

ENVIRONMENTAL MONITORING REPORT

December, 2024

PROJECT: RAMANADURGA IRON ORE MINE

**ML NO. 2141
Dharmapura Village
Sandur Taluk, Ballari District,
Karnataka**

Lessee

M/S. Sri. KUMARASWAMY MINERAL EXPORTS PVT. LTD.,

**D. No. 462, SMIORE Colony,
Near Fire Station, Kudligi Road
SANDUR - 583119
BELLARY, KARNATAKA**

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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(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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

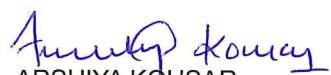
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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Kumaraswamy Mineral Exports Pvt. Ltd					
Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - I, Dharmapura					
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	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
06.12.2024	N/24/12/3-0095	11	16	42	26
07.12.2024	N/24/12/3-0185	12	15	51	26
13.12.2024	N/24/12/4-0168	5	13	56	32
14.12.2024	N/24/12/4-0222	9	12	42	22
16.12.2024	N/24/12/5-0007	8	14	50	26
17.12.2024	N/24/12/5-0047	9	11	47	26
25.12.2024	N/24/12/6-0157	9	12	54	28
26.12.2024	N/24/12/6-0184	11	18	53	27
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs


 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	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd				
Name of the Project	: Ramanadurga Iron Ore Mine (ML No. 2141)				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)				
Station at & Code	: A - II, Yeshwanthanagar				
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	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
06.12.2024	N/24/12/3-0085	10	11	47	20
07.12.2024	N/24/12/3-0176	10	16	37	20
09.12.2024	N/24/12/4-0014	12	15	56	30
10.12.2024	N/24/12/4-0072	9	12	49	27
20.12.2024	N/24/12/5-0148	7	11	54	28
21.12.2024	N/24/12/5-0228	11	14	50	24
23.12.2024	N/24/12/6-0029	10	18	47	23
24.12.2024	N/24/12/6-0092	12	15	55	27
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd					
Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - III, Sushila Nagar village					
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	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
02.12.2024	N/24/12/3-0002	11	13	37	19
03.12.2024	N/24/12/3-0019	12	15	46	24
11.12.2024	N/24/12/4-0120	9	11	51	28
12.12.2024	N/24/12/4-0144	10	14	57	32
16.12.2024	N/24/12/5-0015	11	13	50	27
17.12.2024	N/24/12/5-0056	7	9	48	26
25.12.2024	N/24/12/6-0163	8	12	38	18
26.12.2024	N/24/12/6-0190	9	11	43	24
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs


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Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd					
Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - IV Sandur Town					
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	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
04.12.2024	N/24/12/3-0032	11	12	44	25
05.12.2024	N/24/12/3-0057	11	12	35	18
11.12.2024	N/24/12/4-0124	12	17	45	28
12.12.2024	N/24/12/4-0148	10	14	58	30
18.12.2024	N/24/12/5-0081	14	18	58	33
19.12.2024	N/24/12/5-0094	10	11	48	25
27.12.2024	N/24/12/6-0201	8	10	39	20
28.12.2024	N/24/12/6-0238	11	17	43	25
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd					
Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A - V Core zone 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	
				PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
02.12.2024	N/24/12/3-0003	7	10	51	28
03.12.2024	N/24/12/3-0020	8	10	44	23
11.12.2024	N/24/12/4-0121	9	13	50	28
12.12.2024	N/24/12/4-0145	9	10	47	25
16.12.2024	N/24/12/5-0016	13	11	49	27
17.12.2024	N/24/12/5-0057	9	13	53	28
25.12.2024	N/24/12/6-0164	9	11	54	30
26.12.2024	N/24/12/6-0191	7	11	48	26
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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Table No. 6

Fugitive Emission

Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd		
Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)		
Sample Collected by : Environmental Laboratory		
(Unit of Mineral Engineering Services)		
Station at & Code : A - VI, Loading point		
Duration : 08 Hrs		
Issue date : 02.01.2025		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
02.13.2024	N/24/12/3-0014	321
11.12.2024	N/24/12/4-0122	456

Station at & Code : A - VII, Crushing & Screening		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
03.12.2024	N/24/12/3-0021	485
12.12.2024	N/24/12/4-0146	396

Station at & Code : A - VIII, Dumping point		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
02.13.2024	N/24/12/3-0015	433
11.12.2024	N/24/12/4-0123	488

Station at & Code : A - IX, Haulage Road		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
03.12.2024	N/24/12/3-0022	463
12.12.2024	N/24/12/4-0147	399
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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Table No. 7

STATISTICAL AIR QUALITY DATA

Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)												
Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd												
Month : December, 2024												
Station Code : A - I, Dharmapura					A - II, Yeshwanthanagar				A - III, Sushila Nagar village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	5	11	42	22	7	11	37	20	7	9	37	18
10%	7	12	42	25	8	11	44	20	8	10	38	19
25%	9	12	46	26	10	12	47	22	9	11	42	23
50%	9	14	51	26	10	15	50	26	10	13	47	25
75%	11	15	53	27	11	15	54	27	11	13	50	27
98%	12	18	56	31	12	18	56	30	12	15	56	31
Max.	12	18	56	32	12	18	56	30	12	15	57	32
Avg.	9	14	49	27	10	14	49	25	10	12	46	25
SD	2	2	5	3	2	3	6	4	2	2	7	5
No. of obs	8				8				8			
Station Code : A - IV Sandur Town					A - V Core zone Within ML Area							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	8	10	35	18	7	10	44	23				
10%	9	11	38	19	7	10	46	24				
25%	10	12	42	24	8	10	48	26				
50%	11	13	45	25	9	11	50	28				
75%	11	17	51	29	9	12	52	28				
98%	14	18	58	33	12	13	54	30				
Max.	14	18	58	33	13	13	54	30				
Avg.	11	14	46	26	9	11	50	27				
SD	2	3	8	5	2	1	3	2				
No. of obs	8				8							


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