

ENVIRONMENTAL MONITORING REPORT

Project	Ramanadurga Iron Ore Mine ML NO. 2141
Location	Dharmapura Village, Sandur Taluk, Ballari District, Karnataka
Client	M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd.,
Office Address	D. No. 462, SMIORE Colony, Near Fire Station, Kudligi Road Sandur – 583119, Bellary, Karnataka
Monitoring Month	June-2025

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services LLP)

(Accredited by NABL & MOEF&CC Under E(P) Act 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 5
2	Fugitive Emission	6
3	Statistical Air Quality	7
4	Water Test Report As per IS 2296	8



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TEST REPORT

Table No. 1

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 LLP)					
Particulars of sample collected : AI - Dharmapura					
Duration : 24 Hrs					
Issue date : 02.07.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Report No	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)
06.06.2025	N014925062	10	12	54	28
07.06.2025	N004225063	9	11	58	30
13.06.2025	N027025063	7	9	50	26
14.06.2025	N033425063	8	10	47	24
16.06.2025	N002025064	7	9	36	21
17.06.2025	N006825064	9	11	51	27
25.06.2025	N020425065	12	13	53	28
26.06.2025	N025125065	10	12	40	23
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM. - Chemical
Govt. Analyst / Authorised Signatory

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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 LLP)					
Particulars of sample collected : All - Yeshwanthanagar					
Duration : 24 Hrs					
Issue date : 02.07.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Report No	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)
06.06.2025	N013825062	13	17	51	18
07.06.2025	N003225063	10	12	43	22
09.06.2025	N011525063	9	12	45	25
10.06.2025	N017025063	9	11	53	28
20.06.2025	N14825064	8	10	58	30
21.06.2025	N001725065	9	12	40	23
23.06.2025	N008525065	7	13	47	23
24.06.2025	N014625065	11	12	50	29
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 LLP)					
Particulars of sample collected : AIII - Sushila Nagar village					
Duration : 24 Hrs					
Issue date : 02.07.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Report No	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)
06.06.2025	N015125062	8	11	51	25
07.06.2025	N004425063	9	15	60	33
11.06.2025	N021525063	12	11	53	23
12.06.2025	N023925063	10	12	42	21
16.06.2025	N002225064	7	9	48	25
17.06.2025	N007025064	11	13	57	33
25.06.2025	N020625065	9	11	51	28
26.06.2025	N025325065	6	13	46	24
Limits for Industrial , Residential, Rural and other Areas		80	80	100	60
		24 Hrs	24 Hrs	24 Hrs	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 LLP)					
Particulars of sample collected : AIV - Sandur Town					
Duration : 24 Hrs					
Issue date : 02.07.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Report No	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)
06.06.2025	N015225062	8	15	54	28
07.06.2025	N004525063	7	12	63	33
11.06.2025	N021625063	10	14	45	26
12.06.2025	N024025063	8	12	35	18
16.06.2025	N002325064	11	17	50	27
17.06.2025	N007125064	12	13	55	28
25.06.2025	N020725065	7	9	60	31
26.06.2025	N025425065	9	11	49	29
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 LLP)					
Particulars of sample collected : AV - Core zone Within ML Area					
Duration : 24 Hrs					
Issue date : 02.07.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Report No	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)
06.06.2025	N015325062	10	19	47	25
07.06.2025	N004625063	8	10	40	22
11.06.2025	N021725063	11	14	44	25
12.06.2025	N024125063	10	15	42	24
16.06.2025	N002425064	8	13	47	24
17.06.2025	N007225064	10	15	53	26
25.06.2025	N020825065	12	16	55	30
26.06.2025	N025525065	8	14	39	21
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 LLP)	
Particulars of sample collected	: FE1 - Loading point	
Duration	: 08 Hrs	
Issue date	: 02.07.2025	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
06.06.2025	N015425062	368
11.06.2025	N021825063	286

Particulars of sample collected	: FE2 - Crushing & Screening	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
07.06.2025	N004725063	387
12.06.2025	N024225063	345

Particulars of sample collected	: FE3 - Dumping point	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
06.06.2025	N015525062	396
11.06.2025	N021925063	321

Particulars of sample collected	: FE4 - Haulage Road	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
07.06.2025	N004825063	365
12.06.2025	N024325063	287
Ref	: Environmental (Protection) Rules, 2010 (Sixth Amendment)	
Permissible limits for Fugitive Emissions	Particulate mater ($\mu\text{g}/\text{m}^3$) 600 $\mu\text{g}/\text{m}^3$	

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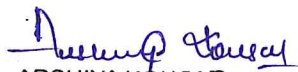
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TEST REPORT

Table No. 7

STATISTICAL AIR QUALITY DATA

Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd												
Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)												
Month : June, 2025												
	AI - Dharmapura				All - Yeshwanthanagar				All - 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.	7	9	36	21	7	10	40	18	6	9	42	21
10%	7	9	39	22	8	11	42	21	7	10	45	22
25%	8	10	45	24	9	12	45	23	8	11	48	24
50%	9	11	51	27	9	12	49	24	9	12	51	25
75%	10	12	53	28	10	12	52	28	10	13	54	29
98%	12	13	57	30	13	16	57	30	12	15	60	33
Max.	12	13	58	30	13	17	58	30	12	15	60	33
Avg.	9	11	49	26	10	12	48	25	9	12	51	27
SD	2	1	7	3	2	2	6	4	2	2	6	4
No. of obs	8				8				8			
	AIV - Sandur Town				AV - Core zone Within ML Area							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	7	9	35	18	8	10	39	21				
10%	7	10	42	24	8	12	40	22				
25%	8	12	48	27	8	14	42	24				
50%	9	13	52	28	10	15	46	25				
75%	10	14	56	30	10	15	49	25				
98%	12	17	63	33	12	19	55	29				
Max.	12	17	63	33	12	19	55	30				
Avg.	9	13	51	28	10	15	46	25				
SD	2	2	9	4	2	3	6	3				
No. of obs	8				8							


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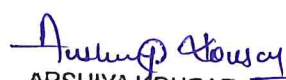
TEST REPORT

Table No.8

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 LLP)			
Particulars of sample collected		: SW1 - Nari Halla Up Stream water, SW2 - Nari Halla Down Stream water			
Date of sample collection		: 09.06.2025			
Date of sample receipt		: 10.06.2025			
Issue Date		: 17.06.2025			
Ref : IS : 2296 Water Quality Standards					
Report No		M002125062	M002225062	Limits	Method of Testing
Sample Code		SW1	SW2		
Sl.No.	Parameters	Results		Limits	Method of Testing
1	Colour (Hazen Units)	10	10	300	IS:3025(Part-4)2021
2	pH	7.85	8.04	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.5	5.4	Min 4	IS:3025(Part-38)1989RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	3	IS:3025(P-44) 2014
5	Total Coliform (MPN/100ml)	50	55	5000	IS:1622:1981
6	Total Dissolved Solids, (mg/l)	204	238	1500	IS:3025(Part-16)2023
7	Chloride (as Cl),mg/l	50.0	65	600	IS:3025(Part-32) ;1988RA2019
8	Sulphates as SO ₄ (mg/l)	16.0	20	400	IS:3025(P-24)Sec 1 2022
9	Nitrates (as NO ₃),mg/l	15.00	17.50	50	IS:3025(Part-34)1988 RA 2019
10	Fluoride (as F),mg/l	0.86	0.90	1.5	APHA 23rd Edition 4500F
11	Copper (as Cu),mg/l	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
12	Iron (as Fe),mg/l	<0.005	<0.005	50	IS:3025(P-2) 2019
13	Zinc (as Zn),mg/l	<0.005	<0.005	15	IS:3025(P-2) 2019
14	Total Arsenic (as As), (mg/l)	<0.002	<0.002	0.2	IS:3025(Part-37)
15	Lead (as Pb), mg/l	<0.005	<0.005	0.1	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Hexavalent Chromium (as Cr ⁺⁶), mg/l	<0.03	<0.03	0.05	IS:3025(P-52) 2014
18	Selenium (as Se), mg/l	<0.005	<0.005	0.05	IS:3025(P-2) 2019
19	Cyanide (as CN), mg/l	<0.005	<0.005	0.05	IS:3025(P-27) Sec 1 2021
20	Phenolic compounds (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	1.0	IS:3025(Part-68)

""END OF REPORT""


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