

ENVIRONMENTAL MONITORING REPORT

January, 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,**

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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)					
Station at & Code : A - I, Dharmapura					
Duration : 24 Hrs					
Issue date : 03.02.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	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)
10.01.2025	N/25/01/03-0155	10	16	57	33
11.01.2025	N/25/01/03-0234	9	11	58	33
17.01.2025	N/25/01/03-0605	12	18	55	27
18.01.2025	N/25/01/04-0009	10	12	42	26
20.01.2025	N/25/01/04-0076	11	13	54	28
21.01.2025	N/25/01/04-0122	7	10	47	22
29.01.2025	N/25/02/1-0011	12	18	50	26
30.01.2025	N/25/02/1-0080	11	15	57	29
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

M. Sachin Raju
M.SACHIN RAJU

T.M. - Chemical

Govt. Analyst / Authorised Signatory

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

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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)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Station at & Code : A - II, Yeshwanthanagar					
Duration : 24 Hrs					
Issue date : 03.02.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	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)
10.01.2025	N/25/01/03-0146	11	13	54	27
11.01.2025	N/25/01/03-0225	6	10	50	24
13.01.2025	N/25/01/03-0441	11	16	45	24
14.01.2025	N/25/01/03-0495	9	12	40	22
24.01.2025	N/25/01/05-0010	8	10	53	26
25.01.2025'	N/25/01/05-0070	10	14	45	24
27.01.2025	N/25/01/5-0137	11	13	54	23
28.01 .202'5"	N/25/01/5-0286	7	9	50	27
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)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Station at & Code : A - III, Sushila Nagar village					
Duration : 24 Hrs					
Issue date : 03.02.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	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)
10.01.2025	N/25/01/03-0163	11	15	56	33
11.01.2025	N/25/01/03-0241	12	18	48	27
17.01.2025	N/25/01/03-0616	10	15	55	31
18.01.2025	N/25/01/04-0022	9	11	53	26
20.01.2025	N/25/01/04-0084	12	15	40	24
21.01.2025	N/25/01/04-0128	11	13	53	31
29.01.2025	N/25/02/1-0017	10	14	50	28
30.01.2025	N/25/02/1-0086	10	11	40	23
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)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Station at & Code : A - IV Sandur Town					
Duration : 24 Hrs					
Issue date : 03.02.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	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)
08.01.2025	N/25/01/03-0077	11	18	44	25
09.01.2025	N/25/01/03-0115	6	11	38	21
15.01.2025	N/25/01/03-0537	11	17	48	26
16.01.2025	N/25/01/03-0575	12	9	40	22
22.01.2025	N/25/01/04-0169	10	14	53	25
23.01.2025	N/25/01/04-0206	7	10	35	18
29.01.2025	N/25/02/1-0019	9	11	52	27
30.01.2025	N/25/02/1-0047	8	10	59	33
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)					
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 : 03.02.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	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)
10.01.2025	N/25/01/03-0164	9	12	50	25
11.01.2025	N/25/01/03-0242	12	18	57	29
17.01.2025	N/25/01/03-0617	9	14	53	27
18.01.2025	N/25/01/04-0023	11	15	44	25
20.01.2025	N/25/01/04-0085	14	18	38	21
21.01.2025	N/25/01/04-0129	7	9	47	25
29.01.2025	N/25/02/1-0018	11	12	49	26
30.11.2025	N/25/02/1-0087	10	14	52	29
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)		
Sample Collected by : Environmental Laboratory		
(Unit of Mineral Engineering Services LLP)		
Station at & Code : A - VI, Loading point		
Duration : 08 Hrs		
Issue date : 03.02.2025		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
10.01.2025	N/25/01/03-0165	455
22.01.2025	N/25/01/04-0164	396

Station at & Code : A - VII, Crushing & Screening		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
11.01.2025	N/25/01/03-0243	542
23.01.2025	N/25/01/04-0201	475

Station at & Code : A - VIII, Dumping point		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
10.01.2025	N/25/01/03-0166	468
22.01.2025	N/25/01/04-0165	387

Station at & Code : A - IX, Haulage Road		
Duration : 08 Hrs		
Date of sample	Lab Code	Particulate mater ($\mu\text{g}/\text{m}^3$)
11.01.2025	N/25/01/03-0244	586
23.01.2025	N/25/01/04-0202	475
Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment)		
Particulate mater ($\mu\text{g}/\text{m}^3$)		
Permissible limits for Fugitive Emissions 600 $\mu\text{g}/\text{m}^3$		

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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 : January, 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.	7	10	42	22	6	9	40	22	9	11	40	23
10%	8	11	46	25	7	10	44	23	10	11	40	24
25%	10	12	49	26	8	10	45	24	10	13	46	26
50%	11	14	55	28	10	13	50	24	11	15	52	28
75%	11	17	57	30	11	13	53	26	11	15	54	31
98%	12	18	58	33	11	16	54	27	12	18	56	33
Max.	12	18	58	33	11	16	54	27	12	18	56	33
Avg.	10	14	53	28	9	12	49	25	11	14	49	28
SD	2	3	6	4	2	2	5	2	1	2	6	4
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.	6	9	35	18	7	9	38	21				
10%	7	10	37	20	8	11	42	24				
25%	8	10	40	22	9	12	46	25				
50%	10	11	46	25	11	14	50	26				
75%	11	15	52	26	11	16	52	28				
98%	12	18	58	32	14	18	56	29				
Max.	12	18	59	33	14	18	57	29				
Avg.	9	13	46	25	10	14	49	26				
SD	2	3	8	5	2	3	6	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)
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	: 04.01.2025
Date of sample receipt	: 06.01.2025
Issue Date	: 22.01.2025
Ref : IS : 2296 Water Quality Standards	

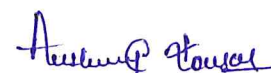
Lab Code		N/25/01/02-0077	N/25/01/02-0078	Limits For Stream Water Standards	Method of Testing
Sl.No.	Parameters	Results			
		SW1	SW2		
1	Colour (Hazen Units), Max	5	5	300	IS:3025(Part-4)2021
2	pH	8.30	8.35	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l, Max	5.2	5.3	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil & Grease, mg/l	<0.1	<0.1	0.1	IS:3025(Part 39)2021
5	Total Dissolved Solids (mg/l), Max	760	800	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	21.00	22.50	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
9	Chloride (as Cl),mg/l, Max	200.0	190	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.80	0.72	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates as SO ₄ (mg/l), Max	80.0	77.5	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Hexavalent Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	<3.0	3	IS:3025(P-44) 2014
22	Total Coliform (MPN/100ml)	230	255	5000	IS:1622:1981

"END OF REPORT"


BINU MANI

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Govt. Analyst / Authorised Signatory


ARSHIYA KOUSAR
Dy. T.M. - Chemical

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TEST REPORT

Table No. 9

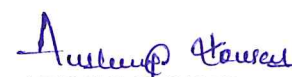
Name of the Client		: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd				
Name of the Project		: Ramanadurga Iron Ore Mine (ML No. 2141)				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Particulars of sample collected		: GW1 - Dharmapura bore water, GW2 -Yeshwanthanagar bore water				
Date of sample collection		: 17.01.2025				
Issue Date		: 23.01.2025				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Lab Code		N/25/01/03-0426	N/25/01/03-0427	Desirable Limits	Permissible Limits	Method of Testing
Sl. No.	Parameters	Results				
		GW1	GW2			
1	Colour (Hazen Units)	1	1	5	15	IS:3025 (P-4)02021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.90	7.31	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU, Max	1.50	1.8	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	1700.0	2500.0	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	970.0	1500.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10	Anionic Detergents (as MBAS),mg/l, Maxl	<0.1	<0.1	0.2	1.0	Annex K of Is:13428Amm 11 2022
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57)2021
13	Calcium (as Ca),mg/l, Max	100.20	128.2	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	150.00	450.0	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.85	0.70	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as Cl2, Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg)mg/l, Max	8.74	102.0	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO3),mg/l, Max	26.50	32.4	45	45	IS:3025 (P-34) 1988 RA 2019
24	Phenolics (as C6H5OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO4),mg/l, Max	110.00	128.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H2S) , mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO3) mg/l, Max	420.0	500.0	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO3),mg/l,Max	580.0	584.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml)	Not Detected	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"


BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory


ARSHIYA KOUSAR

Dy. T.M. - Chemical

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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. 10

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 : GW3 -Sushilanagar village Bore well water, GW4 - Drinking water Near Mine Office
 Date of sample collection : 04.01.2025
 Issue Date : 22.01.2025
 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Lab Code		N/25/01/02-0079	N/25/01/02-0080	Desirable Limits	Permissible Limits	Method of Testing
Sl. No.	Parameters	Results				
		GW3	GW4			
1	Colour (Hazen Units)	<1	1	5	15	IS:3025 (P-4)02021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	6.88	6.57	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU, Max	0.7	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	1358.0	98.0	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	780.0	52.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025(P-2)2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57)2021
13	Calcium (as Ca),mg/l, Max	66.00	3.20	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	258.00	8.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	0.80	<0.1	1	1.5	APHA 4500F
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as C12, Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg)mg/l, Max	24.12	1.45	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	IS 3025 (P-39) 2021
23	Nitrates (as NO ₃),mg/l, Max	20.00	4.00	45	45	IS:3025 (P-34) 1988 RA 2019
24	Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO ₄),mg/l, Max	94.25	6.00	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO ₃) mg/l, Max	172.0	20.00	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l,Max	268.0	14.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-2) 2019
40	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml)	Not Detected	Not Detected			IS:15185:2016 RA 2021

"END OF REPORT"

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TEST REPORT

NOISE LEVEL DATA

Table No. 11

Report No : ELMES0292501

Report No : 22M2002020

Name of the Client	: M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd
Name of the Project	: Ramanadurga Iron Ore Mine (ML No. 2141)
Particulars of sample collected	: Sound Levels
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Date of sample collection	: 04.01.2025
Issue Date	: 03.02.2025
Sampling & Test Method	: IS:9989

Code No.	Monitoring stations	Day			Night		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Bufferzone							
N1	Dharmapura	36.8	49.3	54.0	34.6	39.6	43.0
N2	Yeshwanthanagar	36.4	50.9	55.0	35.0	40.5	44.8
N3	Bavihalli village	37.0	52.1	56.8	34.6	41.7	44.0
Corezone							
N4	Core zone Near Mines office	37.0	48.1	58.2	34.6	41.6	48.2
N5	Loading Area	40.0	55.2	65.0	During operation		
N6	Dumping Area	42.0	62.1	78.0	During operation		

<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u>		
	Leq. Limit dB(A)	
	Day	Night
Industrial areas	75	70
Commerecial area	65	55
Residential area	55	45
Silence area	50	40

M. Sachin Raju

M.SACHIN RAJU

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