

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	May-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 : 02.06.2025					
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)
08.05.2025	N015325052	11	17	63	33
09.05.2025	N024025052	10	15	55	30
16.05.2025	N027425053	11	12	48	25
17.05.2025	N001925054	11	11	53	27
19.05.2025	N007325054	13	13	55	30
20.05.2025	N011425054	10	10	60	34
28.05.2025	N022625055	9	11	58	38
29.05.2025	N028525055	12	13	45	26
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

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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TEST REPORT

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 : 02.06.2025					
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)
08.05.2025	N014525052	11	18	58	37
09.05.2025	N023025052	10	12	53	32
12.05.2025	N007725053	7	10	50	26
13.05.2025	N014625053	11	13	42	27
23.05.2025	N023525054	8	17	49	26
24.05.2025	N001025055	11	15	53	27
26.05.2025	N007725055	11	12	53	26
27.05.2025	N015325055	10	14	48	26
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar

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Govt. Analyst / Authorised Signatory

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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 : 02.06.2025 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)
08.05.2025	N015525052	9	10	56	34
09.05.2025	N024225052	12	15	60	32
14.05.2025	N020425053	11	13	58	19
15.05.2025	N024025053	9	16	45	20
21.05.2025	N014625054	11	18	45	22
22.05.2025	N019125054	10	12	53	29
28.05.2025	N022825055	13	18	48	26
29.05.2025	N028725055	11	15	50	28
Limits for Industrial , Residential, Rural and other Areas		80	80	100	60
		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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

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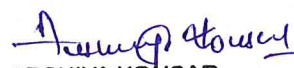
TEST REPORT

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 : 02.06.2025
 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)
08.05.2025	N015625052	7	11	63	38
09.05.2025	N024325052	10	13	57	32
14.05.2025	N020525053	9	10	54	28
15.05.2025	N024125053	13	11	46	21
21.05.2025	N014725054	11	13	49	29
22.05.2025	N019225054	9	15	60	31
28.05.2025	N022925055	10	16	57	27
29.05.2025	N028825055	8	18	58	26
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs


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

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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 : 02.06.2025					
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)
08.05.2025	N015725052	11	12	51	27
09.05.2025	N024325053	10	14	58	32
14.05.2025	N020625053	9	11	60	34
15.05.2025	N024225053	11	15	54	26
21.05.2025	N014825054	9	12	50	26
22.05.2025	N019325054	12	16	47	24
28.05.2025	N023025055	11	14	36	21
29.05.2025	N028925055	10	13	54	28
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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

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TEST REPORT

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 : 02.06.2025		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
14.05.2025	N020725053	456
21.05.2025	N014925054	387

Particulars of sample collected : FE2 - Crushing & Screening		
Duration : 08 Hrs		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
15.05.2025	N024325053	521
22.05.2025	N019425054	496

Particulars of sample collected : FE3 - Dumping point		
Duration : 08 Hrs		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
14.05.2025	N020825053	455
21.05.2025	N015025054	432

Particulars of sample collected : FE4 - Haulage Road		
Duration : 08 Hrs		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
15.05.2025	N024425053	487
22.05.2025	N019525054	465
Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment)		
Permissible limits for Fugitive Emissions		Particulate mater ($\mu\text{g}/\text{m}^3$) 600 $\mu\text{g}/\text{m}^3$

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

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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 : May, 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.	9	10	45	25	7	10	42	26	9	10	45	19
10%	10	11	47	26	8	11	46	26	9	11	45	20
25%	10	11	52	27	10	12	49	26	10	13	47	22
50%	11	13	55	30	11	14	52	27	11	15	52	27
75%	11	14	59	33	11	16	53	28	11	17	57	30
98%	13	17	63	37	11	18	57	36	13	18	60	34
Max.	13	17	63	38	11	18	58	37	13	18	60	34
Avg.	11	13	55	30	10	14	51	28	11	15	52	26
SD	1	2	6	4	2	3	5	4	1	3	6	6
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	10	46	21	9	11	36	21				
10%	8	11	48	25	9	12	44	23				
25%	9	11	53	27	10	12	49	26				
50%	10	13	57	29	11	14	53	27				
75%	10	15	59	31	11	14	55	29				
98%	13	18	63	38	12	16	60	34				
Max.	13	18	63	38	12	16	60	34				
Avg.	10	13	56	29	10	13	51	27				
SD	2	3	6	5	1	2	7	4				
No. of obs	8				8							

Arshiya Kousar

ARSHIYA KOUSAR

Dy TM. - Chemical

Govt. Analyst / Authorised Signatory

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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	: 16.05.2025
Date of sample receipt	: 17.05.2025
Issue Date	: 20.05.2025
Ref : IS : 2296 Water Quality Standards	

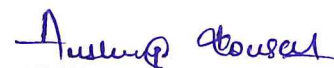
Report No		M000425054	M000525054	Limits	Method of Testing
Sample Code		SW1	SW2		
Sl.No.	Parameters	Results			
1	Colour (Hazen Units)	15	10	300	IS:3025(Part-4)2021
2	pH	7.45	7.44	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.0	5.0	Min 4	IS:3025(Part-38)1989RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	3	IS:3025(P-44) 2014
5	Total Coliform (MPN/100ml)	56	58	5000	IS:1622:1981
6	Total Dissolved Solids, (mg/l)	206	190	1500	IS:3025(Part-16)2023
7	Chloride (as Cl),mg/l	53.0	50	600	IS:3025(Part-32) ;1988RA2019
8	Sulphates as SO ₄ (mg/l)	14.5	14.6	400	IS:3025(P-24)Sec 1 2022
9	Nitrates (as NO ₃),mg/l	7.80	8.30	50	IS:3025(Part-34)1988 RA 2019
10	Fluoride (as F),mg/l	0.80	0.85	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""


BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory


ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

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