

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/070225/2679/1463

07 February 2025

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

Dear Sir,

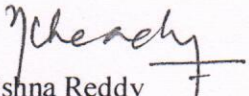
Sub: Submission of reports pertaining to monitoring of environmental parameters for the month of January 2025 in respect of Mining Lease No. 2679.

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 January 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



MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District

Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066

PLANT OFFICE: Metal & Ferroalloy Plant, Vyasankere, Mariyammanahalli - 583 222, Hosapete Taluk, Ballari District

Tel: +91 8394 244450 / 244335

ENVIRONMENTAL MONITORING REPORT

January, 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

SL. NO.	PARTICULARS	Table No.
1	Test Report of Ambient Air Quality	1 to 10
2	Test Report of Fugitive Air Quality	11
3	Dust Fall Measurement	12
4	Ambient Noise Monitoring Report	13
5	Source Noise Monitoring Report	14
6	Surface Water Test Report	15
7	Stack Monitoring Report	16 & 17



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025 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)	
03.01.2025	N/25/01/02-0011	9	11	58	34	0.35
04.01.2025	N/25/01/02-0049	11	13	50	27	0.42
10.01.2025	N/25/01/03-0149	6	10	54	26	0.48
11.01.2025	N/25/01/03-0228	8	14	41	23	0.36
17.01.2025	N/25/01/03-0599	9	11	39	19	0.38
18.01.2025	N/25/01/04-0003	11	13	44	25	0.28
20.01.2025	N/25/01/04-0070	6	10	50	27	0.24
21.01.2025	N/25/01/04-0116	11	16	55	26	0.42
29.01.2025	N/25/02/1-0005	9	12	60	36	0.36
30.01.2025	N/25/02/1-0074	8	10	53	26	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

M. Sachin Raju
M.SACHIN RAJU

T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0013	12	9	50	27	0.42
04.01.2025	N/25/01/02-0051	10	14	57	30	0.44
10.01.2025	N/25/01/03-0151	7	10	53	25	0.35
11.01.2025	N/25/01/03-0230	11	15	49	24	0.28
17.01.2025	N/25/01/03-0601	8	12	46	23	0.36
18.01.2025	N/25/01/04-0005	11	14	54	28	0.31
20.01.2025	N/25/01/04-0072	9	11	48	24	0.24
21.01.2025	N/25/01/04-0118	12	14	40	23	0.35
29.01.2025	N/25/02/1-0007	11	16	57	29	0.33
30.01.2025	N/25/02/1-0076	9	11	45	23	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


 M.SACHIN RAJU
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0014	12	18	35	19	0.26
04.01.2025	N/25/01/02-0052	9	11	49	24	0.22
10.01.2025	N/25/01/03-0152	9	13	58	33	0.35
11.01.2025	N/25/01/03-0231	11	15	47	25	0.27
17.01.2025	N/25/01/03-0602	9	11	50	26	0.45
18.01.2025	N/25/01/04-0006	10	13	44	24	0.36
20.01.2025	N/25/01/04-0073	7	11	48	26	0.27
21.01.2025	N/25/01/04-0119	12	14	53	27	0.33
29.01.2025	N/25/02/1-0008	10	12	49	24	0.28
30.01.2025	N/25/02/1-0077	9	10	58	29	0.22
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
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
 Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0015	11	16	44	21	0.35
04.01.2025	N/25/01/02-0053	9	11	50	27	0.42
10.01.2025	N/25/01/03-0153	10	15	56	28	0.31
11.01.2025	N/25/01/03-0232	11	13	52	27	0.35
17.01.2025	N/25/01/03-0603	12	17	60	35	0.26
18.01.2025	N/25/01/04-0007	9	10	56	28	0.22
20.01.2025	N/25/01/04-0074	8	12	49	26	0.42
21.01.2025	N/25/01/04-0120	7	15	54	29	0.38
29.01.2025	N/25/02/1-0009	8	10	38	18	0.22
30.01.2025	N/25/02/1-0078	9	12	55	32	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


 M.SACHIN RAJU
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0016	8	11	43	25	0.28
04.01.2025	N/25/01/02-0054	11	16	36	19	0.38
10.01.2025	N/25/01/03-0154	10	12	52	18	0.44
11.01.2025	N/25/01/03-0233	9	11	50	26	0.33
17.01.2025	N/25/01/03-0604	7	13	47	24	0.38
18.01.2025	N/25/01/04-0008	11	15	58	29	0.26
20.01.2025	N/25/01/04-0075	10	12	40	22	0.24
21.01.2025	N/25/01/04-0121	7	11	54	22	0.21
29.01.2025	N/25/02/1-0010	10	15	37	20	0.38
30.01.2025	N/25/02/1-0079	11	12	50	27	0.26
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

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

TEST REPORT

Table No.6

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2679						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : A6, Dharmapura village						
Duration : 24 Hrs						
Issue date : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0017	9	11	40	21	0.22
04.01.2025	N/25/01/02-0055	7	14	54	28	0.20
10.01.2025	N/25/01/03-0155	10	16	57	33	0.4
11.01.2025	N/25/01/03-0234	9	11	58	33	0.29
17.01.2025	N/25/01/03-0605	12	18	55	27	0.24
18.01.2025	N/25/01/04-0009	10	12	42	26	0.32
20.01.2025	N/25/01/04-0076	11	13	54	28	0.35
21.01.2025	N/25/01/04-0122	7	10	47	22	0.42
29.01.2025	N/25/02/1-0011	12	18	50	26	0.28
30.01.2025	N/25/02/1-0080	11	15	57	29	0.22
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

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0018	5	12	46	16	0.42
04.01.2025	N/25/01/02-0056	9	10	39	23	0.36
10.01.2025	N/25/01/03-0156	5	9	36	17	0.21
11.01.2025	N/25/01/03-0235	10	12	49	25	0.22
17.01.2025	N/25/01/03-0606	7	9	40	22	0.26
18.01.2025	N/25/01/04-0010	11	15	38	19	0.21
20.01.2025	N/25/01/04-0077	12	14	52	26	0.20
21.01.2025	N/25/01/04-0123	9	20	50	27	0.23
29.01.2025	N/25/02/1-0012	8	11	46	25	0.31
30.01.2025	N/25/02/1-0081	9	13	39	18	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

M. Sachin Raju
M. SACHIN RAJU

T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0010	8	14	51	33	0.45
04.01.2025	N/25/01/02-0048	9	11	59	29	0.36
10.01.2025	N/25/01/03-0146	11	13	54	27	0.27
11.01.2025	N/25/01/03-0225	6	10	50	24	0.22
13.01.2025	N/25/01/03-0441	11	16	45	24	0.36
14.01.2025	N/25/01/03-0495	9	12	40	22	0.48
24.01.2025	N/25/01/05-0010	8	10	53	26	0.35
25.01.2025	N/25/01/05-0070	10	14	45	24	0.28
27.01.2025	N/25/01/5-0137	11	13	54	23	0.45
28.01.2025	N/25/01/5-0286	7	9	50	27	0.33
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
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0006	6	9	42	20	0.22
04.01.2025	N/25/01/02-0044	10	13	50	27	0.48
10.01.2025	N/25/01/03-0142	8	11	52	19	0.36
11.01.2025	N/25/01/03-0221	9	12	36	18	0.34
13.01.2025	N/25/01/03-0437	10	11	54	28	0.24
14.01.2025	N/25/01/03-0491	8	10	47	25	0.25
24.01.2025	N/25/01/05-0006	10	13	50	27	0.33
25.01.2025	N/25/01/05-0066	8	13	46	24	0.42
27.01.2025	N/25/01/5-0133	9	10	58	30	0.28
30.01.2025	N/25/01/5-0282	5	12	56	30	0.22
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

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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 : 03.02.2025						
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)	
03.01.2025	N/25/01/02-0012	10	14	54	29	0.42
04.01.2025	N/25/01/02-0050	11	13	44	23	0.35
10.01.2025	N/25/01/03-0150	9	10	50	26	0.26
11.01.2025	N/25/01/03-0229	10	15	58	33	0.22
17.01.2025	N/25/01/03-0600	11	16	55	28	0.28
18.01.2025	N/25/01/04-0004	10	11	48	23	0.20
20.01.2025	N/25/01/04-0071	9	12	52	27	0.30
21.01.2025	N/25/01/04-0117	11	18	58	30	0.28
29.01.2025	N/25/02/1-0006	6	11	38	21	0.25
30.01.2025	N/25/02/1-0075	11	17	50	28	0.35
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
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
 Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

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 : 03.02.2025			
Station at & Code	Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Loading point	17.01.2024	N/25/01/03-0598	385
FA2, Dumping point	17.01.2025	N/25/01/03-0607	563
FA3, Haulage Road	17.01.2025	N/25/01/03-0608	458
FA4, Stack Yard	18.01.2025	N/25/01/04-0011	268
FA5, Drilling Point	18.01.2025	N/25/01/04-0012	558
FA6, Waste Dumping Point	18.01.2025	N/25/01/04-0013	485
Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment) Particulate mater ($\mu\text{g}/\text{m}^3$) Permissible limits for Fugitive Emissions 600 $\mu\text{g}/\text{m}^3$			


 M.SACHIN RAJU
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
 Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

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	01.01.2025 to 31.01.2025
4	Sample Type	Total Dust Fall Rate
5	Duration of Monitoring	One Month
6	Issue Date	03.02.2025

Result

Code	Location	Result	unit	Reference Method
DF1	Mine Office Area	0.017	g/m ² month	IS 5182 (Part 01) : 2006
DF2	Near Crusher Area	0.021	g/m ² month	IS 5182 (Part 01) : 2006

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

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

TEST REPORT

Table No. 13

AMBIENT NOISE LEVEL DATA

Report No : ELMES0112501

Report No : EMM2024/120

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		: 17.01.2025					
Issue Date		: 03.02.2025					
Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Corezone							
N1	Core zone ML Area	39.0	50.6	57.5	34.0	42.7	46.8
N2	Myadara Banda Block	37.0	49.9	56.4	34.0	40.2	43.6
N3	Goerner Point	38.5	55.6	63.5	33.8	39.8	45.2
N4	Neerlabbi	36.0	48.8	55.0	34.0	42.0	47.0
Buffer zone							
N5	Ramgad village	36.0	49.6	54.8	34.0	41.6	43.9
N6	Dharmapura	37.8	47.7	53.9	35.0	39.0	42.0
N7	Garaga village	36.0	45.9	51.0	33.0	38.1	42.5
N8	Yeshwanthanagar	41.5	50.7	56.8	34.0	41.4	46.0
N9	Subbarayanahalli	39.5	51.4	57.0	33.3	41.3	45.2
N10	Siddapura	38.0	51.6	58.0	34.6	43.2	47.0
<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u>							
		Leq. Limit dB(A)					
		Day			Night		
Industrial areas		75			70		
Commercial area		65			55		
Residential area		55			45		


 M.SACHIN RAJU
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

TEST REPORT

Table No. 14

NOISE LEVEL DATA

Report No : ELMES0122501

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		: 18.01.2025																																																			
Issue Date		: 03.02.2025																																																			
Code No.	Monitoring stations	Day			Remarks																																																
		L _{min}	L _{eq}	L _{max}																																																	
Source																																																					
N1	Loading Point	44.2	60.4	68.0	During operation																																																
N2	Dumping Point	43.0	70.3	78.0	During operation																																																
N3	Haulage Road	44.0	70.5	80.0	During operation																																																
Heavy Earth Moving Machineries																																																					
N4	Wheel Loader	41.0	81.3	88.0	During operation in side of the cabin																																																
		42.0	75.5	80.0	During operation 10mts outside of the cabin																																																
N5	Tata Hitachi 200LC	40.0	75.5	83.0	During operation in side of the cabin																																																
		38.0	71.6	76.0	During operation 10mts outside of the cabin																																																
<table border="0"> <tr> <td colspan="3">Permissible limits as per ILO Code of Practice</td> <td colspan="3">Permissible Limits of Ambient</td> </tr> <tr> <td colspan="3">For Unprotected ear - 8 hrs working shift</td> <td colspan="3">Noise Levels as per CPCB Guidelines</td> </tr> <tr> <td colspan="3">Warning limit - 85 dB(A)</td> <td colspan="3">Leq. Limit dB(A)</td> </tr> <tr> <td colspan="3">Danger limit - 90 dB(A)</td> <td colspan="3">Day Night</td> </tr> <tr> <td colspan="3">Worker not to be exposed for more than 115 dB(A)</td> <td>Industrial areas</td> <td>75</td> <td>70</td> </tr> <tr> <td colspan="3">With ear protection -</td> <td>Commerecial area</td> <td>65</td> <td>55</td> </tr> <tr> <td colspan="3">130 dB(A) 'Impulse' or 120 dB(A) 'Fast'</td> <td>Residential area</td> <td>55</td> <td>45</td> </tr> <tr> <td colspan="6">No entry when noise level exceeds 140 dB(A)</td> </tr> </table>						Permissible limits as per ILO Code of Practice			Permissible Limits of Ambient			For Unprotected ear - 8 hrs working shift			Noise Levels as per CPCB Guidelines			Warning limit - 85 dB(A)			Leq. Limit dB(A)			Danger limit - 90 dB(A)			Day Night			Worker not to be exposed for more than 115 dB(A)			Industrial areas	75	70	With ear protection -			Commerecial area	65	55	130 dB(A) 'Impulse' or 120 dB(A) 'Fast'			Residential area	55	45	No entry when noise level exceeds 140 dB(A)					
Permissible limits as per ILO Code of Practice			Permissible Limits of Ambient																																																		
For Unprotected ear - 8 hrs working shift			Noise Levels as per CPCB Guidelines																																																		
Warning limit - 85 dB(A)			Leq. Limit dB(A)																																																		
Danger limit - 90 dB(A)			Day Night																																																		
Worker not to be exposed for more than 115 dB(A)			Industrial areas	75	70																																																
With ear protection -			Commerecial area	65	55																																																
130 dB(A) 'Impulse' or 120 dB(A) 'Fast'			Residential area	55	45																																																
No entry when noise level exceeds 140 dB(A)																																																					


 M.SACHIN RAJU
 T.M. - Chemical
 Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
 Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

TEST REPORT

Table No.15

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		: 17.01.2025					
Issue Date		: 30.01.2025					
Ref:IS : 2296, Water Quality Standards							
Sl.No.	Sample Code	SW1	SW2	SW3	SW4	Limits For Stream Water Standards	Method of Testing
	Lab Code	N/25/01/03-0420	N/25/01/03-0421	N/25/01/03-0422	N/25/01/03-0423		
	Parameters	Results					
1	pH	8.38	8.47	8.50	8.48	6.5 to 8.5	IS:3025(Part-11)2022
2	Colour (Hazen Units), Max	10	10	5	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	210	220	690	700	1500	IS:3025(Part-16)2023
5	Total Suspended Solids, mg/l	140	110	52	64	-	IS 3025 (P-17) 2022
6	Dissolved Oxygen (as O ₂), mg/l	5.4	5.3	5.10	5.30	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 & Grease, 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	115	120	300	320	-	IS:3025 (P-21):2009 RA 2019
10	Sulphates as SO ₄ (mg/l), Max	46	42.5	60.2	85	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	55	50	255.0	270	600	IS:3025(Part-32) ;1988RA2019
13	Fluoride (as F),mg/l, Max	0.52	0.5	0.82	0.76	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 (%)	34	35	26.00	38.00	-	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	180	210	300	5000	IS:1622:1981

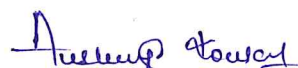
"END OF REPORT"



BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory



ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

TEST REPORT

Table No. 16

Stack Monitoring Report

Report No. 0014250104

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 :	18.01.2025
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	20.01.2025
Lab Code :	N/25/01/04-0014
Issue date :	03.02.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	128
4	Velocity (m/s)	7.94
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	353
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	0.111	<0.2
2	CO	g/Kw-hr	0.071	<3.5
3	Nox +HC	g/Kw-hr	0.121	<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

M. Sachin Raju
M.SACHIN RAJU

T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

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

TEST REPORT

Table No. 17

Stack Monitoring Report

Report No. 0015250104

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 :	18.01.2025
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	20.01.2025
Lab Code :	N/25/01/04-0015
Issue date :	03.02.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	138
4	Velocity (m/s)	7.99
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm³/hr)	347
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	0.121	<0.2
2	CO	g/Kw-hr	0.139	<3.5
3	Nox +HC	g/Kw-hr	0.364	<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

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical
Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in