

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	February -2026

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	: 02.03.2026				
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)
06.02.2026	N012026021	7	11	50	28
07.02.2026	N003026022	10	13	40	21
13.02.2026	N030426022	13	18	57	30
14.02.2026	N000726023	11	15	55	27
16.02.2026	N004826023	9	13	48	25
17.02.2026	N009426023	10	14	45	24
25.02.2026	N021626024	14	17	50	28
26.02.2026	N025526024	12	15	56	32
NAAQS 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)				
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	: 02.03.2026				
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)
06.02.2026	N010926021	10	14	48	25
07.02.2026	N002026022	14	17	56	32
09.02.2026	N011126022	12	15	52	27
10.02.2026	N017726022	10	14	47	25
20.02.2026	N019626023	13	16	50	30
21.02.2026	N000926024	11	13	56	32
23.02.2026	N007926024	12	18	43	25
24.02.2026	N014926024	10	13	49	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	: All - Sushila Nagar village				
Duration	: 24 Hrs				
Issue date	: 02.03.2026				
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)
06.02.2026	N012226021	11	15	56	32
07.02.2026	N003226022	10	13	46	26
09.02.2026	N011326022	13	19	50	30
10.02.2026	N017926022	9	14	40	22
16.02.2026	N005226023	8	11	44	24
17.02.2026	N009626023	10	12	59	33
25.02.2026	N021826024	12	15	52	28
26.02.2026	N025726024	14	19	55	31
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				
Duration	: 24 Hrs				
Issue date	: 02.03.2026				
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)
04.02.2026	N007426021	14	18	58	32
05.02.2026	N009826021	11	16	50	28
11.02.2026	N026326022	9	13	47	26
12.02.2026	N029526022	10	12	55	30
18.02.2026	N015626023	11	17	43	24
19.02.2026	N018426023	12	14	52	27
25.02.2026	N024526024	9	12	57	33
26.02.2026	N028426024	7	11	37	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	: 02.03.2026				
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)
06.02.2026	N012326021	12	16	45	27
07.02.2026	N003326022	10	11	57	32
09.02.2026	N011426022	13	16	46	25
10.02.2026	N018026022	7	12	40	24
16.02.2026	N005326023	14	16	54	30
17.02.2026	N009726023	11	13	52	27
25.02.2026	N021926024	7	12	41	22
26.02.2026	N025826024	13	19	56	30
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)		
Duration	: 08 Hrs		
Issue Date	: 02.03.2026		
Code & Station	Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
FE1 - Loading point	07.02.2026	N003426022	268
	10.02.2026	N018126022	366
FE2 - Crushing & Screening	06.02.2026	N012426021	454
	09.02.2026	N011526022	375
FE3 - Dumping point	07.02.2026	N003526022	432
	10.02.2026	N018226022	468
FE4 - Haulage Road	06.02.2026	N012526021	422
	09.02.2026	N011626022	375
Ref : As per CFO in Annexure - II issued KSPCB			
Permissible limits for Fugitive Emissions			Particulate Mater ($\mu\text{g}/\text{m}^3$) 600 $\mu\text{g}/\text{m}^3$

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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 : February, 2026												
	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.	7	11	40	21	10	13	43	25	8	11	40	22
10%	8	12	44	23	10	13	46	25	9	12	43	23
25%	10	13	47	25	10	14	48	25	10	13	46	26
50%	11	15	50	28	12	15	50	28	11	15	51	29
75%	12	16	55	29	12	16	53	31	12	16	55	31
98%	14	18	57	32	14	18	56	32	14	19	59	33
Max.	14	18	57	32	14	18	56	32	14	19	59	33
Avg.	11	15	50	27	12	15	50	28	11	15	50	28
SD	2	2	6	3	2	2	4	3	2	3	7	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	11	37	21	7	11	40	22				
10%	8	12	41	23	7	12	41	23				
25%	9	12	46	26	9	12	44	25				
50%	11	14	51	28	12	15	49	27				
75%	11	16	56	31	13	16	55	30				
98%	14	18	58	33	14	19	57	32				
Max.	14	18	58	33	14	19	57	32				
Avg.	10	14	50	28	11	14	49	27				
SD	2	3	7	4	3	3	7	3				
No. of obs	8				8							

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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	: 06.02.2026
Date of sample receipt	: 07.02.2026
Issue Date	: 02.03.2026
Ref : IS : 2296 Water Quality Standards	

Report No		M000126022	M000226022	Limits	Method of Testing
Sample Code		SW1	SW2		
Sl.No.	Parameters	Results			
1	Colour (Hazen Units)	5	10	300	IS 3025 (Part 4) 2021
2	pH	8.20	8.09	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.50	5.40	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)	98	110	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	1026	784	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	330.0	270.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	50.0	30.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO ₃),mg/l	36.00	32.00	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.46	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

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

""END OF REPORT""

BINU MANI

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TEST REPORT

Table No. 9

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	: Soil
Date of sample collection	: 09.02.2026
Issue Date	: 02.03.2026

Sl. No.	Lab Code		M000626022	M000726022	M000826022	M000926022	Normal	High
	Sample Code		S1	S2	S3	S4		
PARAMETERS		Unit	Results					
PHYSICAL PROPERTIES								
1	Colour	—	Red soil	Red soil	Red Soil	Red Soil	—	—
2	Textural class	—	LOAM	Clay Loam	LOAM	LOAM	—	—
3	Size Distribution							
	Sand	%	38.77	34.66	42.22	36.44	—	—
	Clay	%	30.22	32.55	38.44	28.24	—	—
	Silt	%	31.01	32.79	19.34	35.32	—	—
4	Moisture Content	%	10.33	11.66	10.22	10.88	—	—
5	Bulk Density	gm/cc	1.90	1.88	1.56	1.44	—	—
6	Water holding capacity	%	36.77	38.42	28.22	30.22	—	—
7	pH	—	7.22	7.42	6.88	7.22	6.30	>8.30
8	EC	m.mohs/cm	0.357	0.425	0.364	0.324	1.0 to 2.0	>2
Chemical Properties								
9	Organic Carbon	%	0.77	0.66	0.72	0.65	0.5 to 0.75	>0.75
10	Nitrogen as N	Kg/Ha	320	344	380	288	280-560	>560
11	Phosphorous as P	Kg/Ha	10.24	10.21	11.45	10.32	9 to 22	>22
12	Potassium as K ₂ O	Kg/Ha	114	118	120	114	50 to 120	>120
13	Sodium as Na	mg/kg	38.66	28.00	37.44	39.00	—	—
14	Chloride as Cl	mg/kg	32.44	32.00	36.00	40.00	—	—
15	Sulphate as SO ₄	mg/kg	36.00	33.00	42.00	44.00	—	—
Sample Location :								
S1 - Sushila Nagar Agricultural Land								
S2 - Yeshwanthanagar Agricultural Land								
S3 - Dharmapura Agricultural Land								
S4 - Dump soil with in the lease area								

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