

The Sandur Manganese & Iron Ores

(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/070125/2678/1324

07 January 2025

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

Dear Sir,

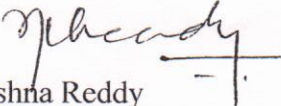
Sub: Submission of reports pertaining to monitoring environmental parameters for the month of December 2024 in respect of Mining Lease No. 2678.

Ref: 1. Environmental Clearance F.No. IA-J-11015/45/2021-IA-II(M) dated 25 April 2023.
2. Consent for Operation No. AW-345054 dated 18 September 2024.

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 December 2024 in respect of Mining Lease No. 2678 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

ENVIRONMENTAL MONITORING REPORT

December, 2024

Project : Mining Lease No. 2678
Deogiri Manganese & Iron Ore Mine,
Kammathuru Iron Ore Mine,
Subrayanahalli Manganese & Iron Ore Mine,
Sandur Taluk, Ballari Dist, Karnataka.

Lessee

The Sandur Manganese & Iron Ores Limited
Sandur,

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,

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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. 2678 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A1, Mine Pit (SK) / (CBG) Duration : 24 Hrs Issue date : 02.01.2025 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)	
06.12.2024	N/24/12/3-0077	11	14	59	32	0.42
07.12.2024	N/24/12/3-0168	9	11	40	25	0.36
09.12.2024	N/24/12/4-0006	10	12	46	27	0.24
10.12.2024	N/24/12/4-0064	11	15	54	28	0.28
20.12.2024	N/24/12/5-0140	9	13	56	29	0.31
21.12.2024	N/24/12/5-0220	7	9	49	26	0.26
23.12.2024	N/24/12/6-0021	11	13	53	28	0.22
24.12.2024	N/24/12/6-0084	12	18	55	30	0.20
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	2 8 Hr

Arshiya Kousar
 ARSHIYA KOUSAR
 Dy. 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. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A2, Kammathuru (within ML Area)						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0078	11	17	53	28	0.36
07.12.2024	N/24/12/3-0169	4	9	48	26	0.27
09.12.2024	N/24/12/4-0007	9	11	51	27	0.23
10.12.2024	N/24/12/4-0065	10	15	43	25	0.26
20.12.2024	N/24/12/5-0141	11	13	55	28	0.34
21.12.2024	N/24/12/5-0221	11	17	39	20	0.44
23.12.2024	N/24/12/6-0022	7	15	52	27	0.38
24.12.2024	N/24/12/6-0085	4	9	41	24	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.3

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A3, Deogiri (within ML Area)						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0079	9	11	35	18	0.24
07.12.2024	N/24/12/3-0170	12	16	53	28	0.21
09.12.2024	N/24/12/4-0008	11	14	45	24	0.20
10.12.2024	N/24/12/4-0066	12	18	51	27	0.32
20.12.2024	N/24/12/5-0142	10	12	39	21	0.28
21.12.2024	N/24/12/5-0222	9	11	37	18	0.24
23.12.2024	N/24/12/6-0023	8	13	48	26	0.23
24.12.2024	N/24/12/6-0086	8	11	54	28	0.31
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. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A4, SBH Plot (Mine Boundary)						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0080	8	13	36	19	0.25
07.12.2024	N/24/12/3-0171	7	10	37	19	0.22
09.12.2024	N/24/12/4-0009	9	10	57	33	0.36
10.12.2024	N/24/12/4-0067	7	9	48	28	0.33
20.12.2024	N/24/12/5-0143	9	11	50	29	0.28
21.12.2024	N/24/12/5-0223	6	14	35	21	0.28
23.12.2024	N/24/12/6-0024	8	16	53	27	0.32
24.12.2024	N/24/12/6-0087	10	12	43	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

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Table No.5

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A5, Subbarayanahalli (within ML Area)						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0081	7	9	45	26	0.24
07.12.2024	N/24/12/3-0172	7	11	39	20	0.23
09.12.2024	N/24/12/4-0010	8	14	50	27	0.22
10.12.2024	N/24/12/4-0068	10	12	47	25	0.38
20.12.2024	N/24/12/5-0144	9	12	37	19	0.27
21.12.2024	N/24/12/5-0224	9	17	42	23	0.21
23.12.2024	N/24/12/6-0025	11	12	50	27	0.31
24.12.2024	N/24/12/6-0088	11	11	40	22	0.27
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.6

AMBIENT AIR QUALITY

Name of the Client : The Sandur Manganese & Iron Ores Limited						
Name of the Project : Mining Lease No. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A6, Appayyanahalli (Narayanpura)						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0082	12	18	35	19	0.22
07.12.2024	N/24/12/3-0173	8	14	40	24	0.34
09.12.2024	N/24/12/4-0011	9	11	54	27	0.42
10.12.2024	N/24/12/4-0069	9	11	41	23	0.22
20.12.2024	N/24/12/5-0145	9	11	47	26	0.26
21.12.2024	N/24/12/5-0225	11	15	53	24	0.28
23.12.2024	N/24/12/6-0026	9	11	38	20	0.33
24.12.2024	N/24/12/6-0089	12	15	44	24	0.31
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. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A7, Vitalanagar (Navalatti)						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0083	10	9	38	19	0.25
07.12.2024	N/24/12/3-0174	10	12	54	25	0.24
09.12.2024	N/24/12/4-0012	6	9	46	23	0.41
10.12.2024	N/24/12/4-0070	8	14	55	28	0.33
20.12.2024	N/24/12/5-0146	10	16	50	27	0.46
21.12.2024	N/24/12/5-0226	9	11	44	23	0.36
23.12.2024	N/24/12/6-0027	8	13	52	26	0.25
24.12.2024	N/24/12/6-0090	10	16	36	22	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

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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. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A8, Swamihalli						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0084	9	19	40	24	0.21
07.12.2024	N/24/12/3-0175	10	14	48	20	0.30
09.12.2024	N/24/12/4-0013	42	16	54	28	0.22
10.12.2024	N/24/12/4-0071	7	9	50	26	0.20
20.12.2024	N/24/12/5-0147	10	11	42	23	0.25
21.12.2024	N/24/12/5-0227	10	16	37	20	0.22
23.12.2024	N/24/12/6-0028	10	11	48	25	0.33
24.12.2024	N/24/12/6-0091	8	13	32	20	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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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. 2678 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Station at & Code : A9, Yeswanthanagar Duration : 24 Hrs Issue date : 02.01.2025 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)	
06.12.2024	N/24/12/3-0085	10	11	47	20	0.22
07.12.2024	N/24/12/3-0176	10	16	37	20	0.45
09.12.2024	N/24/12/4-0014	12	15	56	30	0.48
10.12.2024	N/24/12/4-0072	9	12	49	27	0.32
20.12.2024	N/24/12/5-0148	7	11	54	28	0.28
21.12.2024	N/24/12/5-0228	11	14	50	24	0.23
23.12.2024	N/24/12/6-0029	10	18	47	23	0.21
24.12.2024	N/24/12/6-0092	12	15	55	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

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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. 2678						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)						
Station at & Code : A10, Tonasigeri						
Duration : 24 Hrs						
Issue date : 02.01.2025						
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)	
06.12.2024	N/24/12/3-0076	9	11	48	15	0.28
07.12.2024	N/24/12/3-0167	8	10	56	29	0.21
09.12.2024	N/24/12/4-0005	9	11	35	17	0.34
10.12.2024	N/24/12/4-0063	6	9	53	26	0.22
20.12.2024	N/24/12/5-0139	12	14	44	23	0.25
21.12.2024	N/24/12/5-0219	10	12	46	16	0.21
23.12.2024	N/24/12/6-0020	9	11	50	28	0.20
24.12.2024	N/24/12/6-0083	14	16	40	24	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

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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	: Deogiri Manganese & Iron Ore Mine (ML NO. 2678)		
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)		
Duration	: 08 Hrs		
Issue Date	: 02.01.2025		
Station at & Code	Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Mine Face / Benches	23.12.2024	N/24/12/6-0030	268
FA2, Haulage Road / Service Road	23.12.2024	N/24/12/6-0031	488
FA3, Crushing & Screening Plant	23.12.2024	N/24/12/6-0032	436
FA4, Mineral Stock Yard / Loading	24.12.2024	N/24/12/6-0093	325
FA5, Active Waste Dump	24.12.2024	N/24/12/6-0094	396
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

Fugitive Emission

Name of the Client : The Sandur Manganese & Iron Ores Limited Name of the Project : Kammathuru Iron Ore (KTIO) (ML No. 2678) Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) Duration : 08 Hrs Issue Date : 02.01.2025			
Station at & Code	Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Mine Face / Benches	06.12.2024	N/24/12/3-0086	380
FA2, Haulage Road / Service Road	06.12.2024	N/24/12/3-0087	425
FA3, Crushing & Screening Plant	06.12.2024	N/24/12/3-0088	365
FA4, Mineral Staock Yard / Loading	07.12.2024	N/24/12/3-0177	287
FA5, Active Waste Dump	07.12.2024	N/24/12/3-0178	458
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. 13

Fugitive Emission

Name of the Client	: The Sandur Manganese & Iron Ores Limited		
Name of the Project	: Subrayanahalli Manganese & Iron Ore Mine (ML NO. 2678)		
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)		
Duration	: 08 Hrs		
Issue Date	: 02.01.2025		
Station at & Code	Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
FA1, Mine Face / Benches	20.12.2024	N/24/12/5-0149	287
FA2, Haulage Road / Service Road	20.12.2024	N/24/12/5-0150	386
FA3, Crushing & Screening Plant	20.12.2024	N/24/12/5-0151	412
FA4, Mineral Stock Yard / Loading	21.12.2024	N/24/12/5-0229	358
FA5, Active Waste Dump	21.12.2024	N/24/12/5-0230	437
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. 14

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. 2678
3	Month	01.12.2024 to 31.12.2024
4	Sample Type	Total Dust Fall Rate
5	Duration of Monitoring	One Month
6	Issue Date	02.01.2025

Result

Code	Location	Result	unit	Reference Method
DF1	Deogiri mines office	0.032	g/m^2 month	IS 5182 (Part 01) : 2006
DF2	Kammathuru (Near School)	0.028	g/m^2 month	IS 5182 (Part 01) : 2006
DF3	Appayyanahalli	0.190	g/m^2 month	IS 5182 (Part 01) : 2006
DF4	Subbarayanahalli (Near Hospital)	0.021	g/m^2 month	IS 5182 (Part 01) : 2006
DF5	Yeswanthanagar (Near Railway Track)	0.028	g/m^2 month	IS 5182 (Part 01) : 2006

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TEST REPORT

Table No. 15

AMBIENT NOISE LEVEL DATA

Report No : ELMES072412

Client	: The Sandur Manganese & Iron Ores Limited						
Project	: Mining Lease No. 2678						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)						
Date of monitoring	: 09.12.2024						
Issue Date	: 02.01.2025						
Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Corezone							
N1	Mine Pit (SK/CBG)	36.5	53.9	61.0	34.0	50.0	59.1
N2	Kammathuru ML Area	38.2	54.5	63.0	35.0	46.7	55.2
N3	Deogiri ML Area	38.0	49.7	56.2	34.0	42.8	48.3
N4	SBS Plot (Mine Boundary)	39.0	52.0	58.2	34.0	43.1	51.0
N5	SB Halli ML Area	42.0	54.9	62.2	35.3	46.3	54.5
N6	Mine area	43.0	81.2	91.2	34.0	44.5	51.0
Bufferzone							
N7	Appayanahalli (Narayanapura)	39.0	49.5	57.2	34.0	39.1	46.2
N8	Vitthalanagar (Navalatti)	38.0	49.5	55.0	35.0	43.3	49.2
N9	Swamihalli	37.0	47.7	54.8	36.2	41.4	43.2
N10	Yeshwanthnagar	41.0	49.9	55.3	34.0	42.1	48.2
N11	Tonasingeri	36.8	49.0	52.3	33.6	41.3	44.1
N12	Kumaraswamy Temple	36.0	46.8	52.8	34.0	40.7	46.2
<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				

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TEST REPORT

Table No. 16

SOURCE NOISE LEVEL DATA

Report No : ELMES072412

Client		: The Sandur Manganese & Iron Ores Limited					
Project		: Mining Lease No. 2678					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)					
Date of monitoring		: 10.12.2024					
Issue Date		: 02.01.2025					
Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Source							
N1	Mine Face	39.0	62.4	72.3	During operation		
N2	Haulage Road	42.0	73.6	82.2	During operation		
N3	Crushing & Screening Plant	45.0	76.1	86.0	During operation		
N4	Mineral Staoock Yard	38.0	54.9	60.0	During operation		
N5	Active Waste Dump	43.0	68.6	78.0	During operation		
Heavy Earth Moving Machineries							
N6	Mobile Crusher Capacity : 250 TPH (MSP-4)	38.0	70.1	80.0	During operation from 10mts distance		
N7	Power Screening Chieftain 2100 : Capacity : 350 TPH	40.0	63.3	72.0	During operation from 10mts distance		
N8	Sandvik/ MSP-7 : Capacity : 250 TPH	39.2	63.3	73.2	During operation from 10mts distance		
N9	Chieftatn-1400/MSP-8 : Capacity : 250 TPH	42.0	59.8	69.0	During operation from 10mts distance		
N10	Terex-Pegson /MCP-1 (cone Crusher) : Capacity : 250 TPH	38.0	65.1	75.0	During operation from 10mts distance		
N11	Terex-Pegson /MCP-1 (Jaw Crusher) : Capacity : 250 TPH	41.0	67.4	77.3	During operation from 10mts distance		
N12	DG 1010 KVA (808 KW)	37.0	71.8	80.0	During operation from 10mts distance		
N13	Wheel Loader	42.0	76.9	81.0	During operation in side of the cabin		
		39.0	73.7	76.5	During operation 10mts outside of the cabin		
N14	Tata Hitachi 200LC	48.0	76.7	83.0	During operation in side of the cabin		
		43.0	73.4	75.6	During operation 10mts outside of the cabin		
N15	Volvo Hitachi EC260 BLC	46.0	76.7	80.0	During operation in side of the cabin		
		44.0	69.7	76.0	During operation 10mts outside of the cabin		
N16	Excavator EC2100 Operator	45.0	74.8	82.0	During operation in side of the cabin		
		41.0	67.8	78.0	During operation 10mts outside of the cabin		
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 -				Commercial 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)							

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TEST REPORT

Table No. 17

Report No : N029224123

Name of the Client	: The Sandur Manganese & Iron Ores Limited
Name of the Project	: Mining Lease No. 2678
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: STP1, Inlet Water sample from 100 KLD STP, Deogiri
Date of sample collection	: 07.12.2024
Date of sample collection	: 08.12.2024
Lab Code	: N/24/12/3-0292
Issue Date	: 28.12.2024

Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes

Sl.No.	Parameters	units	Results	Method of Testing
1	pH	-	7.10	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27 ^o C	mg/l	72	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	192	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105 ^o C	mg/l	140	IS 3025 (P-17)1984 RA 2017
5	Ammonium (H4-N)	mg/l	1	IS:3025 (P-34) 2023
6	Total Nitrogen (N-Total)	mg/l	10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	56	APHA 23rd Edition 9221


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TEST REPORT

Table No. 18

Report No : N029324123

Name of the Client	: The Sandur Manganese & Iron Ores Limited
Name of the Project	: Mining Lease No. 2678
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: STP2, Outlet Water sample from 100 KLD STP, Deogiri
Date of sample collection	: 07.12.2024
Date of sample collection	: 08.12.2024
Lab Code	: N/24/12/3-0293
Issue Date	: 28.12.2024
Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes	

Sl.No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.05	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27° C	mg/l	5.8	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	40	<50	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105°C	mg/l	10	<20	IS 3025 (P-17)1984 RA 2017
5	Ammonium (H4-N)	mg/l	0.4	<5	IS:3025 (P-34) 2023
6	Total Nitrogen (N-Total)	mg/l	4	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	3	<100	APHA 23rd Edition 9221

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TEST REPORT

Table No. 19

Name of the Client : The Sandur Manganese & Iron Ores Limited
 Name of the Project : Mining Lease No. 2678
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Particulars of sample collected : SW1 - Durgammakolla spring water, SW2 - JLK spring water
 SW3 - Katrasinghkolla spring water
 Date of sample collection : 07.12.2024
 Date of sample receipt : 08.12.2024
 Issue Date : 28.12.2024

Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)

Lab Code		N/24/12/3-0282	N/24/12/3-0283	N/24/12/3-0284	Limits For Stream Water Standards	Method of Testing
Sl.No.	Parameters	Results				
		SW1	SW2	SW3		
1	pH	7.25	6.36	7.54	6.5 to 8.5	IS:3025(Part-11)2022
2	Colour (Hazen Units), Max	1.0	1.0	5.0	300	IS:3025(Part-4)2021
3	Odour	Agreeable	Agreeable	Agreeable	-	IS:3025 (P-5) 2018
4	Total Dissolved Solids (mg/l), Max	310.0	162.0	156.0	1500	IS:3025(Part-16)2023
5	Total Suspended Solids, mg/l	14	6	20	-	IS 3025 (P-17) 2022
6	Dissolved Oxygen (as O ₂), mg/l, Max	5.50	5.70	5.80	Min 4	IS:3025(Part-38)1989RA 2019
7	Biochemical Oxygen Demand (as O ₂), mg/l	<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	IS:3025(Part 39)2021
9	Total Hardness (as CaCO ₃),mg/l,Max	220	64	66	-	IS:3025 (P-21):2009 RA 2019
10	Sulphates as SO ₄ (mg/l), Max	8	6.2	5.5	400	IS:3025(P-24)Sec 1 2022
11	Phosphates (as P), mg/l	<0.05	<0.05	<0.05	-	IS 3025 (P-31) Sec 1 2022
12	Chloride (as Cl),mg/l, Max	40.0	50.0	60	600	IS:3025(Part-32) ;1988RA2019
13	Fluoride (as F),mg/l, Max	0.42	0.34	0.28	1.5	APHA 23rd Edition 4500F
14	Sulphide (as H ₂ S) , mg/l, Max	<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	-	IS:3025 (Part-57)2021
16	Iron (as Fe),mg/l, Max	0.161	0.155	0.147	50	IS:3025(P-2) 2019
17	Percent of Sodium (%)	10.00	18.00	14.00	-	IS 11624 .2009
18	Residual Sodium Carbonate (meq/l)	<0.5	<0.5	<0.5	-	IS 11624 .2009
19	Total Coliform, MPN/100ml	90	80	76	5000	IS:1622:1981

""END OF REPORT""

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TEST REPORT

Table No.20

Name of the Client	: The Sandur Manganese & Iron Ores Limited
Name of the Project	: Mining Lease No. 2678
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: SW4 - Hari Shankar Spring Water, SW5 - Narihalla Dam water
Date of sample collection	: 07.12.2024
Date of sample receipt	: 08.12.2024
Issue Date	: 28.12.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Lab Code		N/24/12/3-0285	N/24/12/3-0286	Limits For Stream Water Standards	Method of Testing
Sl.No.	Parameters	Results			
		SW4	SW5		
1	pH	5.7	8.2	6.5 to 8.5	IS:3025(Part-11)2022
2	Colour (Hazen Units), Max	3.0	5.0	300	IS:3025(Part-4)2021
3	Odour	Agreeable	Agreeable	-	IS:3025 (P-5) 2018
4	Total Dissolved Solids (mg/l), Max	54.0	336.0	1500	IS:3025(Part-16)2023
5	Total Suspended Solids, mg/l	10	32	-	IS 3025 (P-17) 2022
6	Dissolved Oxygen (as O ₂), mg/l, Max	5.80	5.60	Min 4	IS:3025(Part-38)1989RA 2019
7	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	<3.0	3	IS:3025(P-44) 2014
8	Oil & Greease, mg/l	<0.1	<0.1	0.1	IS:3025(Part 39)2021
9	Total Hardness (as CaCO ₃),mg/l,Max	20	190	-	IS:3025 (P-21):2009 RA 2019
10	Sulphates as SO ₄ (mg/l), Max	4.6	40.6	400	IS:3025(P-24)Sec 1 2022
11	Phosphates (as P), mg/l	<0.05	<0.05	-	IS 3025 (P-31) Sec 1 2022
12	Chloride (as Cl),mg/l, Max	22	85	600	IS:3025(Part-32) ;1988RA2019
13	Fluoride (as F),mg/l, Max	0.28	0.62	1.5	APHA 23rd Edition 4500F
14	Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	-	IS:3025 (P-29):1986 RA 2019
15	Boron (as B), mg/l, Max	<0.1	<0.1	-	IS:3025 (Part-57)2021
16	Iron (as Fe),mg/l, Max	0.138	0.162	50	IS:3025(P-2) 2019
17	Percent of Sodium (%)	12.00	20.00	-	IS 11624 .2009
18	Residual Sodium Carbonate (meq/l)	<0.5	<0.5	-	IS 11624 .2009
19	Total Coliform, MPN/100ml	30	70	5000	IS:1622:1981

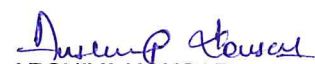
""END OF REPORT""



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TEST REPORT

Table No. 21

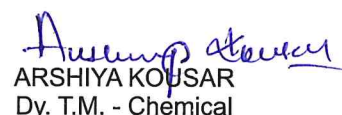
Name of the Client		: The Sandur Manganese & Iron Ores Limited					
Name of the Project		: Mining Lease No. 2678					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)					
Particulars of sample collected		: GW1 - Deogiri Mine Office Bore water, GW2 - Borewell near Kumarswamy temple, GW3 - Appayyanahalli (Narayanpura) Bore water					
Date of sample collection		: 07.12.2024					
Issue Date		: 28.12.2024					
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)							
Sl. No.	Lab Code	N/24/12/3-0287	N/24/12/3-0288	N/24/12/3-0289	Desirable Limits	Permissible Limits	Method of Testing
	Sample Code Parameters	GW1	GW2	GW3			
1	Colour (Hazen Units)	<1.0	1	<1.0	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.62	6.76	7.6	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Turbidity, NTU, Max	<0.1	3.8	1.2	1	5	IS:3025 (P-10) 1984 RA 2017
5	Electrical Conductivity (µmhos/cm)	170.0	350.0	186	—	—	IS 3025 (P-14)
6	Total Dissolved Solids, mg/l, Max	92.0	190.0	100.0	500	2000	IS:3025 (P-16) 1984 RA2017
7	Aluminium (as Al), Max	<0.005	<0.005	<0.005	0.03	0.2	IS:3025 (P-2) 2019
8	Boron (as B), mg/l, Max	<0.1	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
9	Calcium (as Ca), mg/l, Max	8.80	24.00	9.60	75	200	IS:3025 (P-40) 1991 RA 2019
10	Copper (as Cu), mg/l, Max	<0.005	<0.005	<0.005	0.05	1.5	IS:3025 (P-2) 2019
11	Chloride as Cl (mg/l), mg/l, Max	21.00	44.0	28.0	250	1000	IS:3025 (P-32) 1988 RA 2019
12	Fluoride (as F), mg/l, Max	0.25	0.30	0.57	1	1.5	APHA 23rd Edition 4500F
13	Iron (as Fe), mg/l, Max	<0.005	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
14	Magnesium (as Mg), mg/l, Max	4.00	15.50	4.30	30	100	IS:3025 (P-46) 1994 RA 2019
15	Manganese (as Mn), mg/l, Max	<0.001	<0.001	<0.001	0.1	0.3	IS:3025 (P-2) 2019
16	Nitrates (as NO ₃), mg/l, Max	7.50	11.20	9.00	45	45	APHA 23rd Edition 4500B
17	Selenium (as Se), mg/l	<0.005	<0.005	<0.005	0.01	0.01	IS:3025(P-2) 2019
18	Sulphates (as SO ₄), mg/l, Max	13.00	18.60	12.6	200	400	IS:3025 (P-24) Sec 1 2022
19	Alkalinity (as CaCO ₃), mg/l, Max	36.00	100.00	40.00	200	600	IS:3025 (P-23):1986 RA 2019
20	Total Hardness (as CaCO ₃), mg/l, Max	38.0	124.0	42.0	200	600	IS:3025 (P-21):2009 RA 2019
21	Zinc (as Zn), mg/l, Max	<0.005	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
22	Sodium, (as Na), mg/l, Max	12	16	14	-	-	IS:3025 (Part-45) 1993 RA2019
23	Potassium, (as K), mg/l, Max	<1.0	3.8	2.6	-	-	IS:3025 (Part-45)
24	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	<0.001	0.003	0.003	IS:3025 (P-2) 2019
25	Cyanide (as CN), mg/l, Max	<0.01	<0.01	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
26	Lead (as Pb), mg/l, Max	<0.005	<0.005	<0.005	0.01	0.01	IS:3025 (P-2) 2019
27	Mercury (as Hg), mg/l, Max	<0.005	<0.005	<0.005	0.001	0.001	USPEA 200.7 Rev 4.4
28	Arsenic (as As), mg/l, Max	<0.002	<0.002	<0.002	0.01	0.01	IS:3025 (P-2) 2019
29	Total Chromium (as Cr), mg/l, Max	<0.001	<0.001	<0.001	0.05	0.05	IS:3025 (P-2) 2019
30	Escherichia coli/100ml	Not Detected	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
31	Total Coliform /100ml	Not Detected	Not Detected	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"


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TEST REPORT

Table No. 22

Name of the Client		: The Sandur Manganese & Iron Ores Limited				
Name of the Project		: Mining Lease No. 2678				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)				
Particulars of sample collected		: GW4 - SB Halli Bore water (near hospital), GW5 - Yeshwanthnagar Bore water (near railway track)				
Date of sample collection		: 07.12.2024				
Issue Date		: 28.12.2024				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Sl. No.	Lab Code	N/24/12/3-0290	N/24/12/3-0291	Desirable Limits	Permissible Limits	Method of Testing
	Sample Code	GW4	GW5			
	Parameters	Results				
1	Colour (Hazen Units)	1	1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.56	7.72	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11) 2022
4	Turbidity, NTU, Max	4.0	1.6	1	5	IS:3025 (P-10) 1984 RA 2017
5	Electrical Conductivity (µmhos/cm)	420.0	2300.0	—	—	IS 3025 (P-14)
6	Total Dissolved Solids, mg/l, Max	230.0	1350.0	500	2000	IS:3025 (P-16) 1984 RA 2017
7	Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-2) 2019
8	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
9	Calcium (as Ca), mg/l, Max	30.40	128.20	75	200	IS:3025 (P-40) 1991 RA 2019
10	Copper (as Cu), mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2) 2019
11	Chloride as Cl (mg/l), mg/l, Max	40.00	460.00	250	1000	IS:3025 (P-32) 1988 RA 2019
12	Fluoride (as F), mg/l, Max	0.40	0.85	1	1.5	APHA 23rd Edition 4500F
13	Iron (as Fe), mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2) 2019
14	Magnesium (as Mg), mg/l, Max	24.30	97.20	30	100	IS:3025 (P-46) 1994 RA 2019
15	Manganese (as Mn), mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2) 2019
16	Nitrates (as NO ₃), mg/l, Max	18.50	72.00	45	45	APHA 23rd Edition 4500B
17	Selenium (as Se), mg/l	<0.005	<0.005	0.01	0.01	IS:3025 (P-2) 2019
18	Sulphates (as SO ₄), mg/l, Max	38.00	110.00	200	400	IS:3025 (P-24) Sec 1 2022
19	Alkalinity (as CaCO ₃), mg/l, Max	110.0	360.0	200	600	IS:3025 (P-23):1986 RA 2019
20	Total Hardness (as CaCO ₃), mg/l, Max	175.0	720.0	200	600	IS:3025 (P-21):2009 RA 2019
21	Zinc (as Zn), mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
22	Sodium, (as Na), mg/l, Max	12.5	130	—	—	IS:3025 (Part-45) 1993 RA 2019
23	Potassium, (as K), mg/l, Max	5.6	7.8	—	—	IS:3025 (Part-45)
24	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2) 2019
25	Cyanide (as CN), mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27) Sec 1 2021
26	Lead (as Pb), mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2) 2019
27	Mercury (as Hg), mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
28	Arsenic (as As), mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2) 2019
29	Total Chromium (as Cr), mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-2) 2019
30	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
31	Total Coliform /100ml)	Not Detected	Not Detected			IS:15185:2016 RA 2021

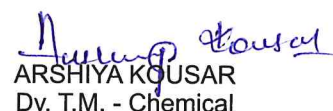
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TEST REPORT

Table No. 23

Name of the Client		: The Sandur Manganese & Iron Ores Limited					
Name of the Project		: Mining Lease No. 2678					
Particulars of sample		: Soil Samples					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)					
Date of sample collection		: 07.12.2024					
Issue Date		: 02.01.2025					
Lab Code			N/24/12/3-0299	N/24/12/3-0300	N/24/12/3-0301	N/24/12/3-0302	N/24/12/3-0303
SL. No.	Sample Code		S1	S2	S3	S4	S5
	PARAMETERS	Unit	Results				
PHYSICAL PROPERTIES							
1	Colour	--	Red Soil	Red Soil	Red Soil	Red Soil	Red Soil
2	Textural class	--	Clay Loam	Sandy Loam	Clay Loam	Clay Loam	Clay Loam
3	Size Distribution						
	Sand	%	30.28	33.25	33.45	32.23	34.12
	Clay	%	45.51	38.63	36.34	39.56	39.53
	Silt	%	24.21	28.12	30.21	28.21	26.35
4	Moisture Content	%	7.51	7.21	7.33	6.82	6.85
5	Bulk Density	gm/cc	1.88	1.72	1.92	1.63	1.61
6	Water holding capacity	%	30.15	29.3	24.21	28.21	22.18
7	pH	--	6.77	6.68	7.31	7.42	6.45
8	EC	m.mohs/cm	0.191	0.266	0.225	0.288	0.181
Chemical Properties							
9	Organic Carbon	%	0.61	0.31	0.23	1.13	1.65
10	Nitrogen as N	Kg/Ha	130	238	130	136	188
11	Phosphorous as P	Kg/Ha	6.56	8.36	7.55	7.85	7.52
12	Potassium as K ₂ O	Kg/Ha	182	128	132	135	152
13	Sodium as Na	mg/kg	32	31	50	35	30
14	Chloride as Cl	mg/kg	130	112	157	138	220
15	Sulphate as SO ₄	mg/kg	32	30	28	33	32
Sample Locations :							
S1 - Top soil (Kammathuru)							
S2 - Top soil (Deogiri)							
S3 - Top soil (SB Halli)							
S4 - Active Dump 1							
S5 - Active Dump 2							

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TEST REPORT

Table No. 24

Name of the Client			: The Sandur Manganese & Iron Ores Limited				
Name of the Project			: Mining Lease No. 2678				
Particulars of sample			: Soil Samples				
Sample Collected by			: Environmental Laboratory (Unit of Mineral Engineering Services)				
Date of sample collection			: 07.12.2024				
Issue Date			: 02.01.2025				
Lab Code			N/24/12/3-0304	N/24/12/3-0305	N/24/12/3-0306	N/24/12/3-0307	N/24/12/3-0308
SL. No.	Sample Code		S6	S7	S8	S9	S10
	PARAMETERS	Unit	Results				
PHYSICAL PROPERTIES							
1	Colour	--	Red Soil	Red Soil	Red Soil	Red Soil	Red soil
2	Textural class	--	Clay Loam	Clay Loam	Slity Clay	Slity Clay	Clay Loam
3	Size Distribution						
	Sand	%	32.78	30.21	36.24	36.24	38.22
	Clay	%	37.17	41.47	34.54	31.58	31.57
	Silt	%	30.05	28.32	29.22	32.18	30.21
4	Moisture Content	%	7.40	6.81	7.45	6.91	6.85
5	Bulk Density	gm/cc	1.22	2.41	1.86	1.89	7.96
6	Water holding capacity	%	33.56	29.24	30.21	32.25	42.41
7	pH	--	7.48	6.88	7.32	7.42	7.71
8	EC	m.mohs/cm	0.428	0.480	0.520	0.391	0.532
Chemical Properties							
9	Organic Carbon	%	0.66	0.63	0.62	0.66	0.48
10	Nitrogen as N	Kg/Ha	130	124	135	172	138
11	Phosphorous as P	Kg/Ha	26	38	48	52	46
12	Potassium as K ₂ O	Kg/Ha	135	162	132	146	142
13	Sodium as Na	mg/kg	50	45	52	40	34
14	Chloride as Cl	mg/kg	32	34	30	35	38
15	Sulphate as SO ₄	mg/kg	26	32	36	32	40
Sample Locations :							
S6 - Appayyanahalli agriculture lan							
S7 - Vitthalanagar agriculture land							
S8 - Swamihalli agriculture land							
S9 -Tonasigere agriculture land							
S10 - Yeshwanthnagar agriculture land							

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TEST REPORT

Table No. 25

Stack Monitoring Report

Report No. 029624123

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Subrayanahalli Manganese & Iron Ore Mine (ML NO. 2678)
Location :	KVH Iron Ore Mines
Stack ID & Capacity :	DG 1010 KVA (808 KW)
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	07.12.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	08.12.2024
Lab Code :	N/24/12/3-0296
Issue date :	02.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	30
3	Stack Temperature ($^{\circ}\text{C}$)	168
4	Velocity (m/s)	14.40
5	Stack diameter (M)	0.30
6	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	3275.3
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 18.11.2025
11	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	NO_x (as NO_2) (as 15% O_2), dry basis	ppmv	24.87	360
2	NMHC (as C) (at 15 % O_2)	mg/ Nm^3	31.11	100
3	PM (as C) (at 15 % O_2)	mg/ Nm^3	28.00	75
4	CO (at 15 % O_2)	(mg/ Nm^3)	42.00	150

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TEST REPORT

Table No. 26

Stack Monitoring Report

Report No. 029724123

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Subrayanahalli Manganese & Iron Ore Mine (ML NO. 2678)
Location :	KVH IO MINES - SB HALLI
Stack ID & Capacity :	10 KVA TOWER LIGHT DG - Lighting
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	07.12.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	08.12.2024
Lab Code :	N/24/12/3-0297
Issue date :	02.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	30
3	Stack Temperature (°C)	142
4	Velocity (m/s)	7.26
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	321
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 18.11.2025
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	0.058	<0.2
2	CO	g/Kw-hr	0.203	<3.5
3	Nox +HC	g/Kw-hr	0.859	<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. 27

Stack Monitoring Report

Report No. 029824123

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Subrayanahalli Manganese & Iron Ore Mine (ML NO. 2678)
Location :	KVH IO MINES - SB HALLI
Stack ID & Capacity :	10KVA DG Sert - Water pumping
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	07.12.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	08.12.2024
Lab Code :	N/24/12/3-0298
Issue date :	02.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	30
3	Stack Temperature (°C)	147
4	Velocity (m/s)	6.21
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	271
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 18.11.2025
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	0.057	<0.2
2	CO	g/Kw-hr	0.414	<3.5
3	Nox +HC	g/Kw-hr	0.839	<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. 28

Stack Monitoring Report

Report No. N031324123

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Kammathuru Iron Ore (KTIO) (ML No. 2678)
Location :	KTIO D-04 DUMP
Stack ID & Capacity :	7.5 KVA DG SET (Open DG) - Lighting
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	09.12.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	10.12.2024
Lab Code :	N/24/12/3-0313
Issue date :	01.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	30
3	Stack Temperature (°C)	136
4	Velocity (m/s)	7.17
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	323
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 18.11.2025
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	0.556	<3.5
3	Nox +HC	g/Kw-hr	0.697	<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. 29

Stack Monitoring Report

Report No. N031424123

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Deogiri Manganese & Iron Ore Mine (ML NO. 2678)
Location :	BMM Plot
Stack ID & Capacity :	35 KVA DG SET - Lighting
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	09.12.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	10.12.2024
Lab Code :	N/24/12/3-0314
Issue date :	02.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	30
3	Stack Temperature ($^{\circ}\text{C}$)	120
4	Velocity (m/s)	8.56
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	399
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 18.11.2025
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	0.068	<0.2
2	CO	g/Kw-hr	0.034	<3.5
3	Nox +HC	g/Kw-hr	0.238	<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. 30

Stack Monitoring Report

Report No : N033824123

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Deogiri Manganese & Iron Ore Mine (ML NO. 2678)
Location :	K-Kolla W/Pump
Stack ID & Capacity :	100 KVA DG SET - Water pumping
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	10.12.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	12.12.2024
Lab Code :	N/24/12/3-0338
Issue date :	02.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	30
3	Stack Temperature (°C)	130
4	Velocity (m/s)	8.14
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm³/hr)	370
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 18.11.2025
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	0.081	<0.2
2	CO	g/Kw-hr	0.081	<3.5
3	Nox +HC	g/Kw-hr	0.355	<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. 31

Stack Monitoring Report

Report No :N025124093

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Deogiri Manganese & Iron Ore Mine (ML NO. 2678)
Location :	Deogiri- Work Shop
Stack ID & Capacity :	250 KVA DG SET - Lighting
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	10.10.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	12.12.2024
Lab Code :	N/24/11/3-0286
Issue date :	02.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	30
3	Stack Temperature (°C)	166
4	Velocity (m/s)	10.26
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	428
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 18.11.2025
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	0.031	<0.2
2	CO	g/Kw-hr	0.099	<3.5
3	Nox +HC	g/Kw-hr	0.188	<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. 32

Stack Monitoring Report

Report No : N025224093

Name of the Client :	The Sandur Manganese & Iron Ores Limited
Name of the Mine :	Deogiri Manganese & Iron Ore Mine (ML NO. 2678)
Location :	Deogiri 86 Quarters
Stack ID & Capacity :	35 KVA DG SET - Colony Ligting
Sample Collected by :	Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection :	10.12.2024
Particulars of Sample Collected :	Emissions from stack collected through stack sample VSS1
Date of Sample Receipt :	12.12.2024
Lab Code :	N/24/12/3-0340
Issue date :	02.01.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	30
3	Stack Temperature ($^{\circ}\text{C}$)	120
4	Velocity (m/s)	8.27
5	Stack diameter (M)	0.15
6	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	386
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 18.11.2025
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	0.088	<0.2
2	CO	g/Kw-hr	0.154	<3.5
3	Nox +HC	g/Kw-hr	0.286	<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. 33

Stack Monitoring Report

Name of the Client	: The Sandur Manganese & Iron Ores Limited
Name of the Mine	: Kammathuru Iron Ore Mine (KTIO) (ML No. 2678)
Mobile Crusher Capacity	: 350 TPH
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Sample Condition When Received	: Satisfactory
Model of the Equipment used for Monitoring	: Emissions from stack collected through stack sample VSS1
Serial No. of the Equipment	: 338 DTH 14
Calibration done on and due on	: Due on 18.11.2025
Sampling and Analysis Method	: IS 11255
Date of Collection	: 21.12.2024
Date of Sample Receipt	: 23.12.2024
Issue date	: 02.01.2025

STACK DETAILS

1	Mobile Crusher Make & code	Power Screening Chieftain 2100	Terex India Pvt Ltd (Jaw Crusher)	Terex India Pvt Ltd (Cone Crusher)	Terex India Pvt Ltd (Jaw Crusher)
2	Lab Code	N/24/12/5-0297	N/24/12/5-0298	N/24/12/5-0299	N/24/12/5-0300
3	Stack height (M)	8	8	8	8
4	Stack diameter (M)	0.07	0.20	0.20	0.20
5	Stack Temperature ($^{\circ}$ C)	35	38	33	40
6	Velocity (m/s)	11.39	10.00	11.81	12.04
7	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	146	1008	1210	1206

Pollutional Parameters (Result)

Sl.No	Parameters	Results			
1	Particulate matter (mg/Nm^3)	48	52	55	52
Permissible limits		Particulate matter (mg/Nm^3) 100			

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TEST REPORT

Table No. 34

Stack Monitoring Report

Name of the Client	: The Sandur Manganese & Iron Ores Limited				
Name of the Mine	: Kammathuru Iron Ore Mine (KTIO) (ML No. 2678)				
Mobile Crusher Capacity	: 250 TPH				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)				
Sample Condition When Received	: Satisfactory				
Model of the Equipment used for Monitoring	: Emissions from stack collected through stack sample VSS1				
Serial No. of the Equipment	: 338 DTH 14				
Calibration done on and due on	: Due on 18.11.2025				
Sampling and Analysis Method	: IS 11255				
Date of Collection	: 23.12.2024				
Date of Sample Receipt	: 24.12.2024				
Issue date	: 02.01.2025				
STACK DETAILS					
1	Mobile Crusher Make & code	Sandvik/ MSP-7	Extech/MSP-7	Chieftatn-1400/MSP-8	Turbo Chieftain-1400/MSP-8
2	Lab Code	N/24/12/5-0306	N/24/12/5-0307	N/24/12/5-0308	N/24/12/5-0309
3	Stack height (M)	8	8	8	48
4	Stack diameter (M)	0.13	0.13	0.07	0.07
5	Stack Temperature ($^{\circ}$ C)	36	30	39	40
6	Velocity (m/s)	11.7	12.1	12.4	12.3
7	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	503.01	528.64	157.00	155.52
Pollutional Parameters (Result)					
Sl.No	Parameters	Results			
1	Particulate matter (mg/Nm ³)	49	50	53	50
Permissible limits		Particulate matter (mg/Nm ³) 100			

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TEST REPORT

Table No. 35

Stack Monitoring Report

Name of the Client	: The Sandur Manganese & Iron Ores Limited
Name of the Mine	: Kammathuru Iron Ore Mine (KTIO) (ML No. 2678)
Mobile Crusher Capacity	: 250 TPH
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Sample Condition When Received	: Satisfactory
Model of the Equipment used for Monitoring	: Emissions from stack collected through stack sample VSS1
Serial No. of the Equipment	: 338 DTH 14
Calibration done on and due on	: Due on 18.11.2025
Sampling and Analysis Method	: IS 11255
Date of Collection	: 24.12.2024
Date of Sample Receipt	: 24.12.2024
Issue date	: 02.01.2025

STACK DETAILS

1	Mobile Crusher Make & code	Terex-Pegson /MCP-1 (cone Crusher)	Terex-Pegson /MCP-1 (Jaw Crusher)
2	Lab Code	N/24/12/5-0310	N/24/12/5-0311
3	Stack height (M)	8	8
4	Stack diameter (M)	0.20	0.20
5	Stack Temperature (°C)	34	36
6	Velocity (m/s)	12.0	12.9
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1223.02	1307.38

Pollutional Parameters (Result)

Sl.No	Parameters	Results	
1	Particulate matter (mg/Nm ³)	52	20
Particulate matter (mg/Nm ³)		100	
Permissible limits			

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TEST REPORT

Table No. 36

Stack Monitoring Report

Report No. N021424124

Name of the Client : The Sandur Manganese & Iron Ores Limited				
Name of the Mine : Deogiri Manganese & Iron Ore Mine (ML NO. 2678)				
Stack ID & Capacity		: Mobile Crusher Capacity : 250 TPH (MSP-4)		
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)		
Particulars of Sample Collected		: Emissions from stack collected through stack sample VSS1		
Date of Collection		: 24.12.2024		
Date of Sample Receipt		: 25.12.2024		
Issue date		: 02.01.2025		
STACK DETAILS				
1	Fuel Used	Diesel		
2	Stack height (M)	8		
3	Stack diameter (M)	0.13		
4	Stack Temperature (°C)	42		
5	Velocity (m/s)	12.84		
6	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1278		
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 18.11.2025		
11	Sampling and Analysis Method	IS 11255		
Pollutional Parameters (Result)				
Sl.No	Parameters	Unit	Results	Permissible limits
1	Particulate Matter	mg/Nm ³	54	100

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TEST REPORT

Table No. 37

RESULTS OF RESIPARBLE AIR-BORNE DUST SURVEY

Name of the Owner : Sandur Manganese & Iron Ores Limited

Name of the Mine : Kammathuru Iron Ore Mine (KTIO) (ML No. 2678)

Sample Collected by: Mr. K Mallikarjuna

Issue Date : 02.01.2025

PERSONAL SAMPLER

SL.N O	DATE OF SAMPLE COLLECTION	Filter paper code	Lab Code	LOCATION / CATEGORY	Name of the person	DURATION OF SAMPLING			Volume of air (Lts)	DUST CONCEN- -TRATION mg/m ³ RPM	*PERMIS- SIBLE LIMIT mg/m ³
						FROM	TO	TOTAL HRS			
1	27.12.2024	257	FS/24/12/6-0001	Excavator operator "A" Block	Srinivas	09:00	16:30	7:30	641.3	0.94	3
2	27.12.2024	259	FS/24/12/6-0002	Truck Driver KA- 35 D- 9366	Eshwar	09:15	16:40	7:25	1079.1	0.74	4
3	27.12.2024	260	FS/24/12/6-0003	Truck Driver KA-35 D-8746	Ramanjini	09:20	16:55	7:35	625.6	1.44	3
4	27.12.2024	607	FS/24/12/6-0004	Wheel Loader operator(Hindustan)	Anil	09:30	17:00	7:30	641.3	0.94	3
5	28.12.2024	258	FS/24/12/6-0007	Ore stock spotter	Dinesh	09:10	16:30	7:20	605.0	1.32	3
6	28.12.2024	256	FS/24/12/6-0008	Excavator operator "B" Block	Santosh pandit	09:15	16:35	7:20	605.0	1.49	3
7	28.12.2024	261	FS/24/12/6-0009	Wheel Loader operator operator "B" Block	Rama swamy	09:20	16:25	7:05	605.6	1.32	3
8	28.12.2024	605	FS/24/12/6-0010	Dump Spotter	Shivananda	09:30	17:00	7:30	641.3	1.25	3

STATIC SAMPLER

SL.N O	DATE OF SAMPLE COLLECTION	Filter paper code	Lab Code	LOCATION / CATEGORY	Name of the person	DURATION OF SAMPLING			Volume of air (Lts)	DUST CONCEN- -TRATION mg/m ³ RPM	*PERMIS- SIBLE LIMIT mg/m ³
						FROM	TO	TOTAL HRS			
9	27.12.2024	608	FS/24/12/6-0005	Haulage Road	Static	9:50	17:05	7:15	604.7	1.49	3
10	27.12.2024	609	FS/24/12/6-0006	Mobile screening	Static	9:55	17:10	7:15	870.0	1.61	3
11	28.12.2024	604	FS/24/12/6-0011	Dump Point	Static	9:40	17:00	7:20	611.6	1.14	3
12	28.12.2024	606	FS/24/12/6-0012	Ore stock Point	Static	09:50	17:10	7:20	770.0	1.04	3

*Note: Free Silica Analysis report for Kammathuru Iron Ore Mine (KTIO) (ML No. 2678) show less than 5% Free silica
the permissible limit for dust concentration shall be 3 mg/m³ (Ref : DGMS Reg 124(2) of MMR,1961)

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TEST REPORT

Table No. 38

Free Silica Analysis Report

Name of the Owner : Sandur Manganese & Iron Ores Limited

Name of the Mine : Kammathuru Iron Ore Mine (KTIO) (ML No. 2678)

Sample Collected by: Mr. K Mallikarjuna

Report No : ELMES182412

Issue Date : 02.01.2025

SL.NO	DATE OF SAMPLE COLLECTION	LOCATION / CATEGORY	Name of the person / Static	Free Silica Content (%)	Free Silica Limits (%)
PERSONAL SAMPLER					
1	27.12.2024	Excavator operator "A" Block	Srinivas	ND	5
2	27.12.2024	Truck Driver KA- 35 D-9366	Eshwar	ND	5
3	27.12.2024	Truck Driver KA-35 D-8746	Ramanjini	ND	5
4	27.12.2024	Wheel Loader operator(Hindustan)	Anil	ND	5
5	28.12.2024	Ore stock spotter	Dinesh	ND	5
6	28.12.2024	Excavator operator "B" Block	Santosh pandit	ND	5
7	28.12.2024	Wheel Loader operator operator "B" Block	Rama swamy	ND	5
8	28.12.2024	Dump Spotter	Shivananda	ND	5
STATIC SAMPLER					
9	27.12.2024	Haulage Road	Static	ND	5
10	27.12.2024	Mobile screening	Static	ND	5
11	28.12.2024	Dump Point	Static	ND	5
12	28.12.2024	Ore stock Point	Static	ND	5
Note: ND-Not Detected, Detection Level : 0.0005%					

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