

# ENVIRONMENTAL MONITORING REPORT

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

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

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

&

Accredited by NABL

#948, 2<sup>nd</sup> Cross, Kammanahalli Main Road,

St Thomas Town Post,

Bangalore- 560 084, Karnataka

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## TEST REPORT

Table No. 1

### AMBIENT AIR QUALITY

<b>Name of the Client</b>	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd				
<b>Name of the Project</b>	: Ramanadurga Iron Ore Mine (ML No. 2141)				
<b>Location</b>	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
<b>Sample Collected by</b>	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
<b>Code &amp; Station</b>	: AI - Dharmapura				
<b>Duration</b>	: 24 Hrs				
<b>Issue date</b>	: 02.01.2026				
<b>Sampling &amp; Test Method</b>	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Particulate Matter	
				PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )
05.12.2025	N010825121	11	13	56	27
06.12.2025	N002725122	10	15	50	20
12.12.2025	N027625122	13	18	47	23
13.12.2025	N00162523	8	10	46	25
15.12.2025	N00752523	11	13	55	29
16.12.2025	N01272523	8	15	58	32
24.12.2025	N019325124	12	17	51	27
25.12.2025	N023625124	11	13	39	27
<b>NAAQS Limits for Industrial , Residential, Rural and other Areas</b>		<b>80 24 Hrs</b>	<b>80 24 Hrs</b>	<b>100 24 Hrs</b>	<b>60 24 Hrs</b>

*Arshiyaa Housar*  
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## TEST REPORT

Table No. 2

### AMBIENT AIR QUALITY

<b>Name of the Client</b>	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd				
<b>Name of the Project</b>	: Ramanadurga Iron Ore Mine (ML No. 2141)				
<b>Location</b>	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
<b>Sample Collected by</b>	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
<b>Code &amp; Station</b>	: All - Yeshwanthanagar				
<b>Duration</b>	: 24 Hrs				
<b>Issue date</b>	: 02.01.2026				
<b>Sampling &amp; Test Method</b>	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Particulate Matter	
				PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )
05.12.2025	N009725121	10	16	45	25
06.12.2025	N001725122	9	15	56	29
12.12.2025	N026925122	7	9	50	27
13.12.2025	N00092523	12	15	54	26
15.12.2025	N00702523	7	11	50	26
16.12.2025	N01222523	11	15	38	20
22.12.2025	N008025124	13	18	56	27
23.12.2025	N013825124	9	13	46	20
<b>NAAQS Limits for Industrial, Residential, Rural and other Areas</b>		<b>80</b> 24 Hrs	<b>80</b> 24 Hrs	<b>100</b> 24 Hrs	<b>60</b> 24 Hrs

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## TEST REPORT

Table No. 3

### AMBIENT AIR QUALITY

<b>Name of the Client</b>	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd				
<b>Name of the Project</b>	: Ramanadurga Iron Ore Mine (ML No. 2141)				
<b>Location</b>	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
<b>Sample Collected by</b>	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
<b>Code &amp; Station</b>	: AIII - Sushila Nagar village				
<b>Duration</b>	: 24 Hrs				
<b>Issue date</b>	: 02.01.2026				
<b>Sampling &amp; Test Method</b>	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Particulate Matter	
				PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )
05.12.2025	N011025121	11	15	47	26
06.12.2025	N002925122	13	18	48	24
12.12.2025	N028025122	9	11	43	22
13.12.2025	N00202523	11	13	51	27
14.12.2025	N00592523	11	13	56	29
19.12.2025	N02132523	12	15	24	28
20.12.2025	N001025124	13	17	46	24
25.12.2025	N023825124	10	15	50	27
<b>NAAQS Limits for Industrial, Residential, Rural and other Areas</b>		<b>80</b> 24 Hrs	<b>80</b> 24 Hrs	<b>100</b> 24 Hrs	<b>60</b> 24 Hrs

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## TEST REPORT

Table No. 4

### AMBIENT AIR QUALITY

<b>Name of the Client</b>	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd				
<b>Name of the Project</b>	: Ramanadurga Iron Ore Mine (ML No. 2141)				
<b>Location</b>	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
<b>Sample Collected by</b>	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
<b>Code &amp; Station</b>	: AIV - Sandur				
<b>Duration</b>	: 24 Hrs				
<b>Issue date</b>	: 02.01.2026				
<b>Sampling &amp; Test Method</b>	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Particulate Matter	
				PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )
03.12.2025	N003125121	13	18	56	28
04.12.2025	N006225121	12	15	44	26
10.12.2025	N023925122	11	13	40	23
11.12.2025	N025525122	15	16	50	26
17.12.2025	N01682523	11	15	58	32
18.12.2025	N01872523	7	12	55	28
26.12.2025	N027625124	10	16	53	26
27.12.2025	N000225125	9	13	47	25
<b>NAAQS Limits for Industrial, Residential, Rural and other Areas</b>		<b>80</b> 24 Hrs	<b>80</b> 24 Hrs	<b>100</b> 24 Hrs	<b>60</b> 24 Hrs

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## TEST REPORT

Table No. 5

### AMBIENT AIR QUALITY

<b>Name of the Client</b>	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd				
<b>Name of the Project</b>	: Ramanadurga Iron Ore Mine (ML No. 2141)				
<b>Location</b>	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka				
<b>Sample Collected by</b>	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
<b>Code &amp; Station</b>	: AV - Core zone Within ML Area				
<b>Duration</b>	: 24 Hrs				
<b>Issue date</b>	: 02.01.2026				
<b>Sampling &amp; Test Method</b>	: IS : 5182 & Lab SOP				
Date of Sampling	Report No	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Particulate Matter	
				PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )
05.12.2025	N011125121	8	10	40	23
06.12.2025	N003025122	9	11	46	25
12.12.2025	N028125122	11	13	53	27
13.12.2025	N00212523	8	15	58	32
14.12.2025	N00602523	10	11	47	25
19.12.2025	N02142523	12	18	51	28
20.12.2025	N001125124	11	13	39	21
25.12.2025	N023925124	9	10	50	28
<b>NAAQS Limits for Industrial , Residential, Rural and other Areas</b>		<b>80</b> 24 Hrs	<b>80</b> 24 Hrs	<b>100</b> 24 Hrs	<b>60</b> 24 Hrs

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## TEST REPORT

Table No. 6

### Fugitive Emission

<b>Name of the Client</b>	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd		
<b>Name of the Project</b>	: Ramanadurga Iron Ore Mine (ML No. 2141)		
<b>Location</b>	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka		
<b>Sample Collected by</b>	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)		
<b>Duration</b>	: 08 Hrs		
<b>Issue Date</b>	: 02.01.2026		
Code & Station	Date of sample	Report No	Particulate mater ( $\mu\text{g}/\text{m}^3$ )
FE1 - Loading point	05.12.2025	N011225121	385
	19.12.2025	N02152523	452
FE2 - Crushing & Screening	06.12.2025	N003125122	463
	20.12.2025	N001225124	397
FE3 - Dumping point	05.12.2025	N011325121	421
	19.12.2025	N02162523	357
FE4 - Haulage Road	06.12.2025	N003225122	391
	20.12.2025	N001325124	423
<b>Ref : As per CFO in Annexure - II issued KSPCB</b>			
<b>Permissible limits for Fugitive Emissions</b>			<b>Particulate Mater (<math>\mu\text{g}/\text{m}^3</math>) 600 <math>\mu\text{g}/\text{m}^3</math></b>

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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 : December, 2025												
	AI - Dharmapura				All - Yeshwanthanagar				All - Sushila Nagar village			
	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Min.	8	10	39	20	7	9	38	20	9	11	24	22
10%	8	12	44	22	7	10	43	20	10	12	37	23
25%	10	13	47	25	9	13	46	24	11	13	45	24
50%	11	14	51	27	10	15	50	26	11	15	48	27
75%	11	16	55	28	11	15	55	27	12	16	50	27
98%	13	18	58	32	13	18	56	29	13	18	55	29
Max.	13	18	58	32	13	18	56	29	13	18	56	29
Avg.	11	14	50	26	10	14	49	25	11	15	46	26
SD	2	3	6	4	2	3	6	3	1	2	10	2
No. of obs	8				8				8			
	AIV - Sandur Town				AV - Core zone Within ML Area							
	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>				
Min.	7	12	40	23	8	10	39	21				
10%	8	13	43	24	8	10	40	22				
25%	10	13	46	26	9	11	45	25				
50%	11	15	52	26	10	12	49	26				
75%	12	16	55	28	11	14	52	28				
98%	15	18	58	31	12	18	57	31				
Max.	15	18	58	32	12	18	58	32				
Avg.	11	15	50	27	10	13	48	26				
SD	2	2	6	3	1	3	6	3				
No. of obs	8				8							

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## TEST REPORT

Table No.8

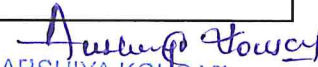
Name of the Client	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd
Name of the Project	: Ramanadurga Iron Ore Mine (ML No. 2141)
Location	: Dharmapura Village, Sandur Taluk, Ballari District, Karnataka
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Nature of sample	: Surface water
Sample Location	: SW1 - Nari Halla Up Stream water, SW2 - Nari Halla Down Stream water
Date of sample collection	: 06.12.2025
Date of sample receipt	: 08.12.2025
Issue Date	: 02.01.2026
Ref : IS : 2296 Water Quality Standards	

Report No		M000125122	M000225122	Limits	Method of Testing
Sample Code		SW1	SW2		
Sl.No.	Parameters	Results			
1	Colour (Hazen Units)	5	5	300	IS 3025 (Part 4) 2021
2	pH	8.42	8.64	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O <sub>2</sub> ), mg/l	5.10	5.00	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l	<3	<3	Max 3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	70	50	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	740	752	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	190.0	200.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO <sub>4</sub> (mg/l)	70.0	76.0	400	APHA (24th Edition ):4110B
9	Nitrates (as NO <sub>3</sub> ),mg/l	22.20	20.60	.50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.62	0.45	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 <sup>+6</sup> ), 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 <sub>6</sub> H <sub>5</sub> 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""

  
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