

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
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CORPORATE OFFICE

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Bellary Road, Sadashivanagar
Bengaluru - 560 080
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Tel: +91 80 4152 0176 - 79 / 4547 3000
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No: SMIORE/Mn/040325/2679/1576

04 March 2025

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

Dear Sir,

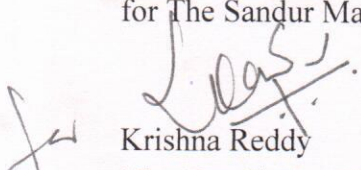
Sub: Submission of reports pertaining to monitoring of environmental parameters for the month of February 2025 in respect of Mining Lease No. 2679.

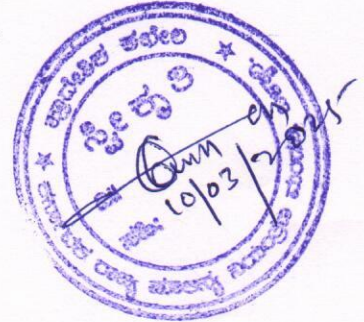
Ref: 1. EC Identification No. EC24B0000KA5391575N dated 01 September 2024.
2. Consent for Operation No. AW-337273 dated 10 April 2023.

With reference to the letter cited above, we are enclosing herewith environmental monitoring reports from NABET accredited and MoEFCC empaneled laboratory M/s Mineral Engineering Services as per stipulated environmental parameters in Environmental Clearance and Consent for Operation-Expansion for the month of February 2025 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,


Krishna Reddy
Vice President - Mines



Encl: Monitoring Reports

ENVIRONMENTAL MONITORING REPORT

February, 2025

**Project : Ramgad Manganese Ore Mine
ML No. 2679**

**Ramgad Village, Sandur Taluk,
Ballari Dist., Karnataka.**

Lessee

The Sandur Manganese & Iron Ores Limited

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

(Accredited by NABL &, MOEF&CC Under E(P) 1986)

#948, 2nd Cross, Kammanahalli Main Road,

St Thomas Town Post, Bangalore- 560 084, Karnataka,

LIST OF TABLES

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

TEST REPORT

Table No.1

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A1, Core Zone (ML Area)						
Duration : 24 Hrs						
Issue date : 03.03.2025						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0114	10	12	52	31	0.24
04.02.2025	N/25/02/1-0161	12	18	60	29	0.25
14.02.2025	N/25/02/3-0201	11	12	55	27	0.36
15.02.2025	N/25/02/3-0249	9	12	49	28	0.42
17.02.2025	N/25/02/5-0016	12	18	50	28	0.25
18.02.2025	N/25/02/5-0052	9	12	46	25	0.21
26.02.2025	N/25/03/1-0001	10	16	53	32	0.36
27.02.2025	N/25/03/1-0024	9	12	45	26	0.44
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No.2

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A2, Core Zone (Myadara Banda Block)						
Duration : 24 Hrs						
Issue date : 03.03.2025						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0116	7	11	40	22	0.32
04.02.2025	N/25/02/1-0163	10	16	39	19	0.25
14.02.2025	N/25/02/3-0203	9	12	48	25	0.44
15.02.2025	N/25/02/3-0251	11	13	37	22	0.35
17.02.2025	N/25/02/5-0018	8	14	53	28	0.26
18.02.2025	N/25/02/5-0054	9	14	49	25	0.42
26.02.2025	N/25/03/1-0003	12	13	51	28	0.22
27.02.2025	N/25/03/1-0026	8	14	44	27	0.25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.3

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited Name of the Project : Mining Lease No. 2679 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP) Station at & Code : A3, Core Zone (Governor Point) Duration : 24 Hrs Issue date : 03.03.2025 Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0117	9	15	49	29	0.32
04.02.2025	N/25/02/1-0164	7	10	50	31	0.29
14.02.2025	N/25/02/3-0204	10	13	55	33	0.26
15.02.2025	N/25/02/3-0252	8	15	45	31	0.20
17.02.2025	N/25/02/5-0019	7	13	50	27	0.22
18.02.2025	N/25/02/5-0055	9	10	42	25	0.32
26.02.2025	N/25/03/1-0004	8	12	48	22	0.42
27.02.2025	N/25/03/1-0027	10	19	63	35	0.25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.4

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A4, Core Zone (Neerlabi)						
Duration : 24 Hrs						
Issue date : 03.03.2025						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0118	7	9	56	32	0.33
04.02.2025	N/25/02/1-0165	10	12	51	30	0.42
14.02.2025	N/25/02/3-0205	7	18	46	18	0.25
15.02.2025	N/25/02/3-0253	10	11	40	19	0.31
17.02.2025	N/25/02/5-0020	7	12	50	32	0.22
18.02.2025	N/25/02/5-0056	12	15	54	34	0.25
26.02.2025	N/25/03/1-0005	10	18	46	28	0.22
27.02.2025	N/25/03/1-0028	10	14	56	33	0.32
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.5

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A5, Ramghad village						
Duration : 24 Hrs						
Issue date : 03.03.2025						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0119	11	16	46	23	0.26
04.02.2025	N/25/02/1-0166	13	15	53	28	0.25
14.02.2025	N/25/02/3-0206	10	13	55	30	0.23
15.02.2025	N/25/02/3-0254	7	12	47	25	0.22
17.02.2025	N/25/02/5-0021	13	15	50	26	0.28
18.02.2025	N/25/02/5-0057	8	11	49	34	0.24
26.02.2025	N/25/03/1-0006	12	16	53	27	0.36
27.02.2025	N/25/03/1-0029	10	18	58	30	0.42
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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Table No.6

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A6, Dharmapura village						
Duration : 24 Hrs						
Issue date : 03.03.2025						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0120	11	14	56	30	0.28
04.02.2025	N/25/02/1-0167	9	10	50	26	0.42
14.02.2025	N/25/02/3-0207	9	11	54	28	0.33
15.02.2025	N/25/02/3-0255	8	14	46	25	0.25
17.02.2025	N/25/02/5-0022	12	13	30	22	0.46
18.02.2025	N/25/02/5-0058	11	15	44	25	0.42
26.02.2025	N/25/03/1-0007	10	14	50	29	0.24
27.02.2025	N/25/03/1-0030	11	18	55	30	0.36
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.7

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A7, Garaga village						
Duration : 24 Hrs						
Issue date : 03.03.2025						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0121	10	10	48	25	0.22
04.02.2025	N/25/02/1-0168	11	15	40	22	0.25
14.02.2025	N/25/02/3-0208	12	16	52	28	0.42
15.02.2025	N/25/02/3-0256	11	13	50	29	0.36
17.02.2025	N/25/02/5-0023	9	10	45	23	0.21
18.02.2025	N/25/02/5-0059	10	11	35	21	0.22
26.02.2025	N/25/03/1-0008	9	12	50	26	0.32
27.02.2025	N/25/03/1-0031	8	10	40	22	0.25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.8

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2679
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
 Station at & Code : A8, Yeswanthanagar
 Duration : 24 Hrs
 Issue date : 03.03.2025
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0108	11	15	52	28	0.21
04.02.2025	N/25/02/1-0156	12	18	48	25	0.31
10.02.2025	N/25/02/3-0018	12	13	50	29	0.25
11.02.2025	N/25/02/3-0084	10	17	55	30	0.23
21.02.2025	N/25/02/5-0158	9	13	46	27	0.42
22.02.2025	N/25/02/5-0246	11	18	57	29	0.35
24.02.2025	N/25/02/5-0341	12	13	44	23	0.37
25.02.2025	N/25/02/5-0455	10	11	52	27	0.28
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.9

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A9, Subbarayanahalli						
Duration : 24 Hrs						
Issue date : 03.03.2025						
Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0104	7	9	56	32	0.42
04.02.2025	N/25/02/1-0152	10	12	43	25	0.25
10.02.2025	N/25/02/3-0014	14	18	58	32	0.33
11.02.2025	N/25/02/3-0080	10	11	40	19	0.24
21.02.2025	N/25/02/5-0154	12	15	46	22	0.45
22.02.2025	N/25/02/5-0242	10	12	53	27	0.40
24.02.2025	N/25/02/5-0337	12	16	56	29	0.30
25.02.2025	N/25/02/5-0451	10	14	45	26	0.25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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TEST REPORT

Table No.10

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited Name of the Project : Mining Lease No. 2679 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP) Station at & Code : A10, Siddapura village Duration : 24 Hrs Issue date : 03.03.2025 Reference IS 5182 & Lab SOP						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	Particulate Matter		Carbon Monoxide* (CO), mg/m ³
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	
03.02.2025	N/25/02/1-0115	10	11	54	30	0.20
04.02.2025	N/25/02/1-0162	15	22	63	34	0.25
14.02.2025	N/25/02/3-0202	10	15	50	28	0.47
15.02.2025	N/25/02/3-0250	13	16	53	28	0.24
17.02.2025	N/25/02/5-0017	10	12	55	25	0.36
18.02.2025	N/25/02/5-0053	10	14	58	31	0.42
26.02.2025	N/25/03/1-0002	9	11	42	24	0.45
27.02.2025	N/25/03/1-0025	11	13	48	25	0.24
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

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T.M. - Chemical

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TEST REPORT

Table No. 11

Fugitive Emission

Name of the Client : The Sandur Manganese & Iron Ores Limited			
Name of the Project : Mining Lease No. 2679			
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Duration : 08 Hrs			
Issue Date : 03.03.2025			
Station at & Code	Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Loading point	14.02.2025	N/25/02/3-0209	368
FA2, Dumping point	14.02.2025	N/25/02/3-0210	455
FA3, Haulage Road	14.02.2025	N/25/02/3-0211	488
FA4, Stack Yard	15.02.2025	N/25/02/3-0257	365
FA5, Drilling Point	15.02.2025	N/25/02/3-0258	496
FA6, Waste Dumping Point	15.02.2025	N/25/02/3-0259	465
Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment)			
			Particulate mater ($\mu\text{g}/\text{m}^3$)
Permissible limits for Fugitive Emissions			600 $\mu\text{g}/\text{m}^3$

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TEST REPORT

Table No. 12

Analysis Report of Dust Fall Measurement

1	Name of the Client	The Sandur Manganese & Iron Ores Limited
2	Name of the Project	Mining Lease No. 2679
3	Month	01.02.2025 to 28.02.2025
4	Sample Type	Total Dust Fall Rate
5	Duration of Monitoring	One Month
6	Issue Date	03.03.2025

Result

Code	Location	Result	unit	Reference Method
DF1	Mine Office Area	0.025	g/m ² month	IS 5182 (Part 01) : 2006
DF2	Near Crusher Area	0.035	g/m ² month	IS 5182 (Part 01) : 2006


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TEST REPORT

Table No. 13

AMBIENT NOISE LEVEL DATA

Report No : ELMES152502

Report No : LLMES15230

Name of the Client	: The Sandur Manganese & Iron Ores Limited						
Name of the Project	: Mining Lease No. 2679						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Date of monitoring	: 15.02.2025						
Issue Date	: 03.03.2025						
Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Corezone							
N1	Core zone ML Area	39.3	52.7	61.0	34.0	42.9	47.5
N2	Myadara Banda Block	36.0	48.2	54.2	35.0	40.6	43.6
N3	Goerner Point	38.0	53.6	59.3	33.8	42.0	47.8
N4	Neerlabbi	42.0	53.3	58.2	34.0	43.7	48.3
Buffer zone							
N5	Ramgad village	35.2	48.3	54.3	34.0	41.2	45.2
N6	Dharmapura	36.0	48.5	55.0	34.0	40.8	46.0
N7	Garaga village	34.2	46.8	52.2	33.0	37.9	43.2
N8	Yeshwanthanagar	36.0	50.5	55.6	34.0	40.9	47.0
N9	Subbarayanahalli	38.2	49.2	54.3	34.8	42.3	46.0
N10	Siddapura	38.5	50.6	57.2	35.0	43.2	47.2
<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u>							
Leq. Limit dB(A)							
DayNight							
Industrial areas7570							
Commercial area6555							
Residential area5545							

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TEST REPORT

Table No. 14

NOISE LEVEL DATA

Report No : ELMES162502

Name of the Client		: M/s. Sandur Manganese & Iron Ores Limited															
Name of the Project		: Mining Lease No. 2679															
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)															
Date of monitoring		: 15.02.2025															
Issue Date		: 03.03.2025															
Code No.	Monitoring stations	Day			Remarks												
		L _{min}	L _{eq}	L _{max}													
Source																	
N1	Loading Point	40.0	61.1	68.2	During operation												
N2	Dumping Point	42.3	67.6	76.5	During operation												
N3	Haulage Road	45.0	73.7	83.0	During operation												
Heavy Earth Moving Machineries																	
N4	Wheel Loader	44.0	79.4	84.2	During operation in side of the cabin												
		40.0	75.3	79.0	During operation 10mts outside of the cabin												
N5	Tata Hitachi 200LC	40.0	76.1	82.3	During operation in side of the cabin												
		38.0	71.9	77.2	During operation 10mts outside of the cabin												
Permissible limits as per ILO Code of Practice For Unprotected ear - 8 hrs working shift Warning limit - 85 dB(A) Danger limit - 90 dB(A) Worker not to be exposed for more than 115 dB(A) With ear protection - 130 dB(A) 'Impulse' or 120 dB(A) 'Fast' No entry when noise level exceeds 140 dB(A) Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) <table border="1"> <thead> <tr> <th></th> <th>Day</th> <th>Night</th> </tr> </thead> <tbody> <tr> <td>Industrial areas</td> <td>75</td> <td>70</td> </tr> <tr> <td>Commercial area</td> <td>65</td> <td>55</td> </tr> <tr> <td>Residential area</td> <td>55</td> <td>45</td> </tr> </tbody> </table>							Day	Night	Industrial areas	75	70	Commercial area	65	55	Residential area	55	45
	Day	Night															
Industrial areas	75	70															
Commercial area	65	55															
Residential area	55	45															

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TEST REPORT

Table No.15

Table No. 1

Name of the Client	: The Sandur Manganese & Iron Ores Limited						
Name of the Project	: Mining Lease No. 2679						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Particulars of sample collected	: SW1 - Ragavapura kere water, SW2 - Dhananayakana kere water						
	: SW3 - Narihalla Upstream water, SW4 - Narihalla Downstream water						
Date of sample collection	: 14.02.2025						
Issue Date	: 25.02.2025						
Ref:IS : 2296, Water Quality Standards							
Sample Code		SW1	SW2	SW3	SW4	Limits For Stream Water Standards	Method of Testing
Sl.No.	Lab Code	N/25/02/4-0001	N/25/02/4-0002	N/25/02/4-0003	N/25/02/4-0004		
	Parameters	Results					
1	pH	8.20	8.11	8.58	8.14	6.5 to 8.5	IS:3025(Part-11)2022
2	Colour (Hazen Units), Max	5	10	3	3	300	IS:3025(Part-4)2021
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	IS:3025 (P-5) 2018
4	Total Dissolved Solids (mg/l), Max	924	930	162	290	1500	IS:3025(Part-16)2023
5	Total Suspended Solids, mg/l	110	140	40	90	-	IS 3025 (P-17) 2022
6	Dissolved Oxygen (as O ₂), mg/l	5.1	5.1	5.5	5.4	Min 4	IS:3025(Part-38)1989RA 2019
7	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	<3.0	<3.0	<3.0	3	IS:3025(P-44) 2014
8	Oil & Greease, mg/l	<0.1	<0.1	<0.1	<0.1	0.1	IS:3025(Part 39)2021
9	Total Hardness (as CaCO ₃),mg/l,Max	380	390	96	150	-	IS:3025 (P-21):2009 RA 2019
10	Sulphates as SO ₄ (mg/l), Max	110	130	30.0	60	400	IS:3025(P-24)Sec 1 2022
11	Phosphates (as P), mg/l	<0.05	<0.05	<0.05	<0.05	-	IS 3025 (P-31) Sec 1 2022
12	Chloride (as Cl),mg/l, Max	280	285	20.0	55	600	IS:3025(Part-32) ;1988RA2019
13	Fluoride (as F),mg/l, Max	0.78	0.82	0.64	0.68	1.5	APHA 23rd Edition 4500F
14	Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	<0.01	<0.01	-	IS:3025 (P-29):1986 RA 2019
15	Boron (as B), mg/l, Max	<0.1	<0.1	<0.1	<0.1	-	IS:3025 (Part-57)2021
16	Iron (as Fe),mg/l, Max	<0.005	<0.005	<0.005	<0.005	50	IS:3025(P-2) 2019
17	Percent of Sodium (%)	46	24	22.00	30.00	-	IS 11624 .2009
18	Residual Sodium Carbonate (meq/l)	<0.05	<0.05	<0.05	<0.05	-	IS:2488 (P-5) 1976
19	Total Coliform, MPN/100ml	110	140	240	248	5000	IS:1622:1981

""END OF REPORT""

BINU MANI

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TEST REPORT

Table No. 16

Stack Monitoring Report

Report No.N026025023

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	RAMGAD MANGANESE & IRON ORE MINE (ML NO. 2679)
Location :	Mining Lease No. 2679
Stack ID & Capacity :	DG Set 35 KVA Ramgad-KK1 Mines
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Date of Collection :	15.02.2025
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	17.02.2025
Lab Code :	N/25/02/3-0260
Issue date :	20.02.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	125
4	Velocity (m/s)	7.22
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	324
7	Sample Condition When Received	Satisfactory
8	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
9	Serial No. of the Equipment	338 DTH 14
10	Calibration done on and due on	15.07.2025
11	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.092	<0.2
2	CO	g/Kw-hr	0.120	<3.5
3	Nox +HC	g/Kw-hr	0.157	<4.0

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

Table No. 17

Stack Monitoring Report

Report No. N026125023

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	RAMGAD MANGANESE & IRON ORE MINE (ML NO. 2679)
Location :	Mining Lease No. 2679
Stack ID & Capacity :	DG Set 20 KVA Ramgad Mines
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Date of Collection :	15.02.2025
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	17.02.2025
Lab Code :	N/25/02/3-0261
Issue date :	20.02.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	152
4	Velocity (m/s)	7.59
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm³/hr)	319
7	Sample Condition When Received	Satisfactory
8	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
9	Serial No. of the Equipment	338 DTH 14
10	Calibration done on and due on	Due on 15.07.2025
11	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.096	<0.2
2	CO	g/Kw-hr	0.127	<3.5
3	Nox +HC	g/Kw-hr	0.382	<4.0

INFERENCE

as per KSPCB

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

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