

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	November, 2025

ENVIRONMENTAL LABORATORY **(Unit of Mineral Engineering Services LLP)**

Recognised by MoEF&CC Under E(P) Act 1986

&

Accredited by NABL

#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)
Location : Dharmapura Village, Sandur Taluk, Ballari District, Karnataka
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Code & Station : AI - Dharmapura
Duration : 24 Hrs
Issue date : 03.12.2025
Sampling & Test Method : 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)
07.11.2025	N012425112	5	9	43	23
08.11.2025	N002725113	8	10	47	26
14.11.2025	N028525113	9	11	53	28
15.11.2025	N000925114	10	12	43	22
17.11.2025	N006325114	6	9	32	18
18.11.2025	N012025114	10	12	45	23
26.11.2025	N020125115	12	16	55	30
27.11.2025	N024125115	10	14	50	27
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya K PUSAR
ARSHIYA KPUSAR
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)				
Location	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: All - Yeshwanthanagar				
Duration	: 24 Hrs				
Issue date	: 03.12.2025				
Sampling & Test Method : 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)
07.11.2025	N011325112	6	13	33	17
08.11.2025	N001725113	9	12	47	25
10.11.2025	N011325113	9	10	36	16
11.11.2025	N017125113	8	12	49	26
21.11.2025	N021825114	7	10	38	19
22.11.2025	N001525115	8	10	47	25
24.11.2025	N007725115	9	12	38	21
25.11.2025	N014125115	8	13	52	28
NAAQS 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)
Location : Dharmapura Village, Sandur Taluk, Ballari District, Karnataka
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Code & Station : AIII - Sushila Nagar village
Duration : 24 Hrs
Issue date : 03.12.2025
Sampling & Test Method : 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)
05.11.2025	N006325112	5	9	35	21
08.11.2025	N002925113	12	16	55	32
14.11.2025	N028825113	9	12	49	25
15.11.2025	N001225114	7	13	40	23
17.11.2025	N006725114	12	18	52	27
18.11.2025	N012425114	9	11	45	25
26.11.2025	N020325115	10	12	54	28
27.11.2025	N024325115	12	13	45	15
NAAQS 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)				
Location	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AIV - Sandur Town				
Duration	: 24 Hrs				
Issue date	: 03.12.2025				
Sampling & Test Method : 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)
05.11.2025	N007225112	7	10	55	31
06.11.2025	N009125112	9	11	53	27
12.11.2025	N022325113	6	9	47	24
13.11.2025	N025325113	7	10	51	26
19.11.2025	N017025114	8	13	48	22
20.11.2025	N019025114	10	14	39	21
26.11.2025	N020925115	10	16	58	32
27.11.2025	N024925115	12	18	36	21
NAAQS 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)				
Location	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Code & Station	: AV - Core zone Within ML Area				
Duration	: 24 Hrs				
Issue date	: 03.12.2025				
Sampling & Test Method	: 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)
05.11.2025	N006425112	9	11	56	30
08.11.2025	N003025113	9	10	50	27
14.11.2025	N028925113	7	9	46	24
15.11.2025	N001325114	8	11	44	23
17.11.2025	N006825114	7	10	35	18
18.11.2025	N012525114	12	16	53	27
26.11.2025	N020425115	11	13	42	22
27.11.2025	N024425115	9	10	35	21
NAAQS 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)	
Location	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka	
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)	
Code & Station	: FE1 - Loading point	
Duration	: 08 Hrs	
Issue date	: 03.12.2025	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
05.11.2025	N006525112	355
14.11.2025	N029025113	286

Code & Station	: FE2 - Crushing & Screening	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
08.11.2025	N003125113	412
15.11.2025	N001425114	387

Code & Station	: FE3 - Dumping point	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
05.11.2025	N006625112	422
14.11.2025	N029125113	378

Code & Station	: FE4 - Haulage Road	
Duration	: 08 Hrs	
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
08.11.2025	N003225113	389
15.11.2025	N001525114	356
Ref : As per CFO in Annexure - II issued KSPCB		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 Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd												
Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)												
Month : November, 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.	5	9	32	18	6	10	33	16	5	9	35	15
10%	6	9	40	21	7	10	35	17	6	10	39	19
25%	8	10	43	23	8	10	38	19	9	12	44	23
50%	10	12	46	25	8	12	43	23	10	13	47	25
75%	10	13	51	27	9	12	48	25	12	14	53	27
98%	12	16	55	30	9	13	52	28	12	18	55	31
Max.	12	16	55	30	9	13	52	28	12	18	55	32
Avg.	9	12	46	25	8	12	43	22	10	13	47	25
SD	2	2	7	4	1	1	7	4	3	3	7	5
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	36	21	7	9	35	18				
10%	7	9	38	21	7	9	35	20				
25%	8	10	45	22	8	10	40	22				
50%	10	11	50	25	9	10	45	24				
75%	10	13	54	28	11	12	51	27				
98%	12	17	58	32	12	16	56	30				
Max.	12	18	58	32	12	16	56	30				
Avg.	9	12	48	26	9	11	45	24				
SD	2	3	8	4	2	2	8	4				
No. of obs	8				8							

Arshiya K Busar
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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)
Location	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Nature of sample	: Surface water
Sample Location	: SW1 - Nari Halla Up Stream water, SW2 - Nari Halla Down Stream water
Date of sample collection	: 07.11.2025
Date of sample receipt	: 08.11.2025
Issue Date	: 03.12.2025
Ref : IS : 2296 Water Quality Standards	

Report No		M000125113	M000225113	Limits	Method of Testing
Sample Code		SW1	SW2		
Sl.No.	Parameters	Results			
1	Colour (Hazen Units)	10	10	300	IS 3025 (Part 4) 2021
2	pH	7.58	7.60	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.50	5.30	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)	72	43	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	408	400	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	120.0	130.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	80.0	70.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO ₃),mg/l	23.50	24.80	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.72	0.75	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

Note : Class-C Drinking water with conventional treatment followed by disinfection.

"END OF REPORT"

BINUMANI

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