

The Sandur Manganese & Iron Ores Limited

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

REGISTERED OFFICE

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



CORPORATE OFFICE

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

No: SMIORE/MN/080626/2679/163

08 June 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 May 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 SUMS Techno labs Private Limited as per stipulated environmental parameters in Environmental Clearance and Consent for Operation-Expansion for the month of May 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

Parthipan P
Sr. General Manager & Agent

Encl: Monitoring Reports





National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SUMS TECHNO LABS PRIVATE LIMITED

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

PLOT NO. 15-DP2, KIADB, SANKALAPURA INDUSTRIAL AREA, BALLARI ROAD, HOSPET, BALLARI,
KARNATAKA, INDIA

in the field of

TESTING

Certificate Number: TC-13543

Issue Date: 24/04/2026

Valid Until: 23/04/2030

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

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

Name of Legal Entity: SUMS TECHNO LABS PRIVATE LIMITED

Signed for and on behalf of NABL



Srikanth R
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



फा.सं.एलबी-2021/7/99/इंस्टलैब-एचओ-सीपीसीबी-एचओ /प्राइवेट / 1023

30 अगस्त 2024

मान्यता पत्र

सेवा में,

प्रयोगशाला प्रमुख,
मैसर्स सम्स टेक्नो लैब्स प्राइवेट लिमिटेड,
#प्लॉट नंबर 15 डीपी2, संकलापुरा औद्योगिक क्षेत्र,
बल्लारी मेन रोड, होसपेट-583201, कर्नाटक

विषय: पर्यावरण(संरक्षण) अधिनियम, 1986 के अंतर्गत पर्यावरणीय प्रयोगशाला के रूप में मैसर्स सम्स टेक्नो लैब्स प्राइवेट लिमिटेड, # प्लॉट नंबर 15 डीपी2, संकलापुरा औद्योगिक क्षेत्र, बल्लारी मेन रोड, होसपेट-583201, कर्नाटक की मान्यता के बारे में।

महोदय,

केन्द्रीय 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 18/05/2024 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। तत्पश्चात, मैसर्स सम्स टेक्नो लैब्स प्राइवेट लिमिटेड, # प्लॉट नंबर 15 डीपी2, संकलापुरा औद्योगिक क्षेत्र, बल्लारी मेन रोड, होसपेट, होसपेट-583201, कर्नाटक को भारत की राजपत्र अधिसूचना में प्रयोगशाला की अनिवार्य प्रत्यायन/प्रमाणन की वर्तमान अपेक्षा को ध्यान में रखते हुए दिनांक 25/08/2027 (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. के प्रभाकर रेड्डी
2. श्री. ई.रघुनाथ रेड्डी

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 बहिःसाव धारा का विसर्जन मापन, गंध, लवणता और निपटान योग्य ठोस।
- ख. **अकार्बनिक (सामान्य और गैर-धात्विक):** अम्लता, क्षारीयता, अमोनिकल नाइट्रोजन, क्लोराइड, क्लोरीन अवशिष्ट, विलीन ऑक्सीजन, फ्लोराइड, कुल कठोरता, कुल केजेल्डहल नाइट्रोजन (टीकेएन), नाइट्राइट नाइट्रोजन, नाइट्रेट नाइट्रोजन, फॉस्फेट, सल्फेट, सिलिका, सल्फाइड और सल्फाइट।
- ग. **अकार्बनिक (सूक्ष्म मात्रिक धातु):** बोरॉन, कैडमियम, कैल्शियम, टोटल क्रोमियम, क्रोमियम हेक्सावैलेंट, तांबा, लोहा, सीसा, मैग्नीशियम, पारा, निकल, पोटेशियम, सोडियम, सोडियम अवशोषण अनुपात (एसएआर), जिंक, आर्सेनिक, एल्युमीनियम, मैंगनीज और सिल्वर।
- घ. **ऑर्गेनिक्स (सामान्य) और ट्रेस ऑर्गेनिक्स:** बायोकेमिकल ऑक्सीजन डिमांड (बीओडी), रासायनिक ऑक्सीजन डिमांड (सीओडी), तेल और ग्रीस, फेनोलिक यौगिक, कीटनाशक (प्रत्येक) (ऑर्गेनो-क्लोरीन और ऑर्गेनो नाइट्रोजन-फॉस्फोरस), पॉली-क्लोरीनेटेड बाइफेनाइल (पीसीबी) (प्रत्येक), पॉलीन्यूक्लियर एरोमैटिक हाइड्रोकार्बन (पीएएच), सर्फेक्टेंट और टैनिन & लिग्निन।
- ङ. **सूक्ष्म जीवविज्ञान परीक्षण:** टोटल कोलीफॉर्म, फीकल कोलीफॉर्म, ई. कोली, फीकल 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 ज़ेबरा मछली (आयाम रहित विषाक्तता परीक्षण) का उपयोग करके विषाक्तता कारक का मापन।

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, New Delhi - 110032

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

30th August 2024

Recognition Letter

To,
The Head of Laboratory,
M/s SUMS Techno Labs Private Limited,
Plot No. 15 DP2, Sankalapura Industrial Area,
Ballari Main Road, Hospet-583201, Karnataka.

Subject: Recognition of M/s SUMS Techno Labs Private Limited, # Plot No. 15 DP2, Sankalapura Industrial Area, Ballari Main Road, Hospet-583201, Karnataka as Environmental laboratory under the Environmental (Protection) Act- 1986- reg.

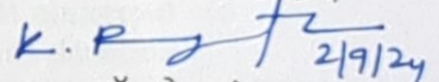
Sir,

With reference to your application dated 18/05/2024 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 SUMS Techno Labs Private Limited, # Plot No. 15 DP2, Sankalapura Industrial Area, Ballari Main Road, Hospet-583201, Karnataka** shall be notified considering the current requirement of mandatory accreditation / certifications of the laboratory with a validity up to **25/08/2027 (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. K Prabhakara Reddy
 2. Sh. E Raghunatha Reddy
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, Odour, Salinity and Settleable Solids.
 - 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, Silica, Sulphide and Sulphite.
 - 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, Manganese and Silver.
 - 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 factor using Zebra fish (dimensionless toxicity test).

Contd.

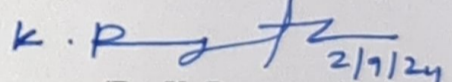
- छ. मृदा/आपंक/तलछट और ठोस अपशिष्ट: बोरॉन, कटियन एक्सचेंज क्षमता (सीईसी), विद्युत चालकता, नाइट्रोजन (उपलब्ध), कार्बनिक कार्बन/पदार्थ (रासायनिक विधि), पीएच, फास्फोरस (उपलब्ध), फॉस्फेट (ऑर्थो), फॉस्फेट (कुल), पोटेशियम, मृदा के अर्क में एसएआर, सोडियम, मृदा की नमी, टीकेएन, कैलोरी मान, बाइकार्बोनेट, कैल्शियम, कैल्शियम कार्बोनेट, क्लोराइडजिप्सम आवश्यकता, भारी धातु, मैग्नीशियम, पोटेश (उपलब्ध), सल्फेट और जल धारण क्षमता।
- ज. परिवेशी वायु/पलायक उत्सर्जन: नाइट्रोजन डाइऑक्साइड (एनओ₂), सल्फर डाइऑक्साइड (एसओ₂), कुल निलंबित विविक्त कण, श्वसन योग्य निलंबित कण पदार्थ (पीएम₁₀), अमोनिया, कार्बन मोनोऑक्साइड, सीसा, ओजोन और पीएम_{2.5}।
- झ. चिमनी गैस/स्रोत उत्सर्जन: पार्टिकुलेट मैटर, सल्फर डाइऑक्साइड, वेग और प्रवाह, कार्बन डाइऑक्साइड, कार्बन मोनोऑक्साइड, तापमान, ऑक्सीजन, नाइट्रोजन के ऑक्साइड, अमोनिया, क्लोरीन, फ्लोराइड (पार्टिकुलेट), फ्लोराइड (गैसीय), हाइड्रोजन सल्फाइड और कार्बन डाइसल्फाइड।
- ञ. रव (शोर) स्तर: शोर स्तर माप (20 से 140 डीबीए) और परिवेश रव & स्रोत विशिष्ट रव।
- ट. मौसम संबंधी: परिवेश का तापमान, हवा की दिशा, हवा की गति, सापेक्ष आर्द्रता और वर्षा।
4. प्रयोगशाला और विश्लेषकों की क्षमता का पता लगाने के लिए प्रयोगशाला को के.प्र.नि.बोर्ड द्वारा आयोजित विश्लेषणात्मक गुणवत्ता नियंत्रण एक्जूसी (अभ्यास में अनिवार्य रूप से भाग लेना होगा। प्रयोगशाला किए गए नमूना विश्लेषण पर के.प्र.नि.बोर्ड को तिमाही प्रगति रिपोर्ट प्रस्तुत करेगी।
5. अधिसूचना के अनुसार, एक संयुक्त दल द्वारा मान्यता प्राप्त पर्यावरण प्रयोगशाला का औचक निरीक्षण/आवधिक निगरानी उस के उचित कामकाज, व्यवस्थित प्रचालन और प्रयोगशाला में तैयार किए गए आंकड़ों की विश्वसनीयता का निर्धारण करने के लिए की जाएगी।
6. प्रयोगशाला के पास नियमानुसार ISO/IEC: 17025)2017 (और IS/ ISO: 45001 का अपेक्षित प्रत्यायन और प्रमाण पत्र होना चाहिए। यह मान्यता यथा लागू प्रत्यायन और नवीनीकरण के अधीन है और किसी भी निबंधन और शर्तों के गंभीर गैर-अनुपालन के मामले में, प्रयोगशाला को न्यूनतम दो साल की अवधि के लिए ब्लैकलिस्ट किया जा सकता है और सरकार की ओर से अनधिकृत तरीके से कार्य करने के लिए, यथा लागू सिविल/आपराधिक कार्यवाही शुरू की जा सकती है।
7. मैसर्स सम्स टेक्नो लैब्स प्राइवेट लिमिटेड, होसपेट, 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,

 (डॉ. के. रंगनाथन)
 वैज्ञानिक-ई एवं प्रभागप्रमुख
 उपकरणीय प्रयोगशाला

डॉ. के. रंगनाथन / Dr. K. Ranganathan
 वैज्ञानिक 'ई' / Scientist 'E'
 प्रभागी जल एवं उपकरणीय प्रयोगशाला
 Div. Head-Water & Instrumentation Laboratory
 केंद्रीय प्रदूषण नियंत्रण बोर्ड
 Central Pollution Control Board
 पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
 (Min. Environment, Forest & Climate Change, Govt. of India)
 परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
 Parivesh Bhawan, East Arjun Nagar, Delhi-110032

- g) **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, Bicarbonate, Calcium, Calcium Carbonate, Chloride, Gypsum Requirement, Heavy Metal, Magnesium, Potash(Available), Sulphate and Water Holding Capacity.
- h) **Ambient Air/ Fugitive Emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter (PM₁₀), Ammonia, Carbon monoxide, Lead, Ozone and PM_{2.5}.
- i) **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Ammonia, Chlorine, Fluoride(Particulate), Fluoride(Gaseous), Hydrogen Sulphide and Carbon Disulphide.
- j) **Noise Level:** Noise level measurement (20 to 140 dba) and Ambient Noise & Source Specific Noise.
- k) **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity 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 SUMS Techno Labs Private Limited, Hospet, 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,


2/7/24

(Dr. K. Ranganathan)

Scientist-E & Divisional Head
Instrumentation laboratory

डॉ. के. रंगनाथन / Dr. K. Ranganathan
वैज्ञानिक 'ई' / Scientist 'E'
प्रभारी जल एवं उपकरणिय प्रयोगशाला
Div. Head-Water & Instrumentation Laboratory
केंद्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
(Mo Environment, Forest & Climate Change, Govt. of India)
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

ENVIRONMENTAL MONITORING REPORT

(MAY-2026)

Ramghad Manganese & Iron Ore Mine

(Mining Lease .No.2679)

of

**The Sandur Manganese & Iron Ores
Limited**

**Ramghad Village, Sandur Taluk, Ballari Dist,
Karnataka**

Prepared By



ISO 9001: 2015
ISO 14001:2015
ISO 45001:2018

SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No.TC-13543

MoEF Recognized Laboratory

#Plot No.15-DP2, KIADB, Sankalapura Industrial Area, Near Water Tank, Bellary
Main Road, Hospet-583201, Vijayanagara District Karnataka.
Tel/Fax No. 08394-265084, Cell-8884494261/250/239.
email :technolabs@sums.org.in, sums.hpt@gmail.com, website : www.sums.org.in



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No. TC-13543

Recognized by MoEF



TC-13543

TEST REPORT

AMBIENT AIR QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679)
The Sandur Manganese & Iron Ores Limited,
Ramghad Village, Sandur Taluk,
Ballari District, Karnataka.
2. Name of the Location : A1 - ML Area (Core Zone)
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
4. Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/1, SUMSTLPL/FPS/CEIS/2
5. Sampling Method : STLPL/SOP/SP/01
6. ULR Number : TC135432600000610F
7. Test Report Number : STLPL/SMIORL/AA/2026/05/610
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Carbon Monoxide [mg/m ³]					
					IS:5182 (P-23)	SUMSTLPL/SOP /AA/04	IS:5182 (P-2)	IS:5182 (P-6)	SUMSTLPL/ SOP/AA/10					
					STD	100	STD	60	STD	80	STD	80	STD	04
					Result		Result		Result		Result		Result	
1 st	07.05.2026	08.05.2026	08.05.2026	9391/1	69	27	13.5	15.9	0.26					
	08.05.2026	09.05.2026	09.05.2026	9391/11	60	24	15.8	17.5	0.24					
II nd	13.05.2026	14.05.2026	14.05.2026	9391/21	56	20	11.6	14.2	0.25					
	14.05.2026	15.05.2026	15.05.2026	9391/31	58	22	15.3	18.5	0.30					
III rd	18.05.2026	19.05.2026	19.05.2026	9391/41	64	24	14.3	16.7	0.34					
	19.05.2026	20.05.2026	20.05.2026	9391/51	62	23	10.9	14.9	0.35					
IV th	22.05.2026	23.05.2026	23.05.2026	9391/61	66	25	13.9	15.6	0.26					
	23.05.2026	24.05.2026	24.05.2026	9391/71	68	26	15.7	17.3	0.29					
Avg.24 Hrs.					63	24	13.9	16.3	0.29					

Anand
Analysed By

Anand N
Environmental Engineer



Shivashankaraiah H M
Authorised Signatory
Shivashankaraiah H M
Technical Manager



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

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TC-13543

TEST REPORT

AMBIENT AIR QUALITY

- 1 Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
- 2 Name of the Location : A2 - Core Zone (Myadara Banda Block)
- 3 Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
- 4 Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/3, SUMSTLPL/FPS/CEIS/4
- 5 Sampling Method : STLPL/SOP/SP/01
- 6 ULR Number : TC135432600000610F
- 7 Test Report Number : STLPL/SMIORL/AA/2026/05/610
- 8 Discipline : Chemical
- 9 Group : Atmospheric Pollution
- 10 Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]		Carbon Monoxide [mg/m ³]	
					IS:5182 (P-23)		SUMSTLPL/SOP /AA/04		IS:5182 (P-2)		IS:5182 (P-6)		SUMSTLPL/SOP/AA/10	
					STD	100	STD	60	STD	80	STD	80	STD	04
					Result		Result		Result		Result		Result	
1 st	07.05.2026	08.05.2026	08.05.2026	9391/2	66	25	13.9	15.2	0.32					
	08.05.2026	09.05.2026	09.05.2026	9391/12	58	23	15.2	17.6	0.24					
2 nd	13.05.2026	14.05.2026	14.05.2026	9391/22	60	24	12.7	14.2	0.30					
	14.05.2026	15.05.2026	15.05.2026	9391/32	55	18	13.5	15.1	0.26					
3 rd	18.05.2026	19.05.2026	19.05.2026	9391/42	59	20	11.1	13.5	0.22					
	19.05.2026	20.05.2026	20.05.2026	9391/52	62	24	13.6	15.2	0.24					
4 th	22.05.2026	23.05.2026	23.05.2026	9391/62	57	21	14.2	16.8	0.19					
	23.05.2026	24.05.2026	24.05.2026	9391/72	60	24	15.4	17.2	0.26					
Avg.24 Hrs.					60	22	13.7	15.6	0.25					

Anand

Anand N
Environmental Engineer

Environmental Engineer



Shivashankaraiah H M

Shivashankaraiah H M
Technical Manager



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

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TEST REPORT AMBIENT AIR QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Location : A3 - Core Zone (Governor Point)
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
4. Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/5, SUMSTLPL/FPS/CEIS/6
5. Sampling Method : STLPL/SOP/SP/01
6. ULR Number : TC135432600000610F
7. Test Report Number : STLPL/SMIURL/AA/2026/05/610
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]		Carbon Monoxide [mg/m ³]	
					IS:5182 (P-23)		SUMSTLPL/SOP /AA/04		IS:5182 (P-2)		IS:5182 (P-6)		SUMSTLPL/ SOP/AA/10	
					STD	100	STD	60	STD	80	STD	80	STD	04
					Result		Result		Result		Result		Result	
1 st	07.05.2026	08.05.2026	08.05.2026	9391/3	65	24	9.9	11.5	0.38					
	08.05.2026	09.05.2026	09.05.2026	9391/13	52	19	11.3	13.9	0.32					
2 nd	13.05.2026	14.05.2026	14.05.2026	9391/23	66	25	10.2	12.4	0.34					
	14.05.2026	15.05.2026	15.05.2026	9391/33	58	22	13.5	15.7	0.33					
3 rd	18.05.2026	19.05.2026	19.05.2026	9391/43	59	23	8.8	10.2	0.35					
	19.05.2026	20.05.2026	20.05.2026	9391/53	48	17	12.1	14.3	0.30					
4 th	22.05.2026	23.05.2026	23.05.2026	9391/63	53	22	14.8	16.1	0.37					
	23.05.2026	24.05.2026	24.05.2026	9391/73	51	21	15.2	17.3	0.36					
Avg.24 Hrs.					57	22	12.0	13.9	0.34					

Anand
Analysed By
Anand N
Environmental Engineer

S. A. Kar
Authorised Signatory
Shivashankaraiah H M
Technical Manager





SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

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TEST REPORT

AMBIENT AIR QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Location : A4 - Core Zone (Neerlabi)
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
4. Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/7, SUMSTLPL/FPS/CEIS/8
5. Sampling Method : STLPL/SOP/SP/01
6. ULR Number : TC135432600000610F
7. Test Report Number : STLPL/SMIORL/AA/2026/05/610
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Carbon Monoxide [mg/m ³]
					IS:5182 (P-23)	SUMSTLPL/SOP/ AA/04	IS:5182 (P-2)	IS:5182 (P-6)	SUMSTLPL/ SOP/AA/10
					STD 100	STD 60	STD 80	STD 80	STD 04
					Result	Result	Result	Result	Result
1st	07.05.2026	08.05.2026	08.05.2026	9391/4	60	30	14.8	16.5	0.32
	08.05.2026	09.05.2026	09.05.2026	9391/14	54	24	16.9	18.9	0.26
2nd	13.05.2026	14.05.2026	14.05.2026	9391/24	56	26	15.7	17.4	0.28
	14.05.2026	15.05.2026	15.05.2026	9391/34	58	28	17.2	19.2	0.24
3rd	18.05.2026	19.05.2026	19.05.2026	9391/44	55	24	16.9	19.5	0.21
	19.05.2026	20.05.2026	20.05.2026	9391/54	57	27	18.4	21.1	0.30
4th	22.05.2026	23.05.2026	23.05.2026	9391/64	52	25	17.6	20.6	0.26
	23.05.2026	24.05.2026	24.05.2026	9391/74	59	29	18.2	21.9	0.22
Avg. 24 Hrs.					56	27	17.0	19.4	0.30

Anand

Analysed By
Anand N

Environmental Engineer

Shivashankaraiah H M

Authorised Signatory
Shivashankaraiah H M
Technical Manager





SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No. TC-13543

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TC-13543

TEST REPORT AMBIENT AIR QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Location : A5 - Ramghad village
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
4. Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/9, SUMSTLPL/FPS/CEIS/10
5. Sampling Method : STLPL/SOP/SP/01
6. ULR Number : TC135432600000610F
7. Test Report Number : STLPL/SMIORL/AA/2026/05/610
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Carbon Monoxide [mg/m ³]
					IS:5182 (P-23)	SUMSTLPL/SOP/ AA/04	IS:5182 (P-2)	IS:5182 (P-6)	SUMSTLPL/ SOP/AA/10
					STD 100	STD 60	STD 80	STD 80	STD 04
					Result	Result	Result	Result	Result
1 st	07.05.2026	08.05.2026	08.05.2026	9391/5	56	25	12.6	15.1	0.30
	08.05.2026	09.05.2026	09.05.2026	9391/15	52	22	14.9	17.6	0.28
1 nd	13.05.2026	14.05.2026	14.05.2026	9391/25	50	20	16.1	18.2	0.22
	14.05.2026	15.05.2026	15.05.2026	9391/35	51	23	15.9	18.5	0.23
1 ¹ rd	18.05.2026	19.05.2026	19.05.2026	9391/45	53	21	14.7	17.4	0.26
	19.05.2026	20.05.2026	20.05.2026	9391/55	50	19	14.6	16.5	0.25
1 ⁴ th	22.05.2026	23.05.2026	23.05.2026	9391/65	55	24	16.4	18.2	0.27
	23.05.2026	24.05.2026	24.05.2026	9391/75	48	18	15.9	17.3	0.24
Avg. 24 Hrs.					52	22	15.1	17.4	0.26

Anand
Analysed By
Anand N
Environmental Engineer



Shivashankaraiah H M
Authorised Signatory
Shivashankaraiah H M
Technical Manager



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No. TC-13543

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TC-13543

TEST REPORT AMBIENT AIR QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Location : A6 - Dharmapura village
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
4. Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/11, SUMSTLPL/FPS/CEIS/12
5. Sampling Method : STLPL/SOP/SP/01
6. ULR Number : TC135432600000610F
7. Test Report Number : STLPL/SMIORL/AA/2026/05/610
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]		Carbon Monoxide [mg/m ³]	
					IS:5182 (P-23)		SUMSTLPL/SOP/AA/04		IS:5182 (P-2)		IS:5182 (P-6)		SUMSTLPL/SOP/AA/10	
					STD	100	STD	60	STD	80	STD	80	STD	04
					Result		Result		Result		Result		Result	
I st	07.05.2026	08.05.2026	08.05.2026	9391/6	58	24	12.4	14.6	0.26					
	08.05.2026	09.05.2026	09.05.2026	9391/16	50	21	10.2	12.8	0.24					
II nd	13.05.2026	14.05.2026	14.05.2026	9391/26	46	19	13.7	15.9	0.25					
	14.05.2026	15.05.2026	15.05.2026	9391/36	49	20	11.9	13.7	0.30					
III rd	18.05.2026	19.05.2026	19.05.2026	9391/46	44	18	15.2	17.4	0.34					
	19.05.2026	20.05.2026	20.05.2026	9391/56	54	22	14.6	16.2	0.35					
IV th	22.05.2026	23.05.2026	23.05.2026	9391/66	56	23	12.8	14.6	0.26					
	23.05.2026	24.05.2026	24.05.2026	9391/76	42	17	14.2	16.8	0.29					
Avg. 24 Hrs.					50	21	13.1	15.3	0.22					

Anand
Analysed By

Anand N
Environmental Engineer



H. N. Kar
Authorised Signatory
Shivashankaraiah H M
Technical Manager



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No. TC-13543

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TC-13543

TEST REPORT

AMBIENT AIR QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Location : A7 - Garaga village
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
4. Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/13, SUMSTLPL/FPS/CEIS/14
5. Sampling Method : STLPL/SOP/SP/01
6. ULR Number : TC135432600000610F
7. Test Report Number : STLPL/SMIORL/AA/2026/05/610
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]		Carbon Monoxide [mg/m ³]	
					IS:5182 (P-23)		SUMSTLPL/SOP/AA/04		IS:5182 (P-2)		IS:5182 (P-6)		SUMSTLPL/SOP/AA/10	
					STD	100	STD	60	STD	80	STD	80	STD	04
					Result		Result		Result		Result		Result	
I st	07.05.2026	08.05.2026	08.05.2026	9391/7	56	25	14.6	16.8	0.26					
	08.05.2026	09.05.2026	09.05.2026	9391/17	52	22	12.8	14.2	0.24					
II nd	13.05.2026	14.05.2026	14.05.2026	9391/27	50	20	11.3	14.8	0.25					
	14.05.2026	15.05.2026	15.05.2026	9391/37	55	24	13.7	16.2	0.30					
III rd	18.05.2026	19.05.2026	19.05.2026	9391/47	53	23	16.4	18.4	0.34					
	19.05.2026	20.05.2026	20.05.2026	9391/57	51	21	14.8	16.2	0.35					
IV th	22.05.2026	23.05.2026	23.05.2026	9391/67	48	19	13.1	15.7	0.26					
	23.05.2026	24.05.2026	24.05.2026	9391/77	58	26	16.4	18.2	0.29					
Avg. 24 Hrs.					53	23	14.1	16.3	0.29					

Anand N
Analysed By
Anand N

Environmental Engineer



Shivashankaraiah H M
Authorised Signatory
Shivashankaraiah H M
Technical Manager



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No. TC-13543

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TC-13543

TEST REPORT

AMBIENT AIR QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Location : A8 - Yeswanthanagar Village
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete.
4. Sampling Equipment's ID : SUMSTLPL/RDS/CEIS/15, SUMSTLPL/FPS/CEIS/16
5. Sampling Method : STLPL/SOP/SP/01
6. ULR Number : TC135432600000610F
7. Test Report Number : STLPL/SMIORL/AA/2026/05/610
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]		Carbon Monoxide [mg/m ³]	
					IS:5182 (P-23)		SUMSTLPL/SOP/AA/04		IS:5182 (P-2)		IS:5182 (P-6)		SUMSTLPL/SOP/AA/10	
					STD	100	STD	60	STD	80	STD	80	STD	04
					Result		Result		Result		Result		Result	
I st	07.05.2026	08.05.2026	08.05.2026	9391/8	58	24	10.6	12.8	0.12					
	08.05.2026	09.05.2026	09.05.2026	9391/18	50	17	13.5	15.1	0.18					
II nd	13.05.2026	14.05.2026	14.05.2026	9391/28	55	21	11.9	13.7	0.13					
	14.05.2026	15.05.2026	15.05.2026	9391/38	52	18	12.4	14.6	0.19					
III rd	18.05.2026	19.05.2026	19.05.2026	9391/48	57	23	10.5	12.8	0.20					
	19.05.2026	20.05.2026	20.05.2026	9391/58	53	19	15.3	17.4	0.24					
IV th	22.05.2026	23.05.2026	23.05.2026	9391/68	56	22	11.5	13.6	0.22					
	23.05.2026	24.05.2026	24.05.2026	9391/78	54	20	15.3	17.2	0.16					
Avg. 24 Hrs.					54	21	12.6	14.7	0.18					

Anand
 Analysed By
 Anand N
 Environmental Engineer



H. M. Kar
 Authorised Signatory
 Shivashankaraiah H M
 Technical Manager



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environment]

NABL Accredited Laboratory Cert No. TC-13543

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TC-13543

TEST REPORT

AMBIENT AIR QUALITY

- | | |
|------------------------------------|---|
| 1. Name of the Project and Address | : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka. |
| 2. Name of the Location | : A9 - Subbarayanahalli Village |
| 3. Sample Collected By | : SUMS Techno Labs Private Limited, Hosapete. |
| 4. Sampling Equipment's ID | : SUMSTLPL/RDS/CEIS/17, SUMSTLPL/FPS/CEIS/18 |
| 5. Sampling Method | : STLPL/SOP/SP/01 |
| 6. ULR Number | : TC135432600000610F |
| 7. Test Report Number | : STLPL/SMIORL/AA/2026/05/610 |
| 8. Discipline | : Chemical |
| 9. Group | : Atmospheric Pollution |
| 10. Report Issued Date | : 02.06.2026 |

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Carbon Monoxide [mg/m ³]
					IS:5182 (P-23)	SUMSTLPL/SOP/ AA/04	IS:5182 (P-2)	IS:5182 (P-6)	SUMSTLPL/ SOP/AA/10
					STD 100	STD 60	STD 80	STD 80	STD 04
Result					Result	Result	Result	Result	Result
I st	07.05.2026	08.05.2026	08.05.2026	9391/9	56	26	16.8	18.2	0.12
	08.05.2026	09.05.2026	09.05.2026	9391/19	50	21	12.6	14.8	0.10
II nd	13.05.2026	14.05.2026	14.05.2026	9391/29	46	17	15.9	17.3	0.14
	14.05.2026	15.05.2026	15.05.2026	9391/39	49	20	11.4	13.9	0.09
III rd	18.05.2026	19.05.2026	19.05.2026	9391/49	55	24	13.7	15.1	0.16
	19.05.2026	20.05.2026	20.05.2026	9391/59	47	19	14.8	16.2	0.11
IV th	22.05.2026	23.05.2026	23.05.2026	9391/69	53	22	12.6	14.8	0.13
	23.05.2026	24.05.2026	24.05.2026	9391/79	54	23	14.8	16.2	0.18
Avg. 24 Hrs.					51	22	14.1	15.8	0.13

Anand
Analysed By
Anand N
Environmental Engineer



H. M. Karaiyah
Authorised Signatory
Shivashankaraiah H M
Technical Manager

SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT

AMBIENT AIR QUALITY

- Name of the Project and Address** : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
- Name of the Location** : A10 - Siddapura village
- Sample Collected By** : SUMS Techno Labs Private Limited, Hosapete.
- Sampling Equipment's ID** : SUMSTLPL/RDS/CEIS/19, SUMSTLPL/FPS/CEIS/20
- Sampling Method** : STLPL/SOP/SP/01
- ULR Number** : TC13543260000610F
- Test Report Number** : STLPL/SMIORL/AA/2026/05/610
- Discipline** : Chemical
- Group** : Atmospheric Pollution
- Report Issued Date** : 02.06.2026

Weeks	Date of Sampling	Date of Sample receipt	Date of Analysis started	Lab Code	PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		SO ₂ [µg/m ³]		NO ₂ [µg/m ³]		Carbon Monoxide [mg/m ³]	
					IS:5182 (P-23)		SUMSTLPL/SOP/AA/04		IS:5182 (P-2)		IS:5182 (P-6)		SUMSTLPL/SOP/AA/10	
					STD	100	STD	60	STD	80	STD	80	STD	04
					Result		Result		Result		Result		Result	
I st	07.05.2026	08.05.2026	08.05.2026	9391/10	54	24	10.8	12.5	0.16					
	08.05.2026	09.05.2026	09.05.2026	9391/20	52	23	15.6	18.9	0.22					
II nd	13.05.2026	14.05.2026	14.05.2026	9391/30	49	20	12.4	14.3	0.19					
	14.05.2026	15.05.2026	15.05.2026	9391/40	50	21	14.8	17.1	0.21					
III rd	18.05.2026	19.05.2026	19.05.2026	9391/50	47	19	13.1	16.4	0.20					
	19.05.2026	20.05.2026	20.05.2026	9391/60	51	22	17.9	19.3	0.18					
IV th	22.05.2026	23.05.2026	23.05.2026	9391/70	45	17	13.5	16.4	0.14					
	23.05.2026	24.05.2026	24.05.2026	9391/80	46	18	11.9	13.7	0.12					
Avg. 24 Hrs.					49	21	13.8	16.1	0.18					

Anand
Analysed By
Anand N

Environmental Engineer



Shivashankaraiah H M
Authorised Signatory
Shivashankaraiah H M
Technical Manager

Terms and conditions:

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- Water samples will be retained 15 days from the date of issue of the test report.
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*** End of The Report***



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TEST REPORT

FUGITIVE EMISSION

(SUSPENDED PARTICULATE MATTER)

- Name of the Project and Address** : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679)
The Sandur Manganese & Iron Ores Limited,
Ramghad Village, Sandur Taluk,
Ballari District, Karnataka.
- Sample Collected By** : SUMS Techno Labs Private Limited, Hosapete
- Sampling Equipment's ID** : SUMSTLPL/RDS/CEIS/01, SUMSTLPL/RDS/CEIS/03,
SUMSTLPL/RDS/CEIS/05, SUMSTLPL/RDS/CEIS/07,
SUMSTLPL/RDS/CEIS/9
- URL Number** : TC135432600000611F
- Discipline** : Chemical
- Group** : Atmospheric pollution
- Test Report Number** : STLPL/SMIORL/SPM/2026/05/611
- Report Issued Date** : 02.06.2026

Sl. No	Name of the location	Sample collection Date	Receipt Date	Date of Analysis started	Lab Code	SPM [$\mu\text{g}/\text{m}^3$] IS: 5182 (Part 4): 1999	As per KSPCB STDS
						Result	
1	FA1- Loading point (Neerlabbi)	13.05.2026	14.05.2026	15.05.2026	9390/01	385	600.00 $\mu\text{g}/\text{m}^3$
2	FA2-Dumping point (Neerlabbi)	13.05.2026	14.05.2026	15.05.2026	9390/02	519	
3	FA3-Haulage Road (Neerlabbi)	13.05.2026	14.05.2026	15.05.2026	9390/03	473	
4	FA4-Stock Yard (Neerlabbi)	13.05.2026	14.05.2026	15.05.2026	9390/04	386	
5	FA5-Drilling Point (Neerlabbi)	13.05.2026	14.05.2026	15.05.2026	9390/05	357	
6	FA6-Waste Dumping Point (Neerlabbi)	13.05.2026	14.05.2026	15.05.2026	9390/06	395	

Anand

Analysed By
Anand

Environmental Engineer



H. M. Shivashankaraiah

Authorised Signatory
Shivashankaraiah H M
Technical Manager

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*** End of the Report***

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TEST REPORT

STACK EMISSION DATA

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Stack ID : DG Set 1- 35 KVA DG Set - KK1 Office
3. Sample Collected By : M/s. SUMS Techno Labs Private Limited, Hosapete
4. Equipment Details : SUMSTLPL/ST/CEIS/07
5. Sampling Method : STLPL/SOP/SP/01
6. ULR : TC135432600000612F
7. Test Report Number : STLPL/SMIORL/SE/2026/05/612
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

GENERAL DETAILS

Ambient Temperature (°C)	32
Stack Temperature (°C)	112
Dia (m)	0.15

RESULTS

Parameters	Particulate Matter	Carbon Monoxide	NOx+HC
Protocol	IS:11255 (Part1):1985	Instrumental Method	Instrument Method
Sampling date	07.05.2026	07.05.2026	07.05.2026
Receipt date	08.05.2026	08.05.2026	08.05.2026
Analysis date	09.05.2026	09.05.2026	09.05.2026
Analysis Completed date	11.05.2026	11.05.2026	11.05.2026
Lab code	9389/01	9389/01	9389/01
Velocity (m/s)	6.32		
Results g/Kw-hr	0.138	0.176	0.214
STANDARD	<0.2	<3.5	<4.0

Anand
Analysed by
Anand N
Environmental Engineer



Shivashankaraiah H M
Authorized Signatory
Shivashankaraiah H M
Technical Manager

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TEST REPORT

STACK EMISSION DATA

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Stack ID : DG Set 2- 20 KVA DG Set DBX Kolls
3. Sample Collected By : M/s. SUMS Techno Labs Private Limited, Hosapete
4. Equipment Details : SUMSTLPL/ST/CEIS/07
5. Sampling Method : STLPL/SOP/SP/01
6. ULR : TC135432600000612F
7. Test Report Number : STLPL/SMIORL/SE/2026/05/612
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

GENERAL DETAILS

Ambient Temperature (°C)	34
Stack Temperature (°C)	128
Dia (m)	0.15

TEST RESULTS

Parameters	Particulate Matter	Carbon Monoxide	NO _x +HC
Protocol	IS:11255 (Part1):1985	Instrumental Method	Instrument Method
Sampling date	07.05.2026	07.05.2026	07.05.2026
Receipt date	08.05.2026	08.05.2026	08.05.2026
Analysis date	09.05.2026	09.05.2026	09.05.2026
Analysis Completed date	11.05.2026	11.05.2026	11.05.2026
Lab code	9389/01	9389/01	9389/01
Velocity (m/s)	6.72		
Results g/Kw-hr	0.118	0.156	0.218
STANDARD	<0.2	<3.5	<4.0

Anand N
Analysed by
Anand N
Environmental Engineer



H. N. H M
Authorized Signatory
Shivashankaraiah H M
Technical Manager

Page No.2 of 5



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TEST REPORT

STACK EMISSION DATA

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Stack ID : DG Set 3- 25KVA DG SET- CD Check post
3. Sample Collected By : M/s. SUMS Techno Labs Private Limited, Hosapete
4. Equipment Details : SUMSTLPL/ST/CEIS/07
5. Sampling Method : STLPL/SOP/SP/01
6. ULR : TC135432600000612F
7. Test Report Number : STLPL/SMIORL/SE/2026/05/612
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

GENERAL DETAILS

Ambient Temperature (°C)	35
Stack Temperature (°C)	110
Dia (m)	0.15

TEST RESULTS

Parameters	Particulate Matter	Carbon Monoxide	NOx+HC
Protocol	IS:11255 (Part1):1985	Instrumental Method	Instrument Method
Sampling date	13.05.2026	13.05.2026	13.05.2026
Receipt date	14.05.2026	14.05.2026	14.05.2026
Analysis date	15.05.2026	15.05.2026	15.05.2026
Analysis Completed date	16.05.2026	16.05.2026	16.05.2026
Lab code	9389/01	9389/01	9389/01
Velocity (m/s)	6.84		
Results g/Kw-hr	0.124	0.172	0.238
STANDARD	<0.2	<3.5	<4.0

Anand
Analysed by
Anand N

Environmental Engineer



H. M. Kar
Authorized Signatory
Shivashankaraiah H M
Technical Manager

Page No.3 of 5



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TEST REPORT

STACK EMISSION DATA

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Stack ID : DG Set 4- 7.5KVA DG SET- Governor Point Mines office
3. Sample Collected By : M/s. SUMS Techno Labs Private Limited, Hosapete
4. Equipment Details : SUMSTLPL/ST/CEIS/07
5. Sampling Method : STLPL/SOP/SP/01
6. ULR : TC135432600000612F
7. Test Report Number : STLPL/SMIORL/SE/2026/05/612
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

GENERAL DETAILS

Ambient Temperature (°C)	32
Stack Temperature (°C)	114
Dia (m)	0.15

TEST RESULTS

Parameters	Particulate Matter	Carbon Monoxide	NOx+HC
Protocol	IS:11255 (Part1):1985	Instrumental Method	Instrument Method
Sampling date	13.05.2026	13.05.2026	13.05.2026
Receipt date	14.05.2026	14.05.2026	14.05.2026
Analysis date	15.05.2026	15.05.2026	15.05.2026
Analysis Completed date	16.05.2026	16.05.2026	16.05.2026
Lab code	9389/01	9389/01	9389/01
Velocity (m/s)	6.72		
Results g/Kw-hr	0.064	0.178	0.224
STANDARD	<0.2	<3.5	<4.0

Anand
Analysed by
Anand N
Environmental Engineer



Shivashankaraiah H M
Authorized Signatory
Shivashankaraiah H M
Technical Manager

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TEST REPORT STACK EMISSION DATA

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Stack ID : DG Set 5-20 KVA DG SET- SDMG Siding
3. Sample Collected By : M/s. SUMS Techno Labs Private Limited, Hosapete
4. Equipment Details : SUMSTLPL/ST/CEIS/07
5. Sampling Method : STLPL/SOP/SP/01
6. ULR : TC135432600000612F
7. Test Report Number : STLPL/SMIORL/SE/2026/05/612
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Report Issued Date : 02.06.2026

GENERAL DETAILS

Ambient Temperature (°C)	32
Stack Temperature (°C)	104
Dia (m)	0.15

TEST RESULTS

Parameters	Particulate Matter	Carbon Monoxide	NOx+HC
Protocol	IS:11255 (Part1):1985	Instrumental Method	Instrument Method
Sampling date	13.05.2026	13.05.2026	13.05.2026
Receipt date	14.05.2026	14.05.2026	14.05.2026
Analysis date	15.05.2026	15.05.2026	15.05.2026
Analysis Completed date	16.05.2026	16.05.2026	16.05.2026
Lab code	9389/01	9389/01	9389/01
Velocity (m/s)	6.72		
Results g/Kw-hr	0.118	0.176	0.194
STANDARD	<0.2	<3.5	<4.0

Anand
Analysed by
Anand N

Environmental Engineer



Shivashankaraiah H M
Authorized Signatory
Shivashankaraiah H M
Technical Manager

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3. Water samples will be retained 15 days from the date of issue of the test report.
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*** End of The Report***



SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT SURFACE WATER QUALITY


1. Name and Address of the Project : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Locations : SW1:- Ragavapura kere water, SW-2:- Dhananayakana kere water, SW-3:-Narihalla Upstream water, SW4-Narihalla Downstream water (SW3 and SW4- Locations are dried)
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Sampling Method : STLPL/SOP/SP/01
5. Sampling Date : 08.05.2026
6. Date of Sampling Receipt : 09.05.2026
7. Date of analysis Started : 09.05.2026
8. Discipline : Chemical
9. Group : Water and residues in water
10. Lab Code : 9369/07, 9369/08,
11. Report Issued Date : 02.06.2026

Test Results

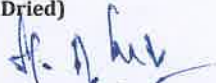
Sl. No	Parameters	Protocol	Unit	Results	
				SW1	SW2
Lab Code				9369/07	9369/08
1.	Taste	APHA 24th Edition-2160 B	-	Agreeable	Agreeable
2.	Odour	APHA 24th Edition-2150 B	-	Agreeable	Agreeable
3.	Biochemical Oxygen Demand	IS:3025(Part-44):2023	mg/l	2	1
4.	Chemical Oxygen Demand	APHA 24 th Edition - 5220 B	mg/l	20.12	20.84
5.	Ammonical Nitrogen as NH ₃ -N	IS:3025(Part-34):1988	mg/l	0.99	089
6.	Oil & Grease	APHA 24 th Edition-5520 B	mg/l	BDL (<2)	BDL (<2)
7.	Total Kjeldhal Nitrogen (as N)	IS:3025(Part-34):1988	mg/l	BDL (<1)	BDL (<1)
8.	Percent of Sodium (%)	Calculation Method	%	30.28	25.48
9.	Residual Sodium Carbonate	Calculation Method	meq/l	ND	ND

BDL: Below Detectable Limit, ND: Not Detected

Note: SW-3 - Narihalla Upstream water, SW4-Narihalla Downstream water (SW3 and SW4- locations are Dried)


Analysed by
Shanthi.P
Chemist




Authorized Signatory
Shivashankaraiah.H.M
Technical Manager

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*****END OF THE REPORT*****

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TEST REPORT SURFACE WATER QUALITY

1. Name and Address of the Project : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Locations : SW1:- Ragavapura kere water, SW-2:- Dhananayakana kere water SW-3:-Narihalla Upstream water, SW4-Narihalla Downstream water (SW3 and SW4- locations are Dried)
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Sampling Method : STLPL/SOP/SP/01
5. Sampling Date : 08.05.2026
6. Date of Sampling Receipt : 09.05.2026
7. Date of analysis Started : 09.05.2026
8. ULR : TC135432600000632F
9. Test Report Number : STLPL/SMIORL/SW/2026/05/632
10. Discipline : Chemical
11. Group : Water and residues in water
12. Lab Code : 9369/7, 9369/8,
13. Report Issued Date : 02.06.2026

Test Results

Sl. No	Parameters	Protocol	Unit	Result	
				SW1	SW2
Lab Code				9369/7	9369/8
1	Colour	APHA 24 th Edition -2120 B	Hazen	<5	<5
2	pH (at 25°C)	APHA 24 th Edition -4500 H ⁺ B	--	7.94	7.59
3	Turbidity	APHA 24 th Edition -2130 B	NTU	12.4	14.3
4	Conductivity	APHA 24 th Edition - 2510 B	µmhos /cm	310	464
5	Total Dissolved Solids	APHA 24 th Edition -2540 C	mg/l	248	320
6	Total Alkalinity as CaCO ₃	APHA 24 th Edition - 2320 B	mg/l	104.42	140.56
7	Total Hardness as CaCO ₃	APHA 24 th Edition - 2340 C	mg/l	118.37	159.18
8	Calcium as Ca	APHA 24 th Edition - 3500 Ca B	mg/l	27.76	34.29
9	Magnesium as Mg	APHA 24 th Edition - 3500 Mg B	mg/l	11.90	17.85
10	Sodium as Na	APHA 24 th Edition -3500 Na B	mg/l	24.80	25.79
11	Potassium as K	APHA 24 th Edition -3500 K B	mg/l	4.00	3.00
12	Iron as Fe	APHA 24 th Edition -3500 Fe B	mg/l	0.27	0.32
13	Chlorides as Cl	APHA 24 th Edition - 4500Cl ⁻ B	mg/l	36.35	49.75
14	Sulphates as SO ₄	APHA 24 th Edition -4500 SO ₄ E	mg/l	36.30	47.49



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Test Results

Sl. No	Parameters	Protocol	Unit	Result	
				SW1	SW2
Lab Code				9369/7	9369/8
15	Nitrates as NO ₃	IS:3025 (PART-34)3B :1988	mg/l	3.97	4.85
16	Fluoride as F	APHA 24 th Edition -4500F D	mg/l	0.32	0.39
17	Boron as B	APHA 24 th Edition -4500 B B	mg/l	BDL (<0.1)	BDL (<0.1)
18	Dissolved Oxygen	IS:3025 (Part-38):2025	mg/l	5.7	6.2
19	Total Suspended Solids	APHA 24 th Edition-3111B	mg/l	14	20
20	Phenols	APHA 24 th Edition -5530 D	mg/l	ND	ND
21	Phosphate as PO ₄	APHA 24 th Edition 4500 P D	mg/l	BDL (<0.2)	BDL (<0.2)
22	Arsenic as As	APHA 24 th Edition 3114 B	mg/l	ND	ND
23	Cadmium as Cd	APHA 24 th Edition 3111 B	mg/l	ND	ND
24	Zinc as Zn	APHA 24 th Edition 3111 B	mg/l	0.14	0.21
25	Copper as Cu	APHA 24 th Edition 3111 B	mg/l	BDL(<0.05)	BDL(<0.05)
26	Lead as Pb	APHA 24 th Edition 3111 B	mg/l	ND	ND
27	Manganese	APHA 24 th Edition 3111 B	mg/l	0.05	0.07
28	Residual Chlorine	IS 3025 (Part 26):2021	mg/l	BDL (<0.4)	BDL (<0.4)
29	Volatile Solids Ignited at 550°C	APHA 24 th Edition 2540 E	mg/l	48	62

Note: - 1-AL: Acceptable Limit, PL: Permissible Limit, ND-Not Detected, NR: No Relaxation, BDL: Below Detectable Limit

Note: -2- SW-3 - Narihalla Upstream water, SW4-Narihalla Downstream water (SW3 and SW4- locations are Dried)

Shanthi.P

Analysed by
Shanthi.P
Chemist



H.M. Shivashankaraiah

Authorized Signatory
Shivashankaraiah.H.M
Technical Manager

Page No.2 of 3



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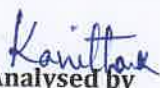
TC-13543

TEST REPORT SURFACE WATER QUALITY

1. Name and Address of the Project : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Locations : SW1:- Ragavapura kere water, SW-2:- Dhananayakana kere water SW-3:-Narihalla Upstream water, SW4-Narihalla Downstream water (SW3 and SW4- locations are Dried)
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Sampling Method : STLPL/SOP/SP/01
5. Sampling Date : 08.05.2026
6. Date of Sampling Receipt : 09.05.2026
7. Date of analysis Started : 09.05.2026
8. ULR : TC135432600000632F
9. Test Report Number : STLPL/SMIORL/SW/2026/05/632
10. Discipline : Biological
11. Group : Water
12. Lab Code : 9369/7, 9369/8,
13. Report Issued Date : 02.06.2026

Test Results

Sl. No	Parameters	Protocol	Unit	Result	
				SW1	SW2
Lab Code				9369/7	9369/8
1	E. Coli	APHA 24 th Edition - 9221 B/G2	MPN/100ml	130	145


Analysed by
Kavitha.K
Microbiologist




Authorized Signatory
Shradha. J. Rao
Senior Microbiologist

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*****END OF THE REPORT*****

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TEST REPORT SURFACE WATER QUALITY

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8. Test Report Number : STLPL/SMIORL/SW/2026/05/632
9. Discipline : Biological
10. Group : Water
11. Lab Code : 9369/7, 9369/8,
12. Report Issued Date : 02.06.2026

Test Results

Sl. No	Parameters	Protocol	Unit	Result	
				SW1	SW2
Lab Code			9369/7	9369/8	
1	Total Coliforms	APHA 24 th Edition - 9221-A/B	MPN/100ml	105	110

Kavitha.K
Analysed by
Kavitha.K
Microbiologist



S. J. Rao
Authorized Signatory
Shradha. J. Rao
Senior Microbiologist

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*****END OF THE REPORT*****

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TEST REPORT GROUND WATER QUALITY

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2. Name of the Location : GW1 - Project Site Core Zone BW, GW2 - Ramghad Bore water,
GW3 - Dharmapura Bore water
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
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5. Date of Sampling Receipt : 14.05.2026
6. Date of analysis Started : 14.05.2026
7. Sampling Method : STLPL/SOP/SP/01
8. Discipline : Chemical
9. Group : Water and Residues in water
10. ULR : TC135432600000632F
11. Test Report Number : SUMSTLPL/SMIORL/GW/2026/05/632
12. Lab Code : 9369/01, 9369/02, 9369/03,
13. Report Issued Date : 02.06.2026

TEST RESULTS

Sl. No	Parameters	Protocol	Unit	Results			Standards as per IS :10500:2012	
				GW-1 9369/01	GW-2 9369/02	GW-3 9369/03	AL	PL
N				9369/01	9369/02	9369/03	AL	PL
1	Colour	APHA 24 th Edition -2120 B	CU	<5	<5	<5	5	15
2	pH (at 25°C)	APHA 24 th Edition -4500 H ⁺ B	--	6.89	6.42	7.35	6.5-8.5	NR
3	Turbidity	APHA 24 th Edition -2130 B	NTU	1.2	1.3	1.4	1	5
4	Conductivity	APHA 24 th Edition - 2510 B	µmhos/cm	227	186	1734	-	-
5	Total Dissolved Solids	APHA 24 th Edition -2540 C	mg/l	156	128	1196	500	2000
6	Total Alkalinity as CaCO ₃	APHA 24 th Edition - 2320 B	mg/l	88.35	24.10	528.11	200	600
7	Total Hardness as CaCO ₃	APHA 24 th Edition - 2340 C	mg/l	85.71	38.78	595.92	200	600
8	Calcium as Ca	APHA 24 th Edition - 3500 Ca B	mg/l	17.96	8.98	153.47	75	200
9	Magnesium as Mg	APHA 24 th Edition - 3500 Mg B	mg/l	9.92	3.97	51.58	30	100
10	Sodium as Na	APHA 24 th Edition -3500 Na B	mg/l	14.88	15.87	119.04	-	-
11	Potassium as K	APHA 24 th Edition -3500 K B	mg/l	2.00	1.00	3.00	-	-
12	Iron as Fe	APHA 24 th Edition -3500 Fe B	mg/l	0.08	0.07	0.14	1.0	NR
13	Chlorides as Cl	APHA 24 th Edition - 4500Cl ⁻ B	mg/l	17.22	42.09	209.50	250	1000
14	Sulphates as SO ₄	APHA 24 th Edition -4500 SO ₄ E	mg/l	7.69	14.53	111.68	200	400
15	Nitrates as NO ₃	IS:3025 (PART-34) :1988	mg/l	7.77	6.72	35.17	45	NR
16	Fluoride as F	APHA 24 th Edition -4500F D	mg/l	0.57	0.40	1.14	1.0	1.5

Page No.01 of 06

Head Office: 15-DP2, KIADB, Sankalapura Industrial Area, Ballari Road, Hosapete - 583201, Vijayanagara District, Karnataka, Tel/Fax No. 08394-265084, Cell: +91-8884494244/261/250/239, E-mail: technolabs@sums.org.in, sums.hpt@gmail.com, Website: www.sums.org.in



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TEST RESULTS

Sl. No	Parameters	Protocol	Unit	Results			Standards as per IS :10500:2012	
				GW-1	GW-2	GW-3	9369/03	PL
	Lab Code			9369/01	9369/01	9369/02	9369/03	PL
17	Boron as B	APHA 24 th Edition -4500 B B	mg/l	BDL <0.1	BDL <0.1	BDL <0.1	0.5	2.4
18	Residual Free Chlorine	IS:3025(Part-26):2021	mg/l	BDL (<0.4)	BDL (<0.4)	BDL (<0.4)	0.2	1.0
19	Phenols	APHA 24 th Edition -5530 D	mg/l	ND	ND	ND	0.001	0.002
20	Aluminum as Al	APHA 24 th Edition 3111 D	mg/l	ND	ND	ND	0.03	0.2
21	Arsenic as As	APHA 24 th Edition 3114 B	mg/l	ND	ND	ND	0.01	NR
22	Cadmium as Cd	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.003	NR
23	Chromium as Cr	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.05	NR
24	Copper as Cu	APHA 24 th Edition 3111 B	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	0.05	1.5
25	Lead as Pb	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.01	NR
26	Nickel as Ni	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.02	NR
27	Manganese as Mn	APHA 24 th Edition 3111 B	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	0.1	0.3
28	Zinc as Zn	APHA 24 th Edition 3111 B	mg/l	BDL(<0.05)	BDL(<0.05)	0.10	5	15
29	Silver as Ag	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.1	NR
30	Mercury as Hg	APHA 24 th Edition 3112 B	mg/l	ND	ND	ND	0.001	NR

Note: - AL: Acceptable Limit, PL: Permissible Limit, ND-Not Detected, NR: No Relaxation, BDL: Below Detectable Limit


Analysed by
Shanthi.P
Chemist




Authorized Signatory
Shivashankaraiah H M
Technical Manager

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SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT

GROUND WATER QUALITY

- Name of the Project and Address** : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679)
The Sandur Manganese & Iron Ores Limited,
Ramghad Village, Sandur Taluk,
Ballari District, Karnataka.
- Name of the Location** : GW1 - Project Site Core Zone BW, GW2 - Ramghad Bore water,
GW3 - Dharmapura Bore water
- Sample Collected By** : SUMS Techno Labs Private Limited, Hosapete
- Date of Collection** : 13.05.2026
- Date of Sampling Receipt** : 14.05.2026
- Date of analysis Started** : 14.05.2026
- Sampling Method** : STLPL/SOP/SP/01
- Discipline** : Biological
- Group** : Water
- ULR** : TC135432600000632F
- Test Report Number** : SUMSTLPL/SMIORL/GW/2026/05/632
- Lab Code** : 9369/03, 9369/04, 9369/05,
- Report Issued Date** : 02.06.2026

Sl. No	Parameters	Protocol	Unit	Results			Standards as per IS :10500:2012	
				GW-1	GW-2	GW-3	AL	PL
	Lab Code			9369/01	9369/02	9369/03		
1	E. coli	APHA 24 th Edition - 9221 B/G2	MPN/100ml	Absent	Absent	Absent	Shall not be detectable in any 100ml Sample	

AL: Acceptable Limit, PL: Permissible Limit

Kavitha.K
Analysed by
Kavitha.K
Microbiologist



S.J.Rao
Authorized Signatory
Shradha. J. Rao
Senior Microbiologist

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Page No.03 of 06



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TEST REPORT GROUND WATER QUALITY

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679)
The Sandur Manganese & Iron Ores Limited,
Ramghad Village, Sandur Taluk,
Ballari District, Karnataka.
2. Name of the Location : GW4 - Garaga Bore Water, GW5 - Yeshwanthnagar Bore water
GW6 - Subbarayanahalli Bore water
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Date of Collection : 13.05.2026
5. Date of Sampling Receipt : 14.05.2026
6. Date of analysis Started : 14.05.2026
7. Sampling Method : STLPL/SOP/SP/01
8. Discipline : Chemical
9. Group : Water and Residues in water
10. ULR : TC135432600000632F
11. Test Report Number : SUMSTLPL/SMIORL/GW/2026/05/632
12. Lab Code : 9369/07, 9369/08, 9369/09,
13. Report Issued Date : 02.06.2026

TEST RESULTS

Sl. No	Parameters	Protocol	Unit	Results			Standards as per IS :10500:2012	
				GW-4	GW-5	GW-6	AL	PL
	Lab Code			9369/04	9369/05	9369/06	AL	PL
1	Colour	APHA 24 th Edition -2120 B	CU	<5	<5	<5	5	15
2	pH (at 25°C)	APHA 24 th Edition -4500 H ⁺ B	--	8.23	6.85	7.86	6.5-8.5	NR
3	Turbidity	APHA 24 th Edition -2130 B	NTU	1.6	1	1.4	1	5
4	Conductivity	APHA 24 th Edition - 2510 B	µmhos/cm	1018	1870	390	-	-
5	Total Dissolved Solids	APHA 24 th Edition -2540 C	mg/l	702	1290	1290	500	2000
6	Total Alkalinity as CaCO ₃	APHA 24 th Edition - 2320 B	mg/l	305.22	524.10	118.47	200	600
7	Total Hardness as CaCO ₃	APHA 24 th Edition - 2340 C	mg/l	246.94	591.84	97.96	200	600
8	Calcium as Ca	APHA 24 th Edition - 3500 Ca B	mg/l	53.88	146.94	23.67	75	200
9	Magnesium as Mg	APHA 24 th Edition - 3500 Mg B	mg/l	27.28	54.55	9.42	30	100
10	Sodium as Na	APHA 24 th Edition -3500 Na B	mg/l	99.20	128.96	26.78	-	-
11	Potassium as K	APHA 24 th Edition -3500 K B	mg/l	2.00	4.00	2.00	-	-
12	Iron as Fe	APHA 24 th Edition -3500 Fe B	mg/l	0.13	0.12	0.09	1.0	NR
13	Chlorides as Cl	APHA 24 th Edition - 4500Cl ⁻ B	mg/l	120.54	283.17	40.18	250	1000
14	Sulphates as SO ₄	APHA 24 th Edition -4500 SO ₄ E	mg/l	87.14	103.56	23.96	200	400
15	Nitrates as NO ₃	IS:3025 (PART-34):1988	mg/l	11.66	39.80	9.51	45	NR
16	Fluoride as F	APHA 24 th Edition -4500F D	mg/l	1.25	0.80	0.62	1.0	1.5
17	Boron as B	APHA 24 th Edition -4500 B B	mg/l	BDL <0.1	BDL <0.1	BDL <0.1	0.5	2.4

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TEST RESULTS

Sl. No	Parameters	Protocol	Unit	Results			Standards as per IS : 10500:2012	
				GW-4	GW-5	GW-6	AL	PL
	Lab Code			9369/04	9369/05	9369/06	AL	PL
18	Residual Free Chlorine	IS:3025(Part-26):2021	mg/l	BDL (<0.4)	BDL (<0.4)	BDL (<0.4)	0.2	1.0
19	Phenols	APHA 24th Edition -5530 D	mg/l	ND	ND	ND	0.001	0.002
20	Aluminum as Al	APHA 24 th Edition 3111 D	mg/l	ND	ND	ND	0.03	0.2
21	Arsenic as As	APHA 24 th Edition 3114 B	mg/l	ND	ND	ND	0.01	NR
22	Cadmium as Cd	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.003	NR
23	Chromium as Cr	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.05	NR
24	Copper as Cu	APHA 24 th Edition 3111 B	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	0.05	1.5
25	Lead as Pb	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.01	NR
26	Nickel as Ni	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.02	NR
27	Manganese as Mn	APHA 24 th Edition 3111 B	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	0.1	0.3
28	Zinc as Zn	APHA 24 th Edition 3111 B	mg/l	0.10	0.09	0.12	5	15
29	Silver as Ag	APHA 24 th Edition 3111 B	mg/l	ND	ND	ND	0.1	NR
30	Mercury as Hg	APHA 24 th Edition 3112 B	mg/l	ND	ND	ND	0.001	NR

Note: - AL: Acceptable Limit, PL: Permissible Limit, ND-Not Detected, NR: No Relaxation, BDL: Below Detectable Limit

Shanthy P

Analysed by
Shanthy.P
Chemist



Shivashankaraiah H M

Authorized Signatory
Shivashankaraiah H M
Technical Manager

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TC-13543

TEST REPORT GROUND WATER QUALITY

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The Sandur Manganese & Iron Ores Limited,
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Ballari District, Karnataka.
2. Name of the Location : GW4 - Garaga Bore Water, GW5 - Yeshwanthnagar Bore water
GW6 - Subbarayanahalli Bore water
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Date of Collection : 13.05.2026
5. Date of Sampling Receipt : 14.05.2026
6. Date of analysis Started : 14.05.2026
7. Sampling Method : STLPL/SOP/SP/01
8. Discipline : Biological
9. Group : Water
10. ULR : TC135432600000632F
11. Test Report Number : SUMSTLPL/SMIORL/GW/2026/05/632
12. Lab Code : 9369/04, 9369/05, 9369/06,
13. Report Issued Date : 02.06.2026

Sl. No	Parameters	Protocol	Unit	Results			Standards as per IS :10500:2012	
				GW-1	GW-2	GW-3	AL	PL
	Lab Code			9369/04	9369/05	9369/06	AL	PL
1	E. coli	APHA 24 th Edition - 9221 B/G2	MPN/100ml	Absent	Absent	Absent	Shall not be detectable in any 100ml Sample	

Note: - AL: Acceptable Limit, PL: Permissible Limit, ND-Not Detected, NR: No Relaxation, BDL: Below Detectable Limit

Kavitha
Analysed by
Kavitha.K
Microbiologist



S.J.Rao
Authorized Signatory
Shradha.J.Rao
Senior Microbiologist

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*** End of the Report**

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TEST REPORT

GROUND WATER QUALITY

1. Name and Address of the Project : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Location : GW1 - Project Site Core Zone Bore water, GW2 - Ramghad Bore water, GW3 - Dharmapura Bore water
3. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
4. Sampling Method : STLPL/SOP/SP/01
5. Sampling Date : 13.05.2026
6. Date of Sampling Receipt : 14.05.2026
7. Date of analysis Started : 14.05.2026
8. Discipline : Chemical
9. Group : Water and residues in water
10. Lab Code : 9369/01, 9369/02, 9369/03
11. Test Report Number : SUMSTLPL/SMIORL/GW/2026/05/632/1
12. Report Issued Date : 02.06.2026

Sl. No	Parameters	Protocol	Unit	Results			Standards As per IS:10500:2012	
				GW-1	GW-2	GW-3	AL	PL
	Lab Code			9369/01	9369/02	9369/03	AL	PL
1.	Odour	APHA 24 th Edition-2150 B	--	Ag	Ag	Ag	Ag	Ag
2.	Taste	APHA 24 th Edition-2160 B	--	Ag	Ag	Ag	Ag	Ag
3.	Sulphide	APHA 24 th Edition 4500 S2	mg/l	<0.05	<0.05	<0.05	0.05	NR
4.	Cyanide as CN	APHA 24 th Edition-4500 CN	mg/l	ND	ND	ND	0.05	NR
5.	Molybdenum (as Mo)	APHA 24 th Edition 3111 D		ND	ND	ND	0.07	NR
6.	Barium as Ba	APHA 24 th Edition-3111B	mg/l	ND	ND	ND	0.7	NR
7.	Selenium as Se	APHA 24 th Edition-3114 B	mg/l	ND	ND	ND	0.01	NR
8.	Anionic detergent as MBAS	APHA 24 th Edition-5540 C	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	0.2	1
9.	Mineral Oil	APHA 24 th Edition-5520 B	mg/l	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	0.5	NR

Note: AL: Acceptable Limit, PL: Permissible Limit, Ag-Agreeable, NR-No Relaxation, ND-Not Detected

Shanthi.P
Analysed by
Shanthi.P
Chemist



Shivashankaraiah H M
Authorized Signatory
Shivashankaraiah H M
Technical Manager

Page No.01 of 04



SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT

GROUND WATER QUALITY

- Name and Address of the Project** : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
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- Sampling Date** : 13.05.2026
- Date of Sampling Receipt** : 14.05.2026
- Date of analysis Started** : 14.05.2026
- Discipline** : Chemical
- Group** : Water and residues in water
- Lab Code** : 9369/04, 9369/05, 9369/06
- Test Report Number** : SUMSTLPL/SMIORL/GW/2026/05/632/1
- Report Issued Date** : 02.06.2026

S. No	Parameters	Protocol	Unit	Results			Standards As per IS :10500:2012	
				GW-4	GW-5	GW-6	AL	PL
	Lab Code			9369/04	9369/5	9369/6	AL	PL
1.	Odour	APHA 24 th Edition-2150 B	--	Ag	Ag	Ag	Ag	Ag
2.	Taste	APHA 24 th Edition-2160 B	--	Ag	Ag	Ag	Ag	Ag
3.	Sulphide	APHA 24 th Edition 4500 S2·F	mg/l	<0.05	<0.05	<0.05	0.05	NR
4.	Cyanide as CN	APHA 24 th Edition-4500 CN·D	mg/l	ND	ND	ND	0.05	NR
5.	Molybdenum (as Mo)	APHA 24 th Edition 3111 D		ND	ND	ND	0.07	NR
6.	Barium as Ba	APHA 24 th Edition-3111B	mg/l	ND	ND	ND	0.7	NR
7.	Selenium as Se	APHA 24 th Edition-3114 B	mg/l	ND	ND	ND	0.01	NR
8.	Anionic detergent as MBAS	APHA 24 th Edition-5540 C	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	0.2	1
9.	Mineral Oil	APHA 24 th Edition-5520 B	mg/l	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	0.5	NR

Note: AL: Acceptable Limit, PL: Permissible Limit, Ag-Agreeable, NR-No Relaxation, ND-Not Detected

Shanthy P.

Analysed by
Shanthy.P
Chemist



Shivashankaraiah H M

Authorized Signatory
Shivashankaraiah H M
Technical Manager



SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environmental Laboratory]
NABL Accredited Laboratory Cert No. TC-13543
Recognized by MoEF



TC-13543

TEST REPORT

GROUND WATER QUALITY

- Name and Address of the Project : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
- Name of the Location : GW1 - Project Site Core Zone Bore water, GW2 - Ramghad Bore water, GW3 - Dharmapura Bore water
- Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
- Sampling Method : STLPL/SOP/SP/01
- Sampling Date : 13.05.2026
- Date of Sampling Receipt : 14.05.2026
- Date of analysis Started : 14.05.2026
- Discipline : Chemical
- Group : Water and residues in water
- Lab Code : 9369/01, 9369/02, 9369/03
- Test Report Number : SUMSTLPL/SMIORL/GW/2026/05/632/1
- Report Issued Date : 02.06.2026

Sl. No	Parameters	Protocol	Unit	Results			Standards As per IS:10500:2012	
				GW-1	GW-2	GW-3	AL	PL
	Lab Code			9369/01	9369/02	9369/03	AL	PL
1.	Total Coliforms	APHA 24th Edition - 9221-A/B	MPN /100ml	Absent	Absent	Absent	Shall not be detectable in any 100ml Sample	

Note: AL: Acceptable Limit, PL: Permissible Limit, Ag-Agreeable, NR-No Relaxation, ND-Not Detected

Kavitha.K
Analysed by
Kavitha.K
Microbiologist



S. Shradha
Authorized Signatory
Shradha. J. Rao
Senior Microbiologist

Terms and conditions:

- The test report shall not be reproduced in full or part without the written approval of SUMS Techno Labs.
- Ores and minerals, Coal & Coke, and Soil samples shall be retained for a maximum period of three months from the issue of the test report.
- Water samples will be retained 15 days from the date of issue of the test report.
- The test results relate only to the items tested as received.
- The testing activities are performed in permanent facility located at Hosapete.

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TEST REPORT

GROUND WATER QUALITY

- Name and Address of the Project** : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
- Name of the Location** : GW4 - Garaga Bore Water, GW5 - Yeshwanthnagar Bore water
- Sample Collected By** : SUMS Techno Labs Private Limited, Hosapete
- Sampling Method** : STLPL/SOP/SP/01
- Sampling Date** : 13.05.2026
- Date of Sampling Receipt** : 14.05.2026
- Date of analysis Started** : 14.05.2026
- Discipline** : Chemical
- Group** : Water and residues in water
- Lab Code** : 9369/04, 9369/05, 9369/06
- Test Report Number** : SUMSTLPL/SMIORL/GW/2026/05/632/1
- Report Issued Date** : 02.06.2026

Sr. No	Parameters	Protocol	Unit	Results			Standards As per IS :10500:2012	
				GW-4	GW-5	GW-6	AL	PL
	Lab Code			9369/04	9369/5	9369/6	AL	PL
1	Total Coliforms	APHA 24th Edition - 9221-A/B	MPN /100ml	Absent	Absent	Absent	Shall not be detectable in any 100ml Sample	

Note: AL: Acceptable Limit, PL: Permissible Limit, Ag-Agreeable, NR-No Relaxation, ND-Not Detected

Kavitha K
Analysed by
Kavitha.K
Microbiologist



S. J. Rao
Authorized Signatory
Shradha. J. Rao
Senior Microbiologist

Terms and conditions:

- The test report shall not be reproduced in full or part without the written approval of SUMS Techno Labs.
- Ores and minerals, Coal & Coke, and Soil samples shall be retained for a maximum period of three months from the issue of the test report.
- Water samples will be retained 15 days from the date of issue of the test report.
- The test results relate only to the items tested as received.
- The testing activities are performed in permanent facility located at Hosapete.

*** End of the Report***

Page No.04 of 04



SUMS TECHNO LABS PRIVATE LIMITED

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TC-13543

TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N1 - Core Zone - (ML Area)
6. Date of Sampling : 08.05.2026, 6.00AM to 09.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. ULR Number : TC135432600000633F
10. Test Report Number : STLPL/SMIORL/AN/2026/05/633
11. Lab Code : 9368/01
12. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards	
		Day Time				
		MIN	MAX	LEQ		
1.	06:00 to 07:00	59.0	74.2	66.2	75 dB(A)	
	07:00 to 08:00	57.4	75.9	66.0	75 dB(A)	
	08:00 to 09:00	57.1	75.7	65.7	75 dB(A)	
	09:00 to 10:00	54.1	70.9	61.9	75 dB(A)	
	10:00 to 11:00	56.1	70.0	62.7	75 dB(A)	
	11:00 to 12:00	59.0	71.2	64.8	75 dB(A)	
	12:00 to 13:00	57.9	70.0	63.7	75 dB(A)	
	13:00 to 14:00	56.4	69.1	62.4	75 dB(A)	
	14:00 to 15:00	54.7	71.9	62.7	75 dB(A)	
	15:00 to 16:00	58.3	71.5	64.6	75 dB(A)	
	16:00 to 17:00	57.0	68.4	62.4	75 dB(A)	
	17:00 to 18:00	58.3	71.6	64.6	75 dB(A)	
	18:00 to 19:00	57.9	72.2	64.7	75 dB(A)	
	19:00 to 20:00	57.0	73.4	64.7	75 dB(A)	
	20:00 to 21:00	57.9	77.0	66.8	75 dB(A)	
	21:00 to 22:00	57.4	68.4	62.7	75 dB(A)	
		Avg.	57.2	72.0	64.2	75 dB(A)
			Night Time			
		22:00 to 23:00	51.4	62.6	56.7	70 dB(A)
		23:00 to 24:00	46.1	61.3	53.2	70 dB(A)
	00:00 to 01:00	50.7	57.4	53.9	70 dB(A)	
	01:00 to 02:00	47.0	58.7	52.5	70 dB(A)	
	02:00 to 03:00	45.6	60.0	52.3	70 dB(A)	
	03:00 to 04:00	45.5	56.1	50.5	70 dB(A)	
	04:00 to 05:00	49.4	60.0	54.4	70 dB(A)	
	05:00 to 06:00	45.6	58.0	51.4	70 dB(A)	
	Avg	47.7	59.3	53.1	70 dB(A)	



(Signature)
Authorized Signatory
Shivashankaraiah H M

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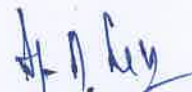
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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N1 - Core Zone - (ML Area)
6. Date of Sampling : 08.05.2026, 6.00AM to 09.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
1.	06:00 to 07:00 Hrs.	60.5	66.6	72.7	
	07:00 to 08:00 Hrs.	59.3	66.7	74.1	
	08:00 to 09:00 Hrs.	59.0	66.4	73.8	
	09:00 to 10:00 Hrs.	55.8	62.5	69.2	
	10:00 to 11:00 Hrs.	57.5	63.1	68.6	
	11:00 to 12:00 Hrs.	60.2	65.1	70.0	
	12:00 to 13:00 Hrs.	59.1	64.0	68.8	
	13:00 to 14:00 Hrs.	57.7	62.8	67.8	
	14:00 to 15:00 Hrs.	56.4	63.3	70.2	
	15:00 to 16:00 Hrs.	59.6	64.9	70.2	
	16:00 to 17:00 Hrs.	58.1	62.7	67.3	
	17:00 to 18:00 Hrs.	59.6	65.0	70.3	
	18:00 to 19:00 Hrs.	59.3	65.1	70.8	
	19:00 to 20:00 Hrs.	58.6	65.2	71.8	
	20:00 to 21:00 Hrs.	59.8	67.5	75.1	
	21:00 to 22:00 Hrs.	58.5	62.9	67.3	
	Avg.	58.7	64.6	70.5	
			Night Time		
		22:00 to 23:00 Hrs.	52.5	57.0	61.5
		23:00 to 24:00 Hrs.	47.6	53.7	59.8
		00:00 to 01:00 Hrs.	51.4	54.1	56.7
	01:00 to 02:00 Hrs.	48.2	52.9	57.5	
	02:00 to 03:00 Hrs.	47.0	52.8	58.6	
	03:00 to 04:00 Hrs.	46.6	50.8	55.0	
	04:00 to 05:00 Hrs.	50.5	54.7	58.9	
	05:00 to 06:00 Hrs.	46.8	51.8	56.8	
	Avg	48.8	53.5	58.1	




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Shivashankaraiah H M

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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N2- Core Zone - (Myadara Banda Block)
6. Date of Sampling : 08.05.2026, 6.00AM to 09.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. ULR Number : TC135432600000633F
10. Test Report Number : STLPL/SMIORL/AN/2026/05/633
11. Lab Code : 9368/02
12. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards	
		Day Time				
		MIN	MAX	LEQ		
2.	06:00 to 07:00	53.9	68.9	60.9	75 dB(A)	
	07:00 to 08:00	54.0	66.3	59.8	75 dB(A)	
	08:00 to 09:00	54.5	64.5	59.3	75 dB(A)	
	09:00 to 10:00	55.1	67.6	61.0	75 dB(A)	
	10:00 to 11:00	51.7	58.5	55.0	75 dB(A)	
	11:00 to 12:00	55.8	66.3	60.8	75 dB(A)	
	12:00 to 13:00	54.6	67.6	60.8	75 dB(A)	
	13:00 to 14:00	53.5	66.3	59.6	75 dB(A)	
	14:00 to 15:00	59.3	64.3	61.7	75 dB(A)	
	15:00 to 16:00	61.8	68.5	65.1	75 dB(A)	
	16:00 to 17:00	57.5	70.0	63.4	75 dB(A)	
	17:00 to 18:00	55.1	64.7	59.7	75 dB(A)	
	18:00 to 19:00	53.9	62.7	58.1	75 dB(A)	
	19:00 to 20:00	53.5	61.0	57.1	75 dB(A)	
	20:00 to 21:00	50.2	58.6	54.2	75 dB(A)	
	21:00 to 22:00	49.5	59.2	54.1	75 dB(A)	
	Avg.	54.6	64.7	59.4	75 dB(A)	
		Night Time				
		22:00 to 23:00	49.7	64.0	56.4	70 dB(A)
		23:00 to 24:00	48.4	67.7	57.2	70 dB(A)
		00:00 to 01:00	46.2	62.4	53.7	70 dB(A)
	01:00 to 02:00	47.8	63.7	55.2	70 dB(A)	
	02:00 to 03:00	48.4	62.9	55.2	70 dB(A)	
	03:00 to 04:00	44.6	63.0	53.0	70 dB(A)	
	04:00 to 05:00	47.5	58.5	52.7	70 dB(A)	
	05:00 to 06:00	48.2	62.4	54.8	70 dB(A)	
	Avg	47.6	63.1	54.8	70 dB(A)	



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Shivashankaraiah H M

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SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N2- Core Zone - (Myadara Banda Block)
6. Date of Sampling : 08.05.2026, 6.00AM to 09.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
2.	06:00 to 07:00 Hrs.	55.4	61.4	67.4	
	07:00 to 08:00 Hrs.	55.2	60.2	65.1	
	08:00 to 09:00 Hrs.	55.5	59.5	63.5	
	09:00 to 10:00 Hrs.	56.4	61.4	66.4	
	10:00 to 11:00 Hrs.	52.4	55.1	57.8	
	11:00 to 12:00 Hrs.	56.9	61.1	65.3	
	12:00 to 13:00 Hrs.	55.9	61.1	66.3	
	13:00 to 14:00 Hrs.	54.8	59.9	65.0	
	14:00 to 15:00 Hrs.	59.8	61.8	63.8	
	15:00 to 16:00 Hrs.	62.5	65.2	67.8	
	16:00 to 17:00 Hrs.	58.8	63.8	68.8	
	17:00 to 18:00 Hrs.	56.1	59.9	63.7	
	18:00 to 19:00 Hrs.	54.8	58.3	61.8	
	19:00 to 20:00 Hrs.	54.3	57.3	60.3	
	20:00 to 21:00 Hrs.	51.0	54.4	57.8	
	21:00 to 22:00 Hrs.	50.5	54.4	58.2	
		Avg.	55.6	59.7	63.7
			Night Time		
		22:00 to 23:00 Hrs.	51.1	56.9	62.6
		23:00 to 24:00 Hrs.	50.3	58.1	65.8
		00:00 to 01:00 Hrs.	47.8	54.3	60.8
	01:00 to 02:00 Hrs.	49.4	55.8	62.1	
	02:00 to 03:00 Hrs.	49.9	55.7	61.5	
	03:00 to 04:00 Hrs.	46.4	53.8	61.2	
	04:00 to 05:00 Hrs.	48.6	53.0	57.4	
	05:00 to 06:00 Hrs.	49.6	55.3	61.0	
	Avg	49.1	55.3	61.5	




Authorized Signatory
Shivashankaraiah H M

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SUMS TECHNO LABS PRIVATE LIMITED

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TC-13543

TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N3- Core Zone - (Governor Point)
6. Date of Sampling : 13.05.2026, 6.00AM to 14.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. ULR Number : TC135432600000633F
10. Test Report Number : STLPL/SMIORL/AN/2026/05/633
11. Lab Code : 9368/03
12. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards	
		Day Time				
		MIN	MAX	LEQ		
3.	06:00 to 07:00	57.9	73.2	65.1	75 dB(A)	
	07:00 to 08:00	55.7	73.4	63.9	75 dB(A)	
	08:00 to 09:00	54.8	70.8	62.3	75 dB(A)	
	09:00 to 10:00	57.7	68.2	62.7	75 dB(A)	
	10:00 to 11:00	55.9	72.4	63.6	75 dB(A)	
	11:00 to 12:00	60.3	70.8	65.3	75 dB(A)	
	12:00 to 13:00	56.0	67.4	61.4	75 dB(A)	
	13:00 to 14:00	56.7	71.0	63.4	75 dB(A)	
	14:00 to 15:00	53.7	72.5	62.4	75 dB(A)	
	15:00 to 16:00	56.2	72.2	63.7	75 dB(A)	
	16:00 to 17:00	59.2	68.8	63.8	75 dB(A)	
	17:00 to 18:00	56.3	76.5	65.6	75 dB(A)	
	18:00 to 19:00	56.6	77.4	66.2	75 dB(A)	
	19:00 to 20:00	58.7	72.3	65.1	75 dB(A)	
	20:00 to 21:00	59.6	74.8	66.8	75 dB(A)	
	21:00 to 22:00	56.6	76.5	65.8	75 dB(A)	
		Avg.	57.0	72.4	64.2	75 dB(A)
			Night Time			
		22:00 to 23:00	45.2	60.0	52.1	70 dB(A)
		23:00 to 24:00	45.7	61.7	53.1	70 dB(A)
		00:00 to 01:00	42.8	56.6	49.2	70 dB(A)
	01:00 to 02:00	45.3	62.9	53.4	70 dB(A)	
	02:00 to 03:00	40.1	54.4	46.7	70 dB(A)	
	03:00 to 04:00	46.0	60.0	52.5	70 dB(A)	
	04:00 to 05:00	46.6	54.6	50.4	70 dB(A)	
	05:00 to 06:00	42.8	58.4	50.0	70 dB(A)	
	Avg	44.3	58.6	50.9	70 dB(A)	



Shivashankaraiah H M
Authorized Signatory
Shivashankaraiah H M

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SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT

AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N3- Core Zone - (Governor Point)
6. Date of Sampling : 13.05.2026, 6.00AM to 14.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
3.	06:00 to 07:00 Hrs.	59.4	65.6	71.7	
	07:00 to 08:00 Hrs.	57.5	64.6	71.6	
	08:00 to 09:00 Hrs.	56.4	62.8	69.2	
	09:00 to 10:00 Hrs.	58.8	63.0	67.2	
	10:00 to 11:00 Hrs.	57.6	64.2	70.8	
	11:00 to 12:00 Hrs.	61.4	65.6	69.8	
	12:00 to 13:00 Hrs.	57.1	61.7	66.3	
	13:00 to 14:00 Hrs.	58.1	63.9	69.6	
	14:00 to 15:00 Hrs.	55.6	63.1	70.6	
	15:00 to 16:00 Hrs.	57.8	64.2	70.6	
	16:00 to 17:00 Hrs.	60.2	64.0	67.8	
	17:00 to 18:00 Hrs.	58.3	66.4	74.5	
	18:00 to 19:00 Hrs.	58.7	67.0	75.3	
	19:00 to 20:00 Hrs.	60.1	65.5	70.9	
	20:00 to 21:00 Hrs.	61.1	67.2	73.3	
	21:00 to 22:00 Hrs.	58.6	66.6	74.5	
	Avg.	58.5	64.7	70.8	
			Night Time		
		22:00 to 23:00 Hrs.	46.7	52.6	58.5
		23:00 to 24:00 Hrs.	47.3	53.7	60.1
		00:00 to 01:00 Hrs.	44.2	49.7	55.2
	01:00 to 02:00 Hrs.	47.1	54.1	61.1	
	02:00 to 03:00 Hrs.	41.5	47.3	53.0	
	03:00 to 04:00 Hrs.	47.4	53.0	58.6	
	04:00 to 05:00 Hrs.	47.4	50.6	53.8	
	05:00 to 06:00 Hrs.	44.4	50.6	56.8	
	Avg	45.7	51.4	57.1	


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SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environmental Laboratory]
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TC-13543

TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N4- Core Zone-(Neerlabbi)
6. Date of Sampling : 13.05.2026, 6.00AM to 14.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. ULR Number : TC13543260000633F
10. Test Report Number : STLPL/SMIORL/AN/2026/05/633
11. Lab Code : 9368/04
12. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards	
		Day Time				
		MIN	MAX	LEQ		
4.	06:00 to 07:00	39.3	56.2	47.0	55 dB(A)	
	07:00 to 08:00	42.2	56.6	48.9	55 dB(A)	
	08:00 to 09:00	41.6	53.5	47.2	55 dB(A)	
	09:00 to 10:00	42.8	55.5	48.7	55 dB(A)	
	10:00 to 11:00	41.5	53.5	47.1	55 dB(A)	
	11:00 to 12:00	40.7	55.5	47.5	55 dB(A)	
	12:00 to 13:00	44.2	52.9	48.4	55 dB(A)	
	13:00 to 14:00	41.9	56.2	48.5	55 dB(A)	
	14:00 to 15:00	41.6	55.0	47.8	55 dB(A)	
	15:00 to 16:00	43.3	54.7	48.7	55 dB(A)	
	16:00 to 17:00	43.1	55.8	49.0	55 dB(A)	
	17:00 to 18:00	41.2	57.9	48.8	55 dB(A)	
	18:00 to 19:00	39.6	53.4	46.0	55 dB(A)	
	19:00 to 20:00	42.9	56.4	49.2	55 dB(A)	
	20:00 to 21:00	43.8	56.0	49.5	55 dB(A)	
	21:00 to 22:00	41.2	53.1	46.8	55 dB(A)	
		Avg.	41.9	55.1	48.1	55 dB(A)
			Night Time			
		22:00 to 23:00	36.0	47.7	41.4	45 dB(A)
		23:00 to 24:00	37.5	51.1	43.8	45 dB(A)
	00:00 to 01:00	36.9	48.0	42.1	45 dB(A)	
	01:00 to 02:00	36.3	47.2	41.4	45 dB(A)	
	02:00 to 03:00	36.8	49.7	42.8	45 dB(A)	
	03:00 to 04:00	36.2	45.6	40.6	45 dB(A)	
	04:00 to 05:00	35.7	47.7	41.3	45 dB(A)	
	05:00 to 06:00	35.2	46.5	40.5	45 dB(A)	
	Avg	36.3	47.9	41.7	45 dB(A)	



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SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N4- Core Zone-(Neerlabbi)
6. Date of Sampling : 13.05.2026, 6.00AM to 14.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633.
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		<u>Day Time</u>			
		L10	L50	L90	
4.	06:00 to 07:00 Hrs.	41.0	47.8	55.3	
	07:00 to 08:00 Hrs.	43.6	49.4	55.8	
	08:00 to 09:00 Hrs.	42.8	47.6	52.9	
	09:00 to 10:00 Hrs.	44.1	49.2	54.8	
	10:00 to 11:00 Hrs.	42.7	47.5	52.9	
	11:00 to 12:00 Hrs.	42.2	48.1	54.7	
	12:00 to 13:00 Hrs.	45.1	48.6	52.4	
	13:00 to 14:00 Hrs.	43.3	49.1	55.4	
	14:00 to 15:00 Hrs.	42.9	48.3	54.3	
	15:00 to 16:00 Hrs.	44.4	49.0	54.1	
	16:00 to 17:00 Hrs.	44.4	49.5	55.1	
	17:00 to 18:00 Hrs.	42.9	49.6	57.0	
	18:00 to 19:00 Hrs.	41.0	46.5	52.7	
	19:00 to 20:00 Hrs.	44.3	49.7	55.7	
	20:00 to 21:00 Hrs.	45.0	49.9	55.4	
	21:00 to 22:00 Hrs.	42.4	47.2	52.5	
	Avg.				
			<u>Night Time</u>		
		22:00 to 23:00 Hrs.	37.2	41.9	47.1
		23:00 to 24:00 Hrs.	38.9	44.3	50.4
		00:00 to 01:00 Hrs.	38.0	42.5	47.4
	01:00 to 02:00 Hrs.	37.4	41.8	46.6	
	02:00 to 03:00 Hrs.	38.1	43.3	49.0	
	03:00 to 04:00 Hrs.	37.1	40.9	45.1	
	04:00 to 05:00 Hrs.	36.9	41.7	47.1	
	05:00 to 06:00 Hrs.	36.3	40.9	45.9	
Avg		37.5	42.1	47.3	


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SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N5-Ramghad village
6. Date of Sampling : 18.05.2026, 6.00AM to 19.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
5.	06:00 to 07:00 Hrs.	42.6	47.6	52.5	
	07:00 to 08:00 Hrs.	45.5	49.5	53.5	
	08:00 to 09:00 Hrs.	46.5	49.7	52.8	
	09:00 to 10:00 Hrs.	46.1	50.3	54.5	
	10:00 to 11:00 Hrs.	46.6	50.2	53.8	
	11:00 to 12:00 Hrs.	45.7	50.3	54.9	
	12:00 to 13:00 Hrs.	44.6	49.6	54.5	
	13:00 to 14:00 Hrs.	47.0	51.2	55.3	
	14:00 to 15:00 Hrs.	47.1	51.3	55.5	
	15:00 to 16:00 Hrs.	47.8	51.0	54.1	
	16:00 to 17:00 Hrs.	48.4	52.5	56.5	
	17:00 to 18:00 Hrs.	48.0	53.4	58.7	
	18:00 to 19:00 Hrs.	44.4	48.2	52.0	
	19:00 to 20:00 Hrs.	48.9	52.7	56.5	
	20:00 to 21:00 Hrs.	47.8	51.5	55.2	
	21:00 to 22:00 Hrs.	44.4	48.6	52.7	
		Avg.	46.3	50.4	54.5
			Night Time		
		22:00 to 23:00 Hrs.	38.0	42.1	46.1
		23:00 to 24:00 Hrs.	40.4	44.2	48.0
		00:00 to 01:00 Hrs.	41.5	44.6	47.6
	01:00 to 02:00 Hrs.	39.2	42.1	45.0	
	02:00 to 03:00 Hrs.	41.7	45.7	49.7	
	03:00 to 04:00 Hrs.	38.9	41.4	43.8	
	04:00 to 05:00 Hrs.	37.6	41.1	44.6	
	05:00 to 06:00 Hrs.	36.0	40.0	44.0	
	Avg	39.2	42.6	46.1	




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SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environmental Laboratory]
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TC-13543

TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N6-Dharmapura Village
6. Date of Sampling : 18.05.2026, 6.00AM to 19.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. ULR Number : TC135432600000633F
10. Test Report Number : STLPL/SMIORL/AN/2026/05/633
11. Lab Code : 9368/06
12. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards	
		Day Time				
		MIN	MAX	LEQ		
6.	06:00 to 07:00	47.1	58.0	52.3	55 dB(A)	
	07:00 to 08:00	48.0	60.2	53.8	55 dB(A)	
	08:00 to 09:00	43.3	58.0	50.1	55 dB(A)	
	09:00 to 10:00	46.2	53.7	49.8	55 dB(A)	
	10:00 to 11:00	41.7	54.4	47.6	55 dB(A)	
	11:00 to 12:00	44.8	59.1	51.5	55 dB(A)	
	12:00 to 13:00	43.1	48.6	45.8	55 dB(A)	
	13:00 to 14:00	46.2	53.7	49.8	55 dB(A)	
	14:00 to 15:00	47.5	56.0	51.6	55 dB(A)	
	15:00 to 16:00	48.2	57.5	52.6	55 dB(A)	
	16:00 to 17:00	49.1	60.0	54.3	55 dB(A)	
	17:00 to 18:00	50.8	54.4	52.6	55 dB(A)	
	18:00 to 19:00	39.5	55.5	46.8	55 dB(A)	
	19:00 to 20:00	40.8	55.4	47.5	55 dB(A)	
	20:00 to 21:00	41.7	52.2	46.7	55 dB(A)	
	21:00 to 22:00	49.1	58.6	53.6	55 dB(A)	
	Avg.		45.4	56.0	50.4	55 dB(A)
			Night Time			
		22:00 to 23:00	41.5	54.6	47.6	45 dB(A)
		23:00 to 24:00	42.8	55.5	48.7	45 dB(A)
		00:00 to 01:00	43.5	56.6	49.6	45 dB(A)
	01:00 to 02:00	46.2	58.7	52.1	45 dB(A)	
	02:00 to 03:00	45.7	59.0	51.9	45 dB(A)	
	03:00 to 04:00	42.6	55.7	48.7	45 dB(A)	
	04:00 to 05:00	41.5	56.6	48.5	45 dB(A)	
	05:00 to 06:00	42.6	55.7	48.7	45 dB(A)	
	Avg	43.3	56.6	49.5	45 dB(A)	



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SUMS TECHNO LABS PRIVATE LIMITED

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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N6-Dharmapura Village
6. Date of Sampling : 18.05.2026, 6.00AM to 19.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
6.	06:00 to 07:00 Hrs.	48.2	52.6	56.9	
	07:00 to 08:00 Hrs.	49.2	54.1	59.0	
	08:00 to 09:00 Hrs.	44.8	50.7	56.5	
	09:00 to 10:00 Hrs.	47.0	50.0	53.0	
	10:00 to 11:00 Hrs.	43.0	48.1	53.1	
	11:00 to 12:00 Hrs.	46.2	52.0	57.7	
	12:00 to 13:00 Hrs.	43.7	45.9	48.1	
	13:00 to 14:00 Hrs.	47.0	50.0	53.0	
	14:00 to 15:00 Hrs.	48.4	51.8	55.2	
	15:00 to 16:00 Hrs.	49.1	52.9	56.6	
	16:00 to 17:00 Hrs.	50.2	54.6	58.9	
	17:00 to 18:00 Hrs.	51.2	52.6	54.0	
	18:00 to 19:00 Hrs.	41.1	47.5	53.9	
	19:00 to 20:00 Hrs.	42.3	48.1	53.9	
	20:00 to 21:00 Hrs.	42.8	47.0	51.2	
	21:00 to 22:00 Hrs.	50.1	53.9	57.7	
	Avg.	46.5	50.7	54.9	
			Night Time		
		22:00 to 23:00 Hrs.	42.8	48.1	53.3
		23:00 to 24:00 Hrs.	44.1	49.2	54.2
		00:00 to 01:00 Hrs.	44.8	50.1	55.3
	01:00 to 02:00 Hrs.	47.5	52.5	57.5	
	02:00 to 03:00 Hrs.	47.0	52.4	57.7	
	03:00 to 04:00 Hrs.	43.9	49.2	54.4	
	04:00 to 05:00 Hrs.	43.0	49.1	55.1	
	05:00 to 06:00 Hrs.	43.9	49.2	54.4	
	Avg	44.6	49.9	55.2	



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SUMS TECHNO LABS PRIVATE LIMITED

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TC-13543

TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N7-Garaga village
6. Date of Sampling : 18.05.2026, 6.00AM to 19.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. ULR Number : TC135432600000633F
10. Test Report Number : STLPL/SMIORL/AN/2026/05/633
11. Lab Code : 9368/07
12. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards	
		Day Time				
		MIN	MAX	LEQ		
7.	06:00 to 07:00	40.3	59.6	49.0	55 dB(A)	
	07:00 to 08:00	38.0	58.7	47.2	55 dB(A)	
	08:00 to 09:00	39.6	61.2	49.2	55 dB(A)	
	09:00 to 10:00	47.0	60.4	53.3	55 dB(A)	
	10:00 to 11:00	46.1	58.5	51.9	55 dB(A)	
	11:00 to 12:00	41.7	59.1	49.6	55 dB(A)	
	12:00 to 13:00	39.4	54.7	46.4	55 dB(A)	
	13:00 to 14:00	40.7	57.1	48.2	55 dB(A)	
	14:00 to 15:00	42.5	53.7	47.8	55 dB(A)	
	15:00 to 16:00	43.4	59.1	50.6	55 dB(A)	
	16:00 to 17:00	39.6	57.7	47.8	55 dB(A)	
	17:00 to 18:00	42.5	57.1	49.3	55 dB(A)	
	18:00 to 19:00	39.4	54.7	46.4	55 dB(A)	
	19:00 to 20:00	41.5	59.1	49.5	55 dB(A)	
	20:00 to 21:00	39.0	54.4	46.1	55 dB(A)	
	21:00 to 22:00	36.5	56.4	45.4	55 dB(A)	
	Avg.	41.1	57.6	48.6	55 dB(A)	
		Night Time				
		22:00 to 23:00	35.2	48.2	41.2	45 dB(A)
		23:00 to 24:00	38.0	47.0	42.3	45 dB(A)
		00:00 to 01:00	39.6	50.5	44.7	45 dB(A)
	01:00 to 02:00	38.3	45.7	41.8	45 dB(A)	
	02:00 to 03:00	35.0	46.6	40.4	45 dB(A)	
	03:00 to 04:00	36.4	48.2	41.9	45 dB(A)	
	04:00 to 05:00	38.3	45.9	41.9	45 dB(A)	
	05:00 to 06:00	38.3	50.0	43.8	45 dB(A)	
	Avg	37.4	47.8	42.2	45 dB(A)	

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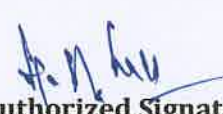
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TEST REPORT

AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N7-Garaga village
6. Date of Sampling : 18.05.2026, 6.00AM to 19.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
7.	06:00 to 07:00 Hrs.	42.2	50.0	57.7	
	07:00 to 08:00 Hrs.	40.1	48.4	56.6	
	08:00 to 09:00 Hrs.	41.8	50.4	59.0	
	09:00 to 10:00 Hrs.	48.3	53.7	59.1	
	10:00 to 11:00 Hrs.	47.3	52.3	57.3	
	11:00 to 12:00 Hrs.	43.4	50.4	57.4	
	12:00 to 13:00 Hrs.	40.9	47.1	53.2	
	13:00 to 14:00 Hrs.	42.3	48.9	55.5	
	14:00 to 15:00 Hrs.	43.6	48.1	52.6	
	15:00 to 16:00 Hrs.	45.0	51.3	57.5	
	16:00 to 17:00 Hrs.	41.4	48.7	55.9	
	17:00 to 18:00 Hrs.	44.0	49.8	55.6	
	18:00 to 19:00 Hrs.	40.9	47.1	53.2	
	19:00 to 20:00 Hrs.	43.3	50.3	57.3	
	20:00 to 21:00 Hrs.	40.5	46.7	52.9	
	21:00 to 22:00 Hrs.	38.5	46.5	54.4	
	Avg.	42.7	49.3	55.9	
			Night Time		
		22:00 to 23:00 Hrs.	36.5	41.7	46.9
		23:00 to 24:00 Hrs.	38.9	42.5	46.1
		00:00 to 01:00 Hrs.	40.7	45.1	49.4
	01:00 to 02:00 Hrs.	39.0	42.0	45.0	
	02:00 to 03:00 Hrs.	36.2	40.8	45.4	
	03:00 to 04:00 Hrs.	37.6	42.3	47.0	
	04:00 to 05:00 Hrs.	39.1	42.1	45.1	
	05:00 to 06:00 Hrs.	39.5	44.2	48.8	
	Avg	38.4	42.6	46.7	


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SUMS TECHNO LABS PRIVATE LIMITED

[Analytical & Environmental Laboratory]
NABL Accredited Laboratory Cert No. TC-13543
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TC-13543

TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N8-Yeshwanthanagar village
6. Date of Sampling : 19.05.2026, 6.00AM to 20.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. ULR Number : TC135432600000633F
10. Test Report Number : STLPL/SMIORL/AN/2026/05/633
11. Lab Code : 9368/08
12. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards	
		Day Time				
		MIN	MAX	LEQ		
8.	06:00 to 07:00	43.4	56.2	49.4	55 dB(A)	
	07:00 to 08:00	39.3	56.0	46.9	55 dB(A)	
	08:00 to 09:00	42.2	53.5	47.5	55 dB(A)	
	09:00 to 10:00	42.1	55.9	48.5	55 dB(A)	
	10:00 to 11:00	41.9	55.0	48.0	55 dB(A)	
	11:00 to 12:00	42.5	53.9	47.9	55 dB(A)	
	12:00 to 13:00	40.9	52.7	46.4	55 dB(A)	
	13:00 to 14:00	41.6	55.7	48.1	55 dB(A)	
	14:00 to 15:00	40.3	53.4	46.4	55 dB(A)	
	15:00 to 16:00	42.9	53.1	47.7	55 dB(A)	
	16:00 to 17:00	41.1	54.4	47.3	55 dB(A)	
	17:00 to 18:00	39.5	56.3	47.2	55 dB(A)	
	18:00 to 19:00	43.1	55.4	48.9	55 dB(A)	
	19:00 to 20:00	40.2	53.2	46.2	55 dB(A)	
	20:00 to 21:00	41.6	56.5	48.5	55 dB(A)	
	21:00 to 22:00	40.7	53.3	46.6	55 dB(A)	
	Avg.		41.5	54.7	47.6	55 dB(A)
			Night Time			
		22:00 to 23:00	35.6	47.2	41.0	45 dB(A)
		23:00 to 24:00	34.4	46.0	39.8	45 dB(A)
		00:00 to 01:00	39.1	48.1	43.4	45 dB(A)
	01:00 to 02:00	35.5	46.6	40.7	45 dB(A)	
	02:00 to 03:00	37.6	47.5	42.3	45 dB(A)	
	03:00 to 04:00	33.7	48.0	40.2	45 dB(A)	
	04:00 to 05:00	35.5	46.4	40.6	45 dB(A)	
	05:00 to 06:00	37.4	45.3	41.2	45 dB(A)	
	Avg	36.1	46.9	41.1	45 dB(A)	



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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N8-Yeshwanthanagar village
6. Date of Sampling : 19.05.2026, 6.00AM to 20.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
8.	06:00 to 07:00 Hrs.	44.7	49.8	55.5	
	07:00 to 08:00 Hrs.	41.0	47.7	55.1	
	08:00 to 09:00 Hrs.	43.3	47.9	52.9	
	09:00 to 10:00 Hrs.	43.5	49.0	55.2	
	10:00 to 11:00 Hrs.	43.2	48.5	54.3	
	11:00 to 12:00 Hrs.	43.6	48.2	53.3	
	12:00 to 13:00 Hrs.	42.1	46.8	52.1	
	13:00 to 14:00 Hrs.	43.0	48.7	54.9	
	14:00 to 15:00 Hrs.	41.6	46.9	52.7	
	15:00 to 16:00 Hrs.	43.9	48.0	52.6	
	16:00 to 17:00 Hrs.	42.4	47.8	53.7	
	17:00 to 18:00 Hrs.	41.2	47.9	55.4	
	18:00 to 19:00 Hrs.	44.3	49.3	54.7	
	19:00 to 20:00 Hrs.	41.5	46.7	52.5	
	20:00 to 21:00 Hrs.	43.1	49.1	55.7	
	21:00 to 22:00 Hrs.	42.0	47.0	52.6	
	Avg.		42.8	48.1	53.9
			Night Time		
		22:00 to 23:00 Hrs.	36.8	41.4	46.6
		23:00 to 24:00 Hrs.	35.6	40.2	45.4
		00:00 to 01:00 Hrs.	40.0	43.6	47.6
	01:00 to 02:00 Hrs.	36.6	41.1	46.0	
	02:00 to 03:00 Hrs.	38.6	42.6	47.0	
	03:00 to 04:00 Hrs.	35.1	40.9	47.2	
	04:00 to 05:00 Hrs.	36.6	41.0	45.8	
	05:00 to 06:00 Hrs.	38.2	41.4	44.9	
	Avg	37.2	41.5	46.3	



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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 109 (ID No- SUMSTLPL/NOISE/ENT/01),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N9-Subbarayanahalli village
6. Date of Sampling : 22.05.2026, 6.00AM to 23.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
9.	06:00 to 07:00 Hrs.	44.9	48.9	53.4	
	07:00 to 08:00 Hrs.	46.9	50.6	54.6	
	08:00 to 09:00 Hrs.	45.2	49.2	53.6	
	09:00 to 10:00 Hrs.	45.6	51.2	57.4	
	10:00 to 11:00 Hrs.	46.3	50.1	54.4	
	11:00 to 12:00 Hrs.	45.2	49.2	53.6	
	12:00 to 13:00 Hrs.	44.7	48.9	53.5	
	13:00 to 14:00 Hrs.	44.9	47.9	51.1	
	14:00 to 15:00 Hrs.	46.2	48.6	51.2	
	15:00 to 16:00 Hrs.	46.8	49.4	52.2	
	16:00 to 17:00 Hrs.	44.6	51.2	58.4	
	17:00 to 18:00 Hrs.	40.3	48.7	58.0	
	18:00 to 19:00 Hrs.	45.8	48.8	52.1	
	19:00 to 20:00 Hrs.	45.6	49.7	54.2	
	20:00 to 21:00 Hrs.	41.7	46.8	52.4	
	21:00 to 22:00 Hrs.	40.3	48.4	57.4	
		Avg.	44.7	49.2	54.2
			Night Time		
		22:00 to 23:00 Hrs.	37.7	43.4	49.7
		23:00 to 24:00 Hrs.	36.7	43.7	51.4
		00:00 to 01:00 Hrs.	37.6	43.7	50.5
	01:00 to 02:00 Hrs.	34.8	41.4	48.7	
	02:00 to 03:00 Hrs.	32.4	41.7	52.0	
	03:00 to 04:00 Hrs.	35.6	41.8	48.7	
	04:00 to 05:00 Hrs.	36.4	41.8	47.8	
	05:00 to 06:00 Hrs.	36.7	44.1	52.2	
	Avg	36.0	42.7	50.1	



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TEST REPORT AMBIENT NOISE LEVEL

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : Envirotech SLM 100 (ID No- SUMSTLPL/NOISE/ENT/02),
4. Sampling Method : IS: 9989:1981
5. Sampling Location : N10-Siddapura village
6. Date of Sampling : 22.05.2026, 6.00AM to 23.05.2026, 6.00AM
7. Discipline : Chemical
8. Product group : Atmospheric Pollution
9. Test Report Number : STLPL/SMIORL/AN/2026/05/633
10. Report Issued Date : 02.06.2026

Sl. No.	Time Frequency	Parameters in dB(A)			
		Day Time			
		L10	L50	L90	
10.	06:00 to 07:00 Hrs.	42.9	47.9	53.3	
	07:00 to 08:00 Hrs.	44.2	48.8	53.8	
	08:00 to 09:00 Hrs.	45.6	50.2	55.3	
	09:00 to 10:00 Hrs.	48.2	50.7	53.4	
	10:00 to 11:00 Hrs.	43.5	48.1	53.3	
	11:00 to 12:00 Hrs.	47.1	53.4	60.4	
	12:00 to 13:00 Hrs.	47.7	51.1	54.8	
	13:00 to 14:00 Hrs.	43.8	52.0	61.2	
	14:00 to 15:00 Hrs.	45.6	49.4	53.5	
	15:00 to 16:00 Hrs.	48.9	52.6	56.6	
	16:00 to 17:00 Hrs.	43.9	49.6	55.8	
	17:00 to 18:00 Hrs.	46.2	51.6	57.6	
	18:00 to 19:00 Hrs.	50.9	53.8	56.9	
	19:00 to 20:00 Hrs.	42.9	49.6	57.0	
	20:00 to 21:00 Hrs.	45.5	48.9	52.7	
	21:00 to 22:00 Hrs.	45.6	48.1	50.9	
	Avg.	45.8	50.3	55.4	
			Night Time		
		22:00 to 23:00 Hrs.	39.0	43.4	48.3
		23:00 to 24:00 Hrs.	37.6	42.1	47.1
	00:00 to 01:00 Hrs.	37.3	42.4	48.0	
	01:00 to 02:00 Hrs.	38.8	41.9	45.3	
	02:00 to 03:00 Hrs.	38.5	43.0	48.0	
	03:00 to 04:00 Hrs.	35.7	39.3	43.3	
	04:00 to 05:00 Hrs.	35.6	40.7	46.3	
	05:00 to 06:00 Hrs.	39.2	43.5	48.2	
Avg	37.7	42.0	46.8		



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TC-13543

TEST REPORT SOURCE NOISE LEVEL DATA

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Equipment's ID : SUMSTLPL/NOISE/ENT/01
4. Sampling Method : IS: 9989:1981
5. Discipline : Chemical
6. Group : Atmospheric Pollution
7. ULR : TC13543260000633F
8. Test Report Number : STLPL/SMIORL/AN/2026/05/633
9. Report Issued Date : 02.06.2026

Sl. No	Sample Location	Lab code	Date of Sampling	Date of Receipt	Time Frequency	Parameters in dB(A)			KSPCB (LEQ) Standards
						Min.	Max.	LEQ	
1	Near Drilling	9368/11	13.05.2026	14.05.2026	10:25 AM to 10:40 AM	60.4	70.6	65.3	75 dB(A)
2	Crushing & Screening	9368/12	13.05.2026	14.05.2026	11:15 AM to 11:30 AM	58.2	69.5	63.6	75 dB(A)
3	Loading Area	9368/13	13.05.2026	14.05.2026	01:25 PM to 01:40 PM	57.3	68.2	62.5	75 dB(A)
4	Near Excavator	9368/14	13.05.2026	14.05.2026	02:15 PM to 02:30 PM	59.5	70.1	64.6	75 dB(A)
5	Near Wheel Loader	9368/15	13.05.2026	14.05.2026	03:35 PM to 03:50 PM	56.4	68.3	62.1	75 dB(A)



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Shivashankaraiah.H.M
Technical Manager

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TEST REPORT

DUST FALL MEASUREMENTS

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Client and Address : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Location : Mine Office Area
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Date of Sample Collection : 01.05.2026 to 28.05.2026
6. Date of Sample Receipt: : 29.05.2026
7. Date of Analysis: : 29.05.2026
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Test Report Number : STLPL/ SMIORL /DF/2026/05/506/1
11. Lab Code : 9493/16/A
12. Report Issued Date : 02.06.2026

Sl. No	Parameters	Protocol	Unit	Result
1	Insoluble Particle Fallout Rate	IS 5182 (P1):2006; RA 2018	g/m ² day	0.0104
2.	Soluble particle fallout rate	IS 5182 (P1):2006; RA 2018	g/m ² day	0.1012
3.	Total particle fallout rate	IS 5182 (P1):2006; RA 2018	g/m ² day	0.1116

Anand

Analysed by

Anand N

Environment Engineer

Shivashankaraiah.H.M

Authorized Signatory

Shivashankaraiah.H.M

Technical Manager

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TEST REPORT

DUST FALL MEASUREMENTS

1. Name of the Project and Address : Ramghad Manganese & Iron Ore Mine (Mining Lease No. 2679) The Sandur Manganese & Iron Ores Limited, Ramghad Village, Sandur Taluk, Ballari District, Karnataka.
2. Name of the Client and Address : SUMS Techno Labs Private Limited, Hosapete
3. Sampling Location : Near Crusher
4. Sample Collected By : SUMS Techno Labs Private Limited, Hosapete
5. Date of Sample Collection : 01.05.2026 to 28.05.2026
6. Date of Sample Receipt: : 29.05.2026
7. Date of Analysis: : 29.05.2026
8. Discipline : Chemical
9. Group : Atmospheric Pollution
10. Test Report Number : STLPL/ SMIORL /DF/2026/04/506/1
11. Lab Code : 9493/16/B
12. Report Issued Date : 02.06.2026

Sl. No	Parameters	Protocol	Unit	Result
1.	Insoluble Particle Fallout Rate	IS 5182 (P1):2006; RA 2018	g/m ² day	0.0135
2	Soluble particle fallout rate	IS 5182 (P1):2006; RA 2018	g/m ² day	0.1319
3.	Total particle fallout rate	IS 5182 (P1):2006; RA 2018	g/m ² day	0.1454

Anand
Analysed by

Anand N
Environment Engineer



Shivashankaraiah.H.M
Authorized Signatory

Shivashankaraiah.H.M
Technical Manager

Terms and conditions:

1. The test report shall not be reproduced in full or part without the written approval of SUMS Techno Labs.
2. Ores and minerals, Coal & Coke, and Soil samples shall be retained for a maximum period of three months from the issue of the test report.
3. Water samples will be retained 15 days from the date of issue of the test report.
4. The test results relate only to the items tested as received.
5. The testing activities are performed in permanent facility located at Hosapete.

*** End of The Report***