

ENVIRONMENTAL MONITORING REPORT

March, 2025

PROJECT: RAMANADURGA IRON ORE MINE

**ML NO. 2141
Dharmapura Village
Sandur Taluk, Ballari District,
Karnataka**

Lessee

M/S. Sri. KUMARASWAMY MINERAL EXPORTS PVT. LTD.,

**D. No. 462, SMIORE Colony,
Near Fire Station, Kudligi Road
SANDUR - 583119
BELLARY, KARNATAKA**

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

**(Accredited by NABL &, MOEF&CC Under E(P) 1986)
#948, 2nd Cross, Kammanahalli Main Road,
St Thomas Town Post, Bangalore- 560 084, Karnataka,**

LIST OF TABLES

SL. NO.	PARTICULARS	TABLE NO.
1	Test Report of Ambient Air Quality	1 to 5
2	Test Report of Fugitive Emission	6
3	Statistical Data for Air Quality	7
4	Water Test Report As per IS 2296	8



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

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)					
Station at & Code : A - I, Dharmapura					
Duration : 24 Hrs					
Issue date : 01.04.2025					
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)
07.03.2025	N016425033	7	9	30	16
08.03.2025	N023525033	6	9	50	28
14.03.2025	P021425033	4	9	47	24
15.03.2025	P026825033	10	11	53	26
17.03.2025	P030825033	9	11	43	23
18.03.2025	P037825033	6	10	40	22
26.03.2025	P020525035	7	10	48	24
27.03.2025	P023525035	10	15	51	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. T.M. - Chemical
Govt. Analyst / Authorised Signatory

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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

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)					
Station at & Code : A - II, Yeshwanthanagar					
Duration : 24 Hrs					
Issue date : 01.04.2025					
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)
07.03.2025	N015325033	11	14	50	19
08.03.2025	N022525033	10	16	51	26
10.03.2025	P001325033	9	11	55	29
11.03.2025	P009625033	10	11	48	24
21.03.2025	P000925034	13	18	50	26
22.03.2025	P008525034	8	12	57	28
24.03.2025	P000925035	10	12	54	28
25.03.2025	P010925035	12	16	50	31
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. T.M. - Chemical
Govt. Analyst / Authorised Signatory

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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

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)					
Station at & Code : A - III, Sushila Nagar village					
Duration : 24 Hrs					
Issue date : 01.04.2025					
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)
03.03.2025	N000125033	12	16	42	25
04.03.2025	N005425033	13	18	53	28
14.03.2025	P021925033	10	12	55	32
15.03.2025	P027325033	11	13	59	34
19.03.2025	P043925033	13	17	50	28
20.03.2025	P047625033	12	17	45	25
24.03.2025	P001125035	12	18	55	30
25.03.2025	P011125035	11	14	40	27
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

Arshiya Kousar

ARSHIYA KOUSAR

Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

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) Station at & Code : A - IV Sandur Town Duration : 24 Hrs Issue date : 01.04.2025 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)
03.03.2025	N000225033	9	15	57	33
04.03.2025	N005525033	12	17	43	22
14.03.2025	P022025033	10	13	54	28
15.03.2025	P027425033	7	9	45	26
19.03.2025	P044025033	11	13	42	22
20.03.2025	P047725033	10	11	53	28
24.03.2025	P001225035	10	14	56	30
25.03.2025	P011225035	12	14	50	27
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

ARSHIYA KOUSAR
Dy. T.M. - Chemical
Govt. Analyst / Authorised Signatory

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

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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

TEST REPORT

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)					
Station at & Code : A - V Core zone Within ML Area					
Duration : 24 Hrs					
Issue date : 01.04.2025					
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)
03.03.2025	N000325033	11	16	48	29
04.03.2025	N005625033	7	10	39	17
14.03.2025	P022125033	11	12	56	32
15.03.2025	P027525033	12	14	46	26
19.03.2025	P044125033	9	10	49	27
20.03.2025	P047825033	10	15	58	33
24.03.2025	P001325035	11	13	45	24
25.03.2025	P011325035	7	9	55	28
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. T.M. - Chemical
Govt. Analyst / Authorised Signatory

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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC (CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

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)		
Station at & Code : A - VI, Loading point		
Duration : 08 Hrs		
Issue date : 01.04.2025		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
03.03.2025	N000425033	299
19.03.2025	P044225033	387

Station at & Code : A - VII, Crushing & Screening		
Duration : 08 Hrs		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
04.03.2025	N005725033	367
20.03.2025	P047925033	421

Station at & Code : A - VIII, Dumping point		
Duration : 08 Hrs		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
03.03.2025	N000525033	455
19.03.2025	P044325033	396

Station at & Code : A - IX, Haulage Road		
Duration : 08 Hrs		
Date of sample	Report No	Particulate mater ($\mu\text{g}/\text{m}^3$)
04.03.2025	N005825033	458
20.03.2025	P048025033	412
Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment)		
Particulate mater ($\mu\text{g}/\text{m}^3$)		
Permissible limits for Fugitive Emissions 600 $\mu\text{g}/\text{m}^3$		

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

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



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

TEST REPORT

Table No. 7

STATISTICAL AIR QUALITY DATA

Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)												
Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd												
Month :March, 2025												
Station Code : A - I, Dharmapura					A - II, Yeshwanthanagar				A - III, 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	30	16	8	11	48	19	10	12	40	25
10%	5	9	37	20	9	11	49	23	11	13	41	25
25%	6	9	42	23	10	12	50	26	11	14	44	27
50%	7	10	48	24	10	13	51	27	12	17	52	28
75%	9	11	50	25	11	16	54	28	12	17	55	31
98%	10	14	53	28	13	18	57	30	13	18	58	34
Max.	10	15	53	28	13	18	57	31	13	18	59	34
Avg.	7	11	45	23	10	14	52	26	12	16	50	29
SD	2	2	7	4	2	3	3	4	1	2	7	3
No. of obs	8				8				8			
Station Code : A - IV Sandur Town					A - V 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	9	42	22	7	9	39	17				
10%	8	10	43	22	7	10	43	22				
25%	10	13	45	25	9	10	46	26				
50%	10	14	52	28	11	13	49	28				
75%	11	14	55	29	11	14	55	30				
98%	12	17	57	33	12	16	58	33				
Max.	12	17	57	33	12	16	58	33				
Avg.	10	13	50	27	10	12	50	27				
SD	2	2	6	4	2	3	6	5				
No. of obs	8				8							

Arshiy Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical
Govt. Analyst / Authorised Signatory

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

Note : This report is subject to the terms and conditions mentioned overleaf.



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Accredited by NABL (TC-6172), Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2025

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 : 10.03.2025
 Issue Date : 20.03.2025
 Ref : IS : 2296 Water Quality Standards

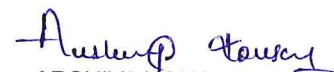
Report No		-	-	Limits For Stream Water Standards	Method of Testing
Sample Code		SW1	SW2		
Sl.No.	Parameters	Results			
1	Colour (Hazen Units)	Dry	Dry	300	IS:3025(Part-4)2021
2	pH			6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l			Min 4	IS:3025(Part-38)1989RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l			3	IS:3025(P-44) 2014
5	Total Coliform (MPN/100ml)			5000	IS:1622:1981
6	Total Dissolved Solids, (mg/l)			1500	IS:3025(Part-16)2023
7	Oil & Grease, mg/l			0.1	IS:3025(Part 39)2021
8	Chloride (as Cl),mg/l			600	IS:3025(Part-32) ;1988RA2019
9	Sulphates as SO ₄ (mg/l)			400	IS:3025(P-24)Sec 1 2022
10	Nitrates (as NO ₃),mg/l			50	IS:3025(Part-34)1988 RA 2019
11	Fluoride (as F),mg/l			1.5	APHA 23rd Edition 4500F
12	Copper (as Cu),mg/l			1.5	IS:3025(Part-2) 2019
13	Iron (as Fe),mg/l			50	IS:3025(P-2) 2019
14	Zinc (as Zn),mg/l			15	IS:3025(P-2) 2019
15	Total Arsenic (as As), (mg/l)			0.2	IS:3025(Part-37)
16	Lead (as Pb), mg/l			0.1	IS:3025(P-2) 2019
17	Cadmium (as Cd), mg/l			0.01	IS:3025(P-2) 2019
18	Hexavalent Chromium (as Cr ⁺⁶), mg/l			0.05	IS:3025(P-52) 2014
19	Selenium (as Se), mg/l			0.05	IS:3025(P-2) 2019
20	Cyanide (as CN), mg/l			0.05	IS:3025(P-27) Sec 1 2021
21	Phenolic compounds (as C ₆ H ₅ OH),mg/l			0.005	IS:3025(P-43)Sec 1 2022
22	Anionic detergents (as MBAS),mg/l			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.

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