            |   |  |   |  |  |
|---|---|---|--|---|--|--|
| <b>Name of the Project</b>  | : Mining Lease No. 2679   |   |  |   |  |  |
| <b>Location</b>   | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka               |   |  |   |  |  |
| <b>Sample Collected by</b>  | : Environmental Laboratory (Unit of Mineral Engineering Services LLP) |   |  |   |  |  |
| <b>Code &amp; Station</b>   | : A8 - Yeswanthanagar   |   |  |   |  |  |
| <b>Duration</b>   | : 24 Hrs  |   |  |   |  |  |
| <b>Issue date</b>   | : 02.04.2026  |   |  |   |  |  |
| <b>Sampling &amp; Test Method:</b> IS 5182 & Lab SOP                    |   |   |  |   |  |  |
| Date of Sampling  | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|   |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026  | N013426031  | 9   | 15   | 43                                      | 25                                       | 0.41                                     |
| 07.03.2026  | N003126032  | 13  | 18   | 50                                      | 31                                       | 0.28                                     |
| 09.03.2026  | N010926032  | 11  | 14   | 47                                      | 29                                       | 0.22                                     |
| 10.03.2026  | N017626032  | 15  | 19   | 54                                      | 30                                       | 0.52                                     |
| 20.03.2026  | N019626033  | 12  | 16   | 59                                      | 33                                       | 0.48                                     |
| 21.03.2026  | N001326034  | 9   | 11   | 46                                      | 23                                       | 0.31                                     |
| 23.03.2026  | N007426034  | 11  | 15   | 52                                      | 28                                       | 0.28                                     |
| 24.03.2026  | N015126034  | 10  | 13   | 56                                      | 30                                       | 0.45                                     |
| <b>NAAQS Limits for Industrial , Residential, Rural and other Areas</b> |   | <b>80</b><br>24 Hrs                                   | <b>80</b><br>24 Hrs                                    | <b>100</b><br>24 Hrs                    | <b>60</b><br>24 Hrs                      | <b>4</b><br>1 Hr                         |
| <b>Note : * Parameters monitored for period of 1 hr</b>                 |   |   |  |   |  |  |

  
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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   | : 02.04.2026  |   |  |   |  |  |
| Sampling & Test Method   | : IS 5182 & Lab SOP   |   |  |   |  |  |
| Date of Sampling   | Report No   | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|  |   |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 06.03.2026   | N013026031  | 15  | 18   | 60                                      | 33                                       | 0.52                                     |
| 07.03.2026   | N002726032  | 12  | 15   | 54                                      | 28                                       | 0.40                                     |
| 09.03.2026   | N010526032  | 9   | 13   | 53                                      | 26                                       | 0.38                                     |
| 10.03.2026   | N017226032  | 10  | 13   | 45                                      | 24                                       | 0.55                                     |
| 20.03.2026   | N019226033  | 7   | 11   | 40                                      | 22                                       | 0.31                                     |
| 21.03.2026   | N000926034  | 14  | 19   | 56                                      | 30                                       | 0.45                                     |
| 23.03.2026   | N007026034  | 12  | 10   | 56                                      | 31                                       | 0.42                                     |
| 24.03.2026   | N014726034  | 9   | 15   | 40                                      | 24                                       | 0.38                                     |
| NAAQS Limits for Industrial , Residential, Rural and other Areas |   | 80<br>24 Hrs  | 80<br>24 Hrs   | 100<br>24 Hrs                           | 60<br>24 Hrs                             | 4<br>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 : 02.04.2026  
Sampling & Test Method: IS 5182 & Lab SOP

| Date of Sampling   | Report No  | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |  | Carbon Monoxide* (CO), mg/m <sup>3</sup> |
|--|------------|---|--|---|--|--|
|  |            |   |  | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |  |
| 04.03.2026   | N004126031 | 11  | 14   | 53                                      | 32                                       | 0.42                                     |
| 05.03.2026   | N008426031 | 12  | 16   | 41                                      | 26                                       | 0.52                                     |
| 13.03.2026   | N031626032 | 14  | 20   | 57                                      | 33                                       | 0.49                                     |
| 14.03.2026   | N000626033 | 12  | 15   | 51                                      | 28                                       | 0.38                                     |
| 16.03.2026   | N004426033 | 11  | 13   | 46                                      | 25                                       | 0.33                                     |
| 17.03.2026   | N009426033 | 9   | 11   | 49                                      | 28                                       | 0.29                                     |
| 25.03.2026   | N021926034 | 12  | 17   | 53                                      | 30                                       | 0.42                                     |
| 26.03.2026   | N025426034 | 9   | 13   | 36                                      | 21                                       | 0.35                                     |
| NAAQS Limits for Industrial , Residential, Rural and other Areas |            | 80<br>24 Hrs  | 80<br>24 Hrs   | 100<br>24 Hrs                           | 60<br>24 Hrs                             | 4<br>1 Hr                                |

Note : \* Parameters monitored for period of 1 hr

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## TEST REPORT

Table No. 11

### Fugitive Emission

| <b>Name of the Client</b>                        | : The Sandur Manganese & Iron Ores Limited   |            |  |
|--|--|------------|--|
| <b>Name of the Project</b>                       | : Mining Lease No. 2679  |            |  |
| <b>Location</b>                                  | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka  |            |  |
| <b>Sample Collected by</b>                       | : Environmental Laboratory<br>(Unit of Mineral Engineering Services LLP)   |            |  |
| <b>Duration</b>                                  | : 08 Hrs   |            |  |
| <b>Issue Date</b>                                | : 02.04.2026   |            |  |
| Code & Station                                   | Date of sample   | Report No  | Particulate mater ( $\mu\text{g}/\text{m}^3$ ) |
| FA1, Loading point (Neerlabi)                    | 13.03.2026   | N032226032 | 365  |
| FA2, Dumping point (Neerlabi)                    | 13.03.2026   | N032326032 | 425  |
| FA3, Haulage Road (Neerlabi)                     | 14.03.2026   | N001226033 | 438  |
| FA4, Stack Yard (Neerlabi)                       | 14.03.2026   | N001326033 | 325  |
| FA5, Drilling Point (Neerlabi)                   | 16.03.2026   | N005126033 | 336  |
| FA6, Waste Dumping Point (Neerlabi)              | 16.03.2026   | N005226033 | 342  |
| Ref  | : Environmental (Protection) Rules, 2010 (Sixth Amendment)   |            |  |
| <b>Permissible limits for Fugitive Emissions</b> | <b>Particulate mater (<math>\mu\text{g}/\text{m}^3</math>)</b><br><b>600 <math>\mu\text{g}/\text{m}^3</math></b> |            |  |

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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                  | 01.03.2026 to 31.03.2026                              |
| Sample Type            | Total Dust Fall Rate                                  |
| Duration of Monitoring | One Month   |
| Issue Date             | 02.04.2026  |

### Result

| Code | Location          | Result | unit                   | Reference Method         |
|------|-------------------|--------|------------------------|--------------------------|
| DF1  | Mine Office Area  | 0.055  | g/m <sup>2</sup> month | IS 5182 (Part 01) : 2006 |
| DF2  | Near Crusher Area | 0.063  | g/m <sup>2</sup> 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 : ELMES026305

| <b>Name of the Client</b>  | : The Sandur Manganese & Iron Ores Limited                               |                    |                  |                 |                  |                  |                 |                  |
|--|--|--------------------|------------------|-----------------|------------------|------------------|-----------------|------------------|
| <b>Name of the Project</b>   | : Mining Lease No. 2679  |                    |                  |                 |                  |                  |                 |                  |
| <b>Location</b>  | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka                  |                    |                  |                 |                  |                  |                 |                  |
| <b>Sample Collected by</b>   | : Environmental Laboratory<br>(Unit of Mineral Engineering Services LLP) |                    |                  |                 |                  |                  |                 |                  |
| <b>Particulars of Sample</b>   | : Noise levels   |                    |                  |                 |                  |                  |                 |                  |
| <b>Issue Date</b>  | : 02.04.2026   |                    |                  |                 |                  |                  |                 |                  |
| <b>Sampling</b>  | : IS : 9989 & CPCB Guidelines  |                    |                  |                 |                  |                  |                 |                  |
| <b>Corezone</b>  |  |                    |                  |                 |                  |                  |                 |                  |
| Code No.   | Monitoring stations  | Date of monitoring | Day              |                 |                  | Night            |                 |                  |
|  |  |                    | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> |
| N1   | Core zone ML Area  | 13.03.2026         | 40.0             | 57.7            | 65.0             | 36.0             | 49.3            | 56.0             |
| N2   | Myadara Banda Block  | 13.03.2026         | 36.0             | 50.4            | 56.3             | 35.0             | 46.3            | 53.0             |
| N3   | Governor Point)  | 13.03.2026         | 41.0             | 61.1            | 68.0             | 35.3             | 46.6            | 54.0             |
| N4   | Neerlabbi  | 13.03.2026         | 38.0             | 55.2            | 63.7             | 36.0             | 45.8            | 53.2             |
| <b>Bufferzone</b>  |  |                    |                  |                 |                  |                  |                 |                  |
| Code No.   | Monitoring stations  | Date of monitoring | Day              |                 |                  | Night            |                 |                  |
|  |  |                    | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> |
| N5   | Ramgad village   | 14.03.2026         | 37.2             | 50.2            | 56.3             | 35.0             | 43.2            | 46.2             |
| N6   | Dharmapura   | 14.03.2026         | 35.3             | 47.5            | 55.7             | 34.8             | 42.4            | 46.3             |
| N7   | Garaga village   | 14.03.2026         | 34.0             | 44.9            | 53.5             | 34.0             | 40.8            | 43.5             |
| N8   | Yeshwanthanagar  | 16.03.2026         | 36.0             | 50.4            | 56.8             | 35.0             | 42.8            | 48.0             |
| N9   | Subbarayanahalli   | 16.03.2026         | 37.0             | 49.8            | 56.0             | 36.0             | 42.3            | 45.8             |
| N10  | Siddapura  | 16.03.2026         | 39.0             | 50.0            | 58.0             | 34.0             | 43.5            | 47.0             |
| <b>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</b> |  |                    |                  |                 |                  |                  |                 |                  |
|  |  |                    | 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 : ELMES026306

|                       |   |
|-----------------------|---|
| 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            | : 02.04.2026  |
| Sampling              | : IS : 9989 & CPCB Guidelines   |

#### Source

| Code No. | Monitoring stations | Date of monitoring | Day              |                 |                  | Remarks          |
|----------|---------------------|--------------------|------------------|-----------------|------------------|------------------|
|          |                     |                    | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> |                  |
| N1       | Loading Point       | 14.03.2026         | 40.0             | 61.5            | 68.0             | During operation |
| N2       | Dumping Point       | 14.03.2026         | 42.8             | 73.0            | 78.8             | During operation |
| N3       | Haulage Road        | 14.03.2026         | 44.6             | 70.4            | 80.0             | 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 <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> |   |
| N4       | Wheel Loader        | 14.03.2026         | 41.0             | 73.4            | 80.0             | During operation in side of the cabin       |
|          |                     |                    | 44.0             | 75.1            | 82.0             | During operation 10mts outside of the cabin |
| N5       | Tata Hitachi 200LC  | 14.03.2026         | 43.0             | 61.1            | 70.0             | During operation in side of the cabin       |
|          |                     |                    | 44.0             | 66.7            | 73.0             | 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  |            |     |     | Limits     | Method of Testing              |
| 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)   |            |     |     |            |                                |
| Nature of sample                         |  | : Surface water   |            |     |     |            |                                |
| Sample Location                          |  | : SW1 - Ragavapura kere water, SW2 - Dhananayakana kere water<br>: SW3 - Narihalla Upstream water, SW4 - Narihalla Downstream water |            |     |     |            |                                |
| Issue Date                               |  | : 02.04.2026  |            |     |     |            |                                |
| Ref : IS : 2296, Water Quality Standards |  |   |            |     |     |            |                                |
| Date of sample collection                |  | 06.03.2026  | 06.03.2026 | -   | -   |            |                                |
| Date of sample receipt                   |  | 07.03.2026  | 07.03.2026 | -   | -   |            |                                |
| Report No                                |  | M004826031  | M004926031 | -   | -   |            |                                |
| Sl.No.                                   | Samples Code   | SW1   | SW2        | SW3 | SW4 |            |                                |
| Parameters                               |  | Results   |            |     |     |            |                                |
| 1  | pH   | 8.14  | 8.11       | Dry | Dry | 6.5 to 8.5 | IS:3025(Part-11)2022           |
| 2  | Colour (Hazen Units), Max                            | 10  | 10         |     |     | 300        | IS 3025 (Part 11) 2022         |
| 3  | Odour  | Agreeable   | Agreeable  |     |     | -          | IS:3025 (P-5) 2018             |
| 4  | Total Dissolved Solids (mg/l), Max                   | 222   | 380        |     |     | 1500       | IS 3025 (Part 16) 2023         |
| 5  | Total Suspended Solids, mg/l                         | 50.0  | 180.0      |     |     | -          | IS 3025 (Part 17) 2023         |
| 6  | Dissolved Oxygen (as O <sub>2</sub> ), mg/l,         | 5.00  | 5.90       |     |     | Min 4      | IS:3025(Part-38)1989RA 2019    |
| 7  | Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l | <3.0  | <3.0       |     |     | 3          | IS 3025 (Part 44) 2023         |
| 8  | Total Hardness (as CaCO <sub>3</sub> ),mg/l,Max      | 134   | 145        |     |     | -          | IS:3025 (P-21);2009 RA 2023    |
| 9  | Sulphates as SO <sub>4</sub> (mg/l), Max             | 30.0  | 45.0       |     |     | 400        | APHA (24th Edition ):4110B     |
| 10                                       | Phosphates (as P), mg/l                              | <0.05   | <0.05      |     |     | -          | IS 3025 (P-31) Sec 1 2022 1976 |
| 11                                       | Chloride (as Cl),mg/l, Max                           | 22.0  | 90.0       |     |     | 600        | IS:3025(Part-32) 1988RA2019    |
| 12                                       | Fluoride (as F),mg/l, Max                            | 0.40  | 0.48       |     |     | 1.5        | IS 3025 (Part 60-Sec1) 2023    |
| 13                                       | Sulphide (as H <sub>2</sub> S), mg/l, Max            | <0.01   | <0.01      |     |     | -          | IS:3025 (P-29) 2022            |
| 14                                       | Boron (as B), mg/l, Max                              | <0.1  | <0.1       |     |     | -          | IS:3025 (Part-57) 2021         |
| 15                                       | Iron (as Fe),mg/l, Max                               | <0.005  | <0.005     |     |     | 50         | IS 3025 (Part 65) 2022         |
| 16                                       | Percent of Sodium (%)                                | 28  | 32         |     |     | -          | IS 2488 part 5                 |
| 17                                       | Residual Sodium Carbonate (meq/l)                    | <0.05   | <0.05      |     |     | -          | IS 11624 .2009                 |
| 18                                       | Total Coliform, MPN/100ml                            | 68  | 92         |     |     | 5000       | IS 15185 2016 RA 2021          |

""END OF REPORT""

  
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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 23.05.2028

## TEST REPORT

Table No. 16

| 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)   |              |   |                    |                                 |
| Nature of sample   |  | : Ground water (Bore Well)  |              |   |                    |                                 |
| Sample Location  |  | : GW1 - Project Site Core Zone Borewell water, GW2 - Ramghad Bore water |              |   |                    |                                 |
| Issue Date   |  | : 02.04.2026  |              |   |                    |                                 |
| Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards) |  |   |              |   |                    |                                 |
| Date of sample collection  |  | 14.03.2026  | 14.03.2026   | Desirable Limits                            | Permissible Limits | Method of Testing               |
| Date of sample receipt   |  | 16.03.2026  | 16.03.2026   |   |                    |                                 |
| Report No  |  | M000126033  | M000226033   | Desirable Limits                            | Permissible Limits | Method of Testing               |
| Sample Code  |  | GW1   | GW2          |   |                    |                                 |
| Sl. No.  | Parameters   | Results   |              | Desirable Limits                            | Permissible Limits | Method of Testing               |
| 1  | Colour (Hazen Units)                                 | 1   | 1            |   |                    |                                 |
| 2  | Odour  | Agreeable   | Agreeable    | Agreeable                                   | Agreeable          | IS:3025 (P-5) 2018              |
| 3  | pH Value   | 6.68  | 6.66         | 6.5 to 8.5                                  | 6.5 - 8.5          | IS:3025 (P-11)2022              |
| 4  | Taste  | Agreeable   | Agreeable    | Agreeable                                   | Agreeable          | IS:3025 (P- 8) 2023             |
| 5  | Turbidity,NTU  | 1.30  | 2.10         | 1   | 5                  | IS:3025 (P-10) 2023             |
| 6  | Total Dissolved Solids,mg/l                          | 120.0   | 102.0        | 500   | 2000               | IS:3025 (P-16) 2023             |
| 7  | Aluminium (as Al)                                    | <0.005  | <0.005       | 0.03  | 0.2                | IS:3025 (P-55) 2022             |
| 8  | Ammonia (as total Ammonia -N),mg/l                   | <0.1  | <0.1         | 0.5   | 0.5                | IS:3025 (P-34)1 Sec 1 2023      |
| 9  | Anionic Detergents (as MBAS),mg/l                    | <0.1  | <0.1         | 0.2   | 1.0                | IS:3025 (P-68) 2023             |
| 10   | Barium (as Ba), mg/l                                 | <0.005  | <0.005       | 0.7   | 0.7                | IS:3025(P-65) 2022              |
| 11   | Boron (as B), mg/l                                   | <0.1  | <0.1         | 0.5   | 2.4                | IS:3025 (Part-57) 2021          |
| 12   | Calcium (as Ca),mg/l                                 | 16.80   | 8.00         | 75  | 200                | IS:3025 (P-40) 2021             |
| 13   | Chloramines as C12                                   | <0.1  | <0.1         | 4   | 4                  | Clause 6 of IS 3025 (P-26) 2021 |
| 14   | Chloride as Cl (mg/l)                                | 17.00   | 42.00        | 250   | 1000               | IS:3025 (P-32)1988 RA 2019      |
| 15   | Copper (as Cu),mg/l                                  | <0.0005   | <0.0005      | 0.05  | 1.5                | IS:3025 (P-65) 2022             |
| 16   | Fluoride (as F),mg/l                                 | 0.58  | 0.36         | 1   | 1.5                | IS:3025 (P-60) Sec 2022         |
| 17   | Residual, Free Chlorine,mg/l                         | <0.1  | <0.1         | 0.2   | 1                  | IS:3025 (P-26) 2021             |
| 18   | Iron (as Fe),mg/l                                    | <0.005  | <0.005       | 1.0   | 1.0                | IS:3025 (Part-65) 2022          |
| 19   | Magnesium (as Mg)mg/l                                | 9.23  | 3.90         | 30  | 100                | IS:3025 (P-46)1 2023            |
| 20   | Manganese (as Mn),mg/l                               | <0.001  | <0.001       | 0.1   | 0.3                | IS:3025 (P-65) 2022             |
| 21   | Mineral Oil,mg/l                                     | <0.5  | <0.5         | 1.0   | 1.0                | IS:3025 (P-39) 2021             |
| 22   | Nitrates (as NO <sub>3</sub> ),mg/l                  | 8.00  | 6.00         | 45  | 45                 | IS:3025 (P-34) 1988 RA 2019     |
| 23   | Phenolics (as C <sub>6</sub> H <sub>5</sub> OH),mg/l | <0.001  | <0.001       | 0.001                                       | 0.002              | IS:3025 (P-43) Sec 1 2023       |
| 24   | Selenium (as Se),mg/l                                | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025(P-65) 2022              |
| 25   | Silver (as Ag), mg/l                                 | <0.005  | <0.005       | 0.1   | 0.1                | IS:3025(P-65) 2022              |
| 26   | Sulphate (as SO <sub>4</sub> ),mg/l                  | 7.00  | 12.00        | 200   | 400                | IS:3025 (P-24) Sec 1 2022       |
| 27   | Sulphide (as H <sub>2</sub> S) , mg/l                | <0.01   | <0.01        | 0.05  | 0.05               | IS:3025 (P-29) 2022             |
| 28   | Total Alkalinity (as CaCO <sub>3</sub> ) mg/l        | 88.0  | 20.0         | 200   | 600                | IS:3025 (P-23):2023             |
| 29   | Total Hardness (as CaCO <sub>3</sub> ),mg/l          | 80.0  | 36.0         | 200   | 600                | IS:3025 (P-21):2009 RA 2023     |
| 30   | Zinc (as Zn),mg/l                                    | <0.005  | <0.005       | 5   | 15                 | IS:3025 (P-65) 2022             |
| 31   | Cadmium (as Cd),mg/l                                 | <0.0005   | <0.0005      | 0.003                                       | 0.003              | IS:3025 (P-65) 2022             |
| 32   | Cyanide (as CN),mg/l                                 | <0.01   | <0.01        | 0.05  | 0.05               | IS:3025 (P-27)Sec 1 2021        |
| 33   | Lead (as Pb),mg/l                                    | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025 (P-65) 2022             |
| 34   | Mercury (as Hg),mg/l                                 | <0.0005   | <0.0005      | 0.001                                       | 0.001              | IS:3025 (P-65) 2022             |
| 35   | Molybdenum (as Mo), mg/l                             | <0.0005   | <0.0005      | 0.07  | 0.07               | IS:3025 (P-65) 2022             |
| 36   | Nickel (as Ni),mg/l                                  | <0.01   | <0.01        | 0.02  | 0.02               | IS:3025 (P-65) 2022             |
| 37   | Arsenic (as As),mg/l                                 | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025 (P-65) 2022             |
| 38   | Total Chromium (as Cr),mg/l                          | <0.001  | <0.001       | 0.05  | 0.05               | IS:3025 (P-65) 2022             |
| 39   | Escherichia coli/100ml                               | Not Detected  | Not Detected | Shall not be detectable in any 100ml Sample |                    | IS:15185:2016 RA 2021           |
| 40   | Total Coliform /100ml                                | Not Detected  | Not Detected | Shall not be detectable in any 100ml Sample |                    | IS:15185:2016 RA 2021           |
| 41   | Electrical Conductivity (µmhos/cm)                   | 220.0   | 190.0        | -   | -                  | IS 3025 (P-14) 2013 RA 2023     |

"END OF REPORT"

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(UNIT OF MINERAL ENGINEERING SERVICES LLP)

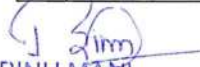
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Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2028


## TEST REPORT

Table No. 17

|  |  |   |              |   |                    |                                 |
|--|--|---|--------------|---|--------------------|---------------------------------|
| 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) |              |   |                    |                                 |
| Nature of sample   |  | : Ground water (Bore Well)  |              |   |                    |                                 |
| Sample Location  |  | : GW3 - Dharmapura Bore water, GW4 - Garaga Bore water                |              |   |                    |                                 |
| Issue Date   |  | : 02.04.2026  |              |   |                    |                                 |
| Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards) |  |   |              |   |                    |                                 |
| Date of sample collection  |  | 14.03.2026  | 14.03.2026   | Desirable Limits                            | Permissible Limits | Method of Testing               |
| Date of sample receipt   |  | 16.03.2026  | 16.03.2026   |   |                    |                                 |
| Report No  |  | M000326033  | M000426033   | Desirable Limits                            | Permissible Limits | Method of Testing               |
| Sample Code  |  | GW3   | GW4          |   |                    |                                 |
| Sl. No.  | Parameters   | Results   |              | Desirable Limits                            | Permissible Limits | Method of Testing               |
|  |  |   |              |   |                    |                                 |
| 1  | Colour (Hazen Units)                                 | 1   | 1            | 5   | 15                 | IS:3025 (P-4) 2021              |
| 2  | Odour  | Agreeable   | Agreeable    | Agreeable                                   | Agreeable          | IS:3025 (P-5) 2018              |
| 3  | pH Value   | 7.21  | 8.25         | 6.5 to 8.5                                  | 6.5 - 8.5          | IS:3025 (P-11)2022              |
| 4  | Taste  | Agreeable   | Agreeable    | Agreeable                                   | Agreeable          | IS:3025 (P- 8) 2023             |
| 5  | Turbidity,NTU  | 1.50  | 2.00         | 1   | 5                  | IS:3025 (P-10) 2023             |
| 6  | Total Dissolved Solids,mg/l                          | 1026.0  | 600.0        | 500   | 2000               | IS:3025 (P-16) 2023             |
| 7  | Aluminium (as Al)                                    | <0.005  | <0.005       | 0.03  | 0.2                | IS:3025 (P-55) 2022             |
| 8  | Ammonia (as total Ammonia -N),mg/l                   | <0.1  | <0.1         | 0.5   | 0.5                | IS:3025 (P-34)1 Sec 1 2023      |
| 9  | Anionic Detergents (as MBAS),mg/l                    | <0.1  | <0.1         | 0.2   | 1.0                | IS:3025 (P-68) 2023             |
| 10   | Barium (as Ba), mg/l                                 | <0.005  | <0.005       | 0.7   | 0.7                | IS:3025(P-65) 2022              |
| 11   | Boron (as B), mg/l                                   | <0.1  | <0.1         | 0.5   | 2.4                | IS:3025 (Part-57) 2021          |
| 12   | Calcium (as Ca),mg/l                                 | 160.30  | 52.10        | 75  | 200                | IS:3025 (P-40) 2021             |
| 13   | Chloramines as C12                                   | <0.1  | <0.1         | 4   | 4                  | Clause 6 of IS 3025 (P-26) 2021 |
| 14   | Chloride as Cl (mg/l)                                | 210.00  | 120.00       | 250   | 1000               | IS:3025 (P-32)1988 RA 2019      |
| 15   | Copper (as Cu),mg/l                                  | <0.0005   | <0.0005      | 0.05  | 1.5                | IS:3025 (P-65) 2022             |
| 16   | Fluoride (as F),mg/l                                 | 1.10  | 1.84         | 1   | 1.5                | IS:3025 (P-60) Sec 2022         |
| 17   | Residual, Free Chlorine,mg/l                         | <0.1  | <0.1         | 0.2   | 1                  | IS:3025 (P-26) 2021             |
| 18   | Iron (as Fe),mg/l                                    | <0.005  | <0.005       | 1.0   | 1.0                | IS:3025 (Part-65) 2022          |
| 19   | Magnesium (as Mg)mg/l                                | 75.30   | 26.70        | 30  | 100                | IS:3025 (P-46)1 2023            |
| 20   | Manganese (as Mn),mg/l                               | <0.001  | <0.001       | 0.1   | 0.3                | IS:3025 (P-65) 2022             |
| 21   | Mineral Oil,mg/l                                     | <0.5  | <0.5         | 1.0   | 1.0                | IS:3025 (P-39) 2021             |
| 22   | Nitrates (as NO <sub>3</sub> ),mg/l                  | 36.00   | 11.18        | 45  | 45                 | IS:3025 (P-34) 1988 RA 2019     |
| 23   | Phenolics (as C <sub>6</sub> H <sub>5</sub> OH),mg/l | <0.001  | <0.001       | 0.001                                       | 0.002              | IS:3025 (P-43) Sec 1 2023       |
| 24   | Selenium (as Se),mg/l                                | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025(P-65) 2022              |
| 25   | Silver (as Ag), mg/l                                 | <0.005  | <0.005       | 0.1   | 0.1                | IS:3025(P-65) 2022              |
| 26   | Sulphate (as SO <sub>4</sub> ),mg/l                  | 100.00  | 50.00        | 200   | 400                | IS:3025 (P-24) Sec 1 2022       |
| 27   | Sulphide (as H <sub>2</sub> S) , mg/l                | <0.01   | <0.01        | 0.05  | 0.05               | IS:3025 (P-29) 2022             |
| 28   | Total Alkalinity (as CaCO <sub>3</sub> ) mg/l        | 550.0   | 310.0        | 200   | 600                | IS:3025 (P-23):2023             |
| 29   | Total Hardness (as CaCO <sub>3</sub> ),mg/l          | 710.0   | 240.0        | 200   | 600                | IS:3025 (P-21):2009 RA 2023     |
| 30   | Zinc (as Zn),mg/l                                    | <0.005  | <0.005       | 5   | 15                 | IS:3025 (P-65) 2022             |
| 31   | Cadmium (as Cd),mg/l                                 | <0.0005   | <0.0005      | 0.003                                       | 0.003              | IS:3025 (P-65) 2022             |
| 32   | Cyanide (as CN),mg/l                                 | <0.01   | <0.01        | 0.05  | 0.05               | IS:3025 (P-27)Sec 1 2021        |
| 33   | Lead (as Pb),mg/l                                    | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025 (P-65) 2022             |
| 34   | Mercury (as Hg),mg/l                                 | <0.0005   | <0.0005      | 0.001                                       | 0.001              | IS:3025 (P-65) 2022             |
| 35   | Molybdenum (as Mo), mg/l                             | <0.0005   | <0.0005      | 0.07  | 0.07               | IS:3025 (P-65) 2022             |
| 36   | Nickel (as Ni),mg/l                                  | <0.01   | <0.01        | 0.02  | 0.02               | IS:3025 (P-65) 2022             |
| 37   | Arsenic (as As),mg/l                                 | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025 (P-65) 2022             |
| 38   | Total Chromium (as Cr),mg/l                          | <0.001  | <0.001       | 0.05  | 0.05               | IS:3025 (P-65) 2022             |
| 39   | Escherichia coli/100ml                               | Not Detected  | Not Detected | Shall not be detectable in any 100ml Sample |                    | IS:15185:2016 RA 2021           |
| 40   | Total Coliform /100ml)                               | Not Detected  | Not Detected |   |                    | IS:15185:2016 RA 2021           |
| 41-  | Electrical Conductivity (µmhos/cm)                   | 1800.0  | 1070.0       | --  | --                 | IS 3025 (P-14) 2013 RA 2023     |

"END OF REPORT"

  
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(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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## TEST REPORT

Table No. 18

|  |  |   |              |   |                    |                                 |
|--|--|---|--------------|---|--------------------|---------------------------------|
| 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) |              |   |                    |                                 |
| Nature of sample   |  | : Ground water (Bore Well)  |              |   |                    |                                 |
| Sample Location  |  | : GW5 - Yeshwanthnagar Bore water, GW6 - Subbarayanahalli Bore water  |              |   |                    |                                 |
| Issue Date   |  | : 02.04.2026  |              |   |                    |                                 |
| Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards) |  |   |              |   |                    |                                 |
| Date of sample collection  |  | 10.03.2026  | 10.03.2026   | Desirable Limits                            | Permissible Limits | Method of Testing               |
| Date of sample receipt   |  | 11.03.2026  | 11.03.2026   |   |                    |                                 |
| Report No  |  | M002326032  | M002226032   | Desirable Limits                            | Permissible Limits | Method of Testing               |
| Sample Code  |  | GW5   | GW6          |   |                    |                                 |
| Sl. No.  | Parameters   | Results   |              | Desirable Limits                            | Permissible Limits | Method of Testing               |
|  |  |   |              |   |                    |                                 |
| 1  | Colour (Hazen Units)                                 | 1   | 1            | 5   | 15                 | IS:3025 (P-4) 2021              |
| 2  | Odour  | Agreeable   | Agreeable    | Agreeable                                   | Agreeable          | IS:3025 (P-5) 2018              |
| 3  | pH Value   | 6.68  | 7.84         | 6.5 to 8.5                                  | 6.5 - 8.5          | IS:3025 (P-11)2022              |
| 4  | Taste  | Agreeable   | Agreeable    | Agreeable                                   | Agreeable          | IS:3025 (P- 8) 2023             |
| 5  | Turbidity,NTU  | 1.30  | 1.50         | 1   | 5                  | IS:3025 (P-10) 2023             |
| 6  | Total Dissolved Solids,mg/l                          | 1190.0  | 190.0        | 500   | 2000               | IS:3025 (P-16) 2023             |
| 7  | Aluminium (as Al)                                    | <0.005  | <0.005       | 0.03  | 0.2                | IS:3025 (P-55) 2022             |
| 8  | Ammonia (as total Ammonia -N),mg/l                   | <0.1  | <0.1         | 0.5   | 0.5                | IS:3025 (P-34)1 Sec 1 2023      |
| 9  | Anionic Detergents (as MBAS),mg/l                    | <0.1  | <0.1         | 0.2   | 1.0                | IS:3025 (P-68) 2023             |
| 10   | Barium (as Ba), mg/l                                 | <0.005  | <0.005       | 0.7   | 0.7                | IS:3025(P-65) 2022              |
| 11   | Boron (as B), mg/l                                   | <0.1  | <0.1         | 0.5   | 2.4                | IS:3025 (Part-57) 2021          |
| 12   | Calcium (as Ca),mg/l                                 | 16.03   | 22.40        | 75  | 200                | IS:3025 (P-40) 2021             |
| 13   | Chloramines as C12                                   | <0.1  | <0.1         | 4   | 4                  | Clause 6 of IS 3025 (P-26) 2021 |
| 14   | Chloride as Cl (mg/l)                                | 330.00  | 37.00        | 250   | 1000               | IS:3025 (P-32)1988 RA 2019      |
| 15   | Copper (as Cu),mg/l                                  | <0.0005   | <0.0005      | 0.05  | 1.5                | IS:3025 (P-65) 2022             |
| 16   | Fluoride (as F),mg/l                                 | 0.88  | 0.60         | 1   | 1.5                | IS:3025 (P-60) Sec 2022         |
| 17   | Residual, Free Chlorine,mg/l                         | <0.1  | <0.1         | 0.2   | 1                  | IS:3025 (P-26) 2021             |
| 18   | Iron (as Fe),mg/l                                    | <0.005  | <0.005       | 1.0   | 1.0                | IS:3025 (Part-65) 2022          |
| 19   | Magnesium (as Mg)mg/l                                | 92.30   | 10.20        | 30  | 100                | IS:3025 (P-46)1 2023            |
| 20   | Manganese (as Mn),mg/l                               | <0.001  | <0.001       | 0.1   | 0.3                | IS:3025 (P-65) 2022             |
| 21   | Mineral Oil,mg/l                                     | <0.5  | <0.5         | 1.0   | 1.0                | IS:3025 (P-39) 2021             |
| 22   | Nitrates (as NO <sub>3</sub> ),mg/l                  | 39.60   | 12.80        | 45  | 45                 | IS:3025 (P-34) 1988 RA 2019     |
| 23   | Phenolics (as C <sub>6</sub> H <sub>5</sub> OH),mg/l | <0.001  | <0.001       | 0.001                                       | 0.002              | IS:3025 (P-43) Sec 1 2023       |
| 24   | Selenium (as Se),mg/l                                | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025(P-65) 2022              |
| 25   | Silver (as Ag), mg/l                                 | <0.005  | <0.005       | 0.1   | 0.1                | IS:3025(P-65) 2022              |
| 26   | Sulphate (as SO <sub>4</sub> ),mg/l                  | 70.00   | 21.00        | 200   | 400                | IS:3025 (P-24) Sec 1 2022       |
| 27   | Sulphide (as H <sub>2</sub> S) , mg/l                | <0.01   | <0.01        | 0.05  | 0.05               | IS:3025 (P-29) 2022             |
| 28   | Total Alkalinity (as CaCO <sub>3</sub> ) mg/l        | 600.0   | 120.0        | 200   | 600                | IS:3025 (P-23):2023             |
| 29   | Total Hardness (as CaCO <sub>3</sub> ),mg/l          | 780.0   | 98.0         | 200   | 600                | IS:3025 (P-21):2009 RA 2023     |
| 30   | Zinc (as Zn),mg/l                                    | <0.005  | <0.005       | 5   | 15                 | IS:3025 (P-65) 2022             |
| 31   | Cadmium (as Cd),mg/l                                 | <0.0005   | <0.0005      | 0.003                                       | 0.003              | IS:3025 (P-65) 2022             |
| 32   | Cyanide (as CN),mg/l                                 | <0.01   | <0.01        | 0.05  | 0.05               | IS:3025 (P-27)Sec 1 2021        |
| 33   | Lead (as Pb),mg/l                                    | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025 (P-65) 2022             |
| 34   | Mercury (as Hg),mg/l                                 | <0.0005   | <0.0005      | 0.001                                       | 0.001              | IS:3025 (P-65) 2022             |
| 35   | Molybdenum (as Mo), mg/l                             | <0.0005   | <0.0005      | 0.07  | 0.07               | IS:3025 (P-65) 2022             |
| 36   | Nickel (as Ni),mg/l                                  | <0.01   | <0.01        | 0.02  | 0.02               | IS:3025 (P-65) 2022             |
| 37   | Arsenic (as As),mg/l                                 | <0.0005   | <0.0005      | 0.01  | 0.01               | IS:3025 (P-65) 2022             |
| 38   | Total Chromium (as Cr),mg/l                          | <0.001  | <0.001       | 0.05  | 0.05               | IS:3025 (P-65) 2022             |
| 39   | Escherichia coli/100ml                               | Not Detected  | Not Detected | Shall not be detectable in any 100ml Sample |                    | IS:15185:2016 RA 2021           |
| 40   | Total Coliform /100ml)                               | Not Detected  | Not Detected |   |                    | IS:15185:2016 RA 2021           |
| 41   | Electrical Conductivity (µmhos/cm)                   | 2100.0  | 350.0        | --  | --                 | IS 3025 (P-14) 2013 RA 2023     |

"END OF REPORT"

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## TEST REPORT

Table No. 19

### 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<br>(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 :           | 14.03.2026   |
| Date of Sample Receipt :       | 16.03.2026   |
| Report No :                    | N000126033   |
| Issue date :                   | 02.04.2026   |

#### STACK DETAILS

|    |   |                               |
|----|---|-------------------------------|
| 1  | Fuel Used   | Diesel                        |
| 2  | Ambient Temperature (°C)  | 33                            |
| 3  | Stack Temperature (°C)  | 148                           |
| 4  | Velocity (m/s)  | 7.34                          |
| 5  | Stack diameter (M)  | 0.15                          |
| 6  | Quantity of flue Gas Discharged into atmosphere (Nm <sup>3</sup> /hr) | 311                           |
| 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 | 0.107   | <0.2     |
| 2     | CO                 | g/Kw-hr | 0.106   | <3.5     |
| 3     | NOx +HC            | g/Kw-hr | 0.178   | <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. 20

### 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<br>(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 :           | 14.03.2026   |
| Date of Sample Receipt :       | 16.03.2026   |
| Report No :                    | N000226033   |
| Issue date :                   | 02.04.2026   |

#### STACK DETAILS

|    |   |                               |
|----|---|-------------------------------|
| 1  | Fuel Used   | Diesel                        |
| 2  | Ambient Temperature (°C)  | 28                            |
| 3  | Stack Temperature (°C)  | 152                           |
| 4  | Velocity (m/s)  | 6.62                          |
| 5  | Stack diameter (M)  | 0.15                          |
| 6  | Quantity of flue Gas Discharged into atmosphere (Nm <sup>3</sup> /hr) | 278                           |
| 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 | 0.122   | <0.2     |
| 2     | CO                 | g/Kw-hr | 0.125   | <3.5     |
| 3     | NOx +HC            | g/Kw-hr | 0.250   | <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. 21

### RESULTS OF RESIPARBLE AIR-BORNE DUST SURVEY

Name of the Client : 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)  
Issue Date : 02.04.2026

#### PERSONAL SAMPLER

| SL. NO                  | DATE OF SAMPLE COLLECTION | FILTER PAPER CODE | REPORT NO   | SAMPLE LOCATION / CATEGORY      | NAME OF THE PERSON | DURATION OF SAMPLING |       |           | VOLUME OF AIR (Lts) | DUST CONCENTRATION<br>mg/m <sup>3</sup><br>RPM | *PERMISSIBLE LIMIT<br>mg/m <sup>3</sup> |
|-------------------------|---------------------------|-------------------|-------------|---------------------------------|--------------------|----------------------|-------|-----------|---------------------|--|---|
|                         |                           |                   |             |                                 |                    | FROM                 | TO    | TOTAL HRS |                     |  |   |
| <b>PERSONAL SAMPLER</b> |                           |                   |             |                                 |                    |                      |       |           |                     |  |   |
| 1                       | 13.03.2026                | A-253             | FS000126033 | Excavator (Tata Hitachi 200 Lc) | Durgappa           | 8:40                 | 16:30 | 7:50      | 693.3               | 0.72   | 1                                       |
| 2                       | 13.03.2026                | A-254             | FS000226033 | Truck Driver (KA 35 D- 7494)    | Mustafa            | 8:45                 | 16:45 | 8:00      | 715.2               | 0.53   | 1                                       |
| <b>STATIC SAMPLER</b>   |                           |                   |             |                                 |                    |                      |       |           |                     |  |   |
| 3                       | 13.03.2026                | A-255             | FS000326033 | Haulage Road                    | Static             | 8:50                 | 16:50 | 8:00      | 796.8               | 0.85   | 1                                       |
| 4                       | 13.03.2026                | A-256             | FS000426033 | Waste Dump                      | Static             | 8:55                 | 16:55 | 8:00      | 940.8               | 0.80   | 1                                       |

\*Note: Free Silica Analysis report for Ramgad Manganese & Iron Ore mine show less than 5% Free silica content and hence the permissible limit for dust concentration shall be 1 mg/m<sup>3</sup> (Ref : DGMS (Tech) Circular (MAMID) /08 Dated 29.04.2020)

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## TEST REPORT

Table No. 22

### FREE SILICA ANALYSIS REPORT

| Name of the Client                                      |                           | : 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<br>(Unit of Mineral Engineering Services LLP) |                             |                         |                        |
| Issue Date  |                           | : 02.04.2026   |                             |                         |                        |
| SL.NO   | DATE OF SAMPLE COLLECTION | LOCATION / CATEGORY  | Name of the person / Static | Free Silica Content (%) | Free Silica Limits (%) |
| <b><u>PERSONAL SAMPLER</u></b>                          |                           |  |                             |                         |                        |
| 1   | 13.03.2026                | Excavator<br>(Tata Hitachi 200 Lc)                                       | Durgappa                    | ND                      | 5                      |
| 2   | 13.03.2026                | Truck Driver<br>(KA 35 D- 7494)  | Mustafa                     | ND                      | 5                      |
| <b><u>STATIC SAMPLER</u></b>                            |                           |  |                             |                         |                        |
| 3   | 13.03.2026                | Haulage Road   | Static                      | ND                      | 5                      |
| 4   | 13.03.2026                | Waste Dump   | Static                      | ND                      | 5                      |
| <b>Note: ND-Not Detected, Detection Level : 0.0005%</b> |                           |  |                             |                         |                        |

  
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## TEST REPORT

Table No. 23

|                                  |  |             |                |            |            |
|----------------------------------|--|-------------|----------------|------------|------------|
| <b>Name of the Client</b>        | : M/s. Sandur Manganese & Iron Ores Limited                              |             |                |            |            |
| <b>Name of the Project</b>       | : Mining Lease No. 2679  |             |                |            |            |
| <b>Location</b>                  | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka                  |             |                |            |            |
| <b>Sample Collected by</b>       | : Environmental Laboratory<br>(Unit of Mineral Engineering Services LLP) |             |                |            |            |
| <b>Date of sample collection</b> | : 14.03.2026   |             |                |            |            |
| <b>Date of sample receipt</b>    | : 16.03.2026   |             |                |            |            |
| <b>Issue Date</b>                | : 02.04.2026   |             |                |            |            |
| <b>Report No</b>                 |  | M000526033  | M000626033     | M000726033 |            |
| <b>SL. No.</b>                   | <b>Sample Code</b>   | <b>S1</b>   | <b>S2</b>      | <b>S3</b>  |            |
|                                  | <b>Parameters</b>  | <b>Unit</b> | <b>Results</b> |            |            |
| <b>Physical Properties</b>       |  |             |                |            |            |
| 1                                | Colour   | —           | Red soil       | Red soil   | Red Soil   |
| 2                                | Textural class   | —           | Clay Loam      | Clay Loam  | Sandy Loam |
| Size Distribution                |  |             |                |            |            |
| 3                                | Sand   | %           | 34.21          | 33.25      | 39.21      |
|                                  | Clay   | %           | 30.35          | 28.23      | 32.12      |
|                                  | Silt   | %           | 35.44          | 38.52      | 28.67      |
| 4                                | Moisture Content   | %           | 6.15           | 6.96       | 6.72       |
| 5                                | Bulk Density   | gm/cc       | 1.88           | 1.82       | 1.96       |
| 6                                | Water holding capacity   | %           | 30.22          | 28.96      | 44.25      |
| 7                                | pH   | —           | 6.12           | 7.41       | 7.55       |
| 8                                | EC   | m.mohs/cm   | 0.272          | 0.121      | 0.677      |
| <b>Chemical Properties</b>       |  |             |                |            |            |
| 9                                | Organic Carbon   | %           | 0.33           | 0.81       | 0.82       |
| 10                               | Nitrogen as N  | Kg/Ha       | 186            | 163        | 141        |
| 11                               | Phosphorous as P   | Kg/Ha       | 7.55           | 7.68       | 38         |
| 12                               | Potassium as K <sub>2</sub> O  | Kg/Ha       | 111            | 118        | 115        |
| 13                               | Sodium as Na   | mg/kg       | 30             | 52         | 30         |
| 14                               | Chloride as Cl   | mg/kg       | 136            | 136        | 36         |
| 15                               | Sulphate as SO <sub>4</sub>  | mg/kg       | 120            | 33         | 30         |
| <b>Sample Locations :</b>        |  |             |                |            |            |
| S1 - Core Zone (ML Area)         |  |             |                |            |            |
| S2 - Ramghad agriculture land    |  |             |                |            |            |
| S3 - Dharmapura agriculture land |  |             |                |            |            |

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## TEST REPORT

Table No. 24

|  |  |             |                |            |           |
|--|--|-------------|----------------|------------|-----------|
| <b>Name of the Client</b>              | : M/s. Sandur Manganese & Iron Ores Limited                              |             |                |            |           |
| <b>Name of the Project</b>             | : Mining Lease No. 2679  |             |                |            |           |
| <b>Location</b>                        | : Ramgad village, Sandur Taluk, Ballari Dist, Karnataka                  |             |                |            |           |
| <b>Sample Collected by</b>             | : Environmental Laboratory<br>(Unit of Mineral Engineering Services LLP) |             |                |            |           |
| <b>Date of sample collection</b>       | : 14.03.2026   |             |                |            |           |
| <b>Date of sample receipt</b>          | : 16.03.2026   |             |                |            |           |
| <b>Issue Date</b>                      | : 02.04.2026   |             |                |            |           |
| <b>Report No</b>                       |  | M000826033  | M001126033     | M001226033 |           |
| <b>SL. No.</b>                         | <b>Sample Code</b>   | <b>S4</b>   | <b>S5</b>      | <b>S6</b>  |           |
|  | <b>Parameters</b>  | <b>Unit</b> | <b>Results</b> |            |           |
| <b>Physical Properties</b>             |  |             |                |            |           |
| 1                                      | Colour   | --          | Red Soil       | Red soil   | Red Soil  |
| 2                                      | Textural class   | --          | Sandy Loam     | Clay Loam  | Clay Loam |
| 3                                      | Size Distribution  |             |                |            |           |
|  | Sand   | %           | 38.64          | 38.44      | 32.45     |
|  | Clay   | %           | 28.44          | 31.33      | 28.12     |
|  | Silt   | %           | 32.92          | 30.23      | 39.43     |
| 4                                      | Moisture Content   | %           | 7.36           | 6.95       | 7.66      |
| 5                                      | Bulk Density   | gm/cc       | 1.52           | 7.82       | 1.78      |
| 6                                      | Water holding capacity   | %           | 42.11          | 40.88      | 24.61     |
| 7                                      | pH   | --          | 7.62           | 7.16       | 7.69      |
| 8                                      | EC   | m.mohs/cm   | 0.338          | 0.578      | 0.235     |
| <b>Chemical Properties</b>             |  |             |                |            |           |
| 9                                      | Organic Carbon   | %           | 0.62           | 0.50       | 0.31      |
| 10                                     | Nitrogen as N  | Kg/Ha       | 132            | 138        | 136       |
| 11                                     | Phosphorous as P   | Kg/Ha       | 40             | 42         | 7.66      |
| 12                                     | Potassium as K <sub>2</sub> O  | Kg/Ha       | 118            | 113        | 112       |
| 13                                     | Sodium as Na   | mg/kg       | 26             | 31         | 41        |
| 14                                     | Chloride as Cl   | mg/kg       | 30             | 32         | 147       |
| 15                                     | Sulphate as SO <sub>4</sub>  | mg/kg       | 33             | 36         | 28        |
| <b>Sample Locations :</b>              |  |             |                |            |           |
| S4 - Garaga agriculture land           |  |             |                |            |           |
| S5 - Yeshwanthnagar agriculture land   |  |             |                |            |           |
| S6 - Subbarayanahalli agriculture land |  |             |                |            |           |

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