

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	August-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

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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 : 02.09.2025					
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)
08.08.2025	N019725082	9	9	50	26
09.08.2025	N001025083	4	9	45	22
13.08.2025	N022025083	10	11	25	16
14.08.2025	N025125083	12	14	33	18
18.08.2025	N004125084	13	14	30	16
19.08.2025	N007725084	9	12	47	23
25.08.2025	N008125085	5	9	52	29
26.08.2025	N016225085	8	9	44	24
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 : 02.09.2025					
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)
06.08.2025	N011625082	11	13	49	25
07.08.2025	N015825082	9	12	43	20
11.08.2025	N007425083	5	9	31	18
12.08.2025	N014925083	6	9	38	20
22.08.2025	N017125084	9	11	50	26
23.08.2025	N001425085	10	13	43	23
25.08.2025	N007325085	12	15	53	28
26.08.2025	N015425085	10	11	35	18
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs


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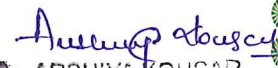
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TEST REPORT

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 : 02.09.2025 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)
04.08.2025	N003925082	6	9	36	18
05.08.2025	N007225082	8	12	40	26
11.08.2025	N008025083	6	9	45	16
12.08.2025	N015325083	5	10	42	22
18.08.2025	N004325084	8	10	37	17
19.08.2025	N007925084	4	9	30	15
25.08.2025	N008325085	9	11	45	18
26.08.2025	N016425085	7	13	40	18
Limits for Industrial , Residential, Rural and other Areas		80	80	100	60
		24 Hrs	24 Hrs	24 Hrs	24 Hrs


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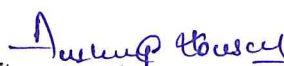
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Table No. 4

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 : 02.09.2025					
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)
04.08.2025	N004025082	6	11	52	28
05.08.2025	N007325082	8	10	47	25
11.08.2025	N008125083	7	13	40	23
12.08.2025	N015425083	7	9	33	19
18.08.2025	N004425084	7	9	48	25
19.08.2025	N008025084	7	9	44	27
25.08.2025	N008425085	10	13	50	26
26.08.2025	N016525085	9	9	54	30
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 : 02.09.2025					
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)
04.08.2025	N004125082	6	10	42	26
05.08.2025	N007425082	9	11	37	18
11.08.2025	N008225083	8	9	33	16
12.08.2025	N015525083	7	11	28	15
18.08.2025	N004525084	6	10	25	14
19.08.2025	N008125084	9	11	34	18
25.08.2025	N008525085	5	9	47	26
26.08.2025	N016625085	7	9	50	28
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	: 02.09.2025	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
04.08.2025	N004225082	255
11.08.2025	N008325083	196

Particulars of sample collected	: FE2 - Crushing & Screening	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
05.08.2025	N007525082	230
12.08.2025	N015625083	211

Particulars of sample collected	: FE3 - Dumping point	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
04.08.2025	N004325082	241
11.08.2025	N008425083	168

Particulars of sample collected	: FE4 - Haulage Road	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
05.08.2025	N007625082	220
12.08.2025	N015725083	182
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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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 : August, 2025												
	AI - Dharmapura				AII - Yeshwanthanagar				AIII - 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.	4	9	25	16	5	9	31	18	4	9	30	15
10%	5	9	29	16	6	9	34	18	5	9	34	16
25%	7	9	32	18	8	11	37	20	6	9	37	17
50%	9	10	45	23	10	12	43	22	7	10	40	18
75%	11	13	48	25	10	13	49	25	8	11	43	19
98%	13	14	52	29	12	15	53	28	9	13	45	25
Max.	13	14	52	29	12	15	53	28	9	13	45	26
Avg.	9	11	41	22	9	12	43	22	7	10	39	19
SD	3	2	10	5	2	2	8	4	2	2	5	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.	6	9	33	19	5	9	25	14				
10%	7	9	38	22	6	9	27	15				
25%	7	9	43	25	6	9	32	16				
50%	7	10	48	26	7	10	36	18				
75%	8	12	51	27	8	11	43	26				
98%	10	13	54	30	9	11	50	28				
Max.	10	13	54	30	9	11	50	28				
Avg.	8	10	46	25	7	10	37	20				
SD	1	2	7	3	1	1	9	6				
No. of obs	8				8							

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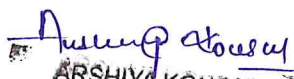
TEST REPORT

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		: 05.08.2025			
Date of sample receipt		: 06.08.2025			
Issue Date		: 02.09.2025			
Ref : IS : 2296 Water Quality Standards					
Report No		M001225082	M001325082	Limits	Method of Testing
Sample Code		SW1	SW2		
Sl.No.	Parameters	Results			
1	Colour (Hazen Units)	10	8	300	IS 3025 (Part 4) 2021
2	pH	7.76	7.90	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.70	5.60	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	Max 3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	130	94	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	550	506	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	120.0	125.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	60.0	50.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO ₃),mg/l	30.00	20.00	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.56	0.52	1.5	IS 3025 (Part 60-Sec1) 2023
11	Copper (as Cu),mg/l	<0.0005	<0.0005	1.5	IS 3025 (Part 65) 2022
12	Iron (as Fe),mg/l	<0.005	<0.005	50	IS 3025 (Part 65) 2022
13	Zinc (as Zn),mg/l	<0.005	<0.005	15	IS 3025 (Part 65) 2022
14	Total Arsenic (as As), (mg/l)	<0.0005	<0.0005	0.2	IS 3025 (Part 65) 2022
15	Lead (as Pb), mg/l	<0.0005	<0.0005	0.1	IS 3025 (Part 65) 2022
16	Cadmium (as Cd), mg/l,	<0.0005	<0.0005	0.01	IS 3025 (Part 65) 2022
17	Hexavalent Chromium (as Cr ⁺⁶), mg/l,	<0.03	<0.03	0.05	IS 3025 (Part 52):2019 RA 2023
18	Selenium (as Se), mg/l	<0.0005	<0.0005	0.05	IS 3025 (Part 65) 2022
19	Cyanide (as CN), mg/l,	<0.01	<0.01	0.05	IS 3025 (Part 27/Sec1) 2021
20	Phenolic compounds (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	0.005	IS 3025 (Part 43/Sec1) 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	1.0	IS 3025 (Part 68) 2023

""END OF REPORT""


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