

ENVIRONMENTAL MONITORING REPORT

Project	REDI IRON ORE MINE
Location	Redi Village Vengurla Taluka, Sindhudurg Dist Maharashtra
Client	MINERALS AND METALS
Office Address	P. O. Redi, Tal Vengurla, Sindhudurga 416517, Maharashtra (India)
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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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Minerals and Metals
Name of the Project : Redi Iron Ore Mine
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected : A1 - Core zone Within ML Area
Duration : 24 Hrs
Issue Date : 04.06.2025
Reference IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
09.05.2025.	N022225052	7	11	57	25	<20	<1
10.05.2025	N005425053	9	13	49	28	<20	<1
12.05.2025	N013625053	12	17	55	27	<20	<1
13.05.2025	N020125053	10	15	52	25	<20	<1
23.05.2025	N028525054	10	12	47	27	<20	<1
24.05.2025	N005525055	9	12	46	25	<20	<1
26.05.2025	N012925055	10	14	50	29	<20	<1
27.05.2025	N020025055	12	16	48	25	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Report No	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
09.05.2025.	N022225052	0.19	<0.1	<0.5	<0.5	0.25	20
10.05.2025	N005425053	0.17	<0.1	<0.5	<0.5	0.24	23
12.05.2025	N013625053	0.17	<0.1	<0.5	<0.5	0.35	27
13.05.2025	N020125053	0.16	<0.1	<0.5	<0.5	0.21	20
23.05.2025	N028525054	0.19	<0.1	<0.5	<0.5	0.31	21
24.05.2025	N005525055	0.08	<0.1	<0.5	<0.5	0.12	20
26.05.2025	N012925055	0.16	<0.1	<0.5	<0.5	0.13	21
27.05.2025	N020025055	0.15	<0.1	<0.5	<0.5	0.25	26
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Minerals and Metals

Name of the Project : Redi Iron Ore Mine

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Particulars of sample collected : A2 - Redi village (Within 200m from the ML Area)

Duration : 24 Hrs

Issue Date : 04.06.2025

Reference IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
09.05.2025.	N021625052	9	12	51	28	<20	<1
10.05.2025	N004825053	10	11	48	25	<20	<1
12.05.2025	N013025053	7	9	56	29	<20	<1
13.05.2025	N019525053	11	14	58	30	<20	<1
23.05.2025	N027525054	9	11	53	27	<20	<1
24.05.2025	N004925055	12	18	46	23	<20	<1
26.05.2025	N011925055	11	15	52	27	<20	<1
27.05.2025	N019425055	10	13	50	25	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Report No	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
09.05.2025	N021625052	0.18	<0.1	<0.5	<0.5	0.45	24
10.05.2025	N004825053	0.16	<0.1	<0.5	<0.5	0.22	20
12.05.2025	N013025053	0.13	<0.1	<0.5	<0.5	0.20	25
13.05.2025	N019525053	0.14	<0.1	<0.5	<0.5	0.27	25
23.05.2025	N027525054	0.11	<0.1	<0.5	<0.5	0.25	26
24.05.2025	N004925055	0.10	<0.1	<0.5	<0.5	0.22	22
26.05.2025	N011925055	0.13	<0.1	<0.5	<0.5	0.25	21
27.05.2025	N019425055	0.22	<0.1	<0.5	<0.5	0.33	28
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No.3

AMBIENT AIR QUALITY

Name of the Client : M/s. Minerals and Metals

Name of the Project : Redi Iron Ore Mine

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Particulars of sample collected : A3 - Gaontala village

Duration : 24 Hrs

Issue Date : 04.06.2025

Reference IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
09.05.2025.	N021825052	11	12	49	28	<20	<1
10.05.2025	N005025053	9	15	57	30	<20	<1
12.05.2025	N013225053	13	17	46	25	<20	<1
13.05.2025	N019725053	15	18	49	26	<20	<1
23.05.2025	N027725054	12	16	39	19	<20	<1
24.05.2025	N005125055	9	10	47	22	<20	<1
26.05.2025	N012125055	11	17	52	29	<20	<1
27.05.2025	N019625055	10	12	44	24	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Report No	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
09.05.2025.	N021825052	0.21	<0.1	<0.5	<0.5	0.22	24
10.05.2025	N005025053	0.19	<0.1	<0.5	<0.5	0.28	22
12.05.2025	N013225053	0.11	<0.1	<0.5	<0.5	0.31	24
13.05.2025	N019725053	0.18	<0.1	<0.5	<0.5	0.29	28
23.05.2025	N027725054	0.22	<0.1	<0.5	<0.5	0.38	25
24.05.2025	N005125055	0.41	<0.1	<0.5	<0.5	0.22	28
26.05.2025	N012125055	0.25	<0.1	<0.5	<0.5	0.28	22
27.05.2025	N019625055	0.18	<0.1	<0.5	<0.5	0.35	23
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Minerals and Metals

Name of the Project : Redi Iron Ore Mine

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Particulars of sample collected : A4 - Kanyalwadi village

Duration : 24 Hrs

Issue Date : 04.06.2025

Reference IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
09.05.2025.	N021925052	8	9	59	35	<20	<1
10.05.2025	N005125053	9	10	55	29	<20	<1
12.05.2025	N013325053	11	13	60	33	<20	<1
13.05.2025	N019825053	9	15	52	27	<20	<1
23.05.2025	N027825054	9	11	50	26	<20	<1
24.05.2025	N005225055	11	12	46	22	<20	<1
26.05.2025	N012225055	10	14	54	28	<20	<1
27.05.2025	N019725055	9	12	42	24	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Report No	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
09.05.2025.	N021925052	0.18	<0.1	<0.5	<0.5	0.22	27
10.05.2025	N005125053	0.11	<0.1	<0.5	<0.5	0.34	22
12.05.2025	N013325053	0.17	<0.1	<0.5	<0.5	0.25	24
13.05.2025	N019825053	0.16	<0.1	<0.5	<0.5	0.21	21
23.05.2025	N027825054	0.15	<0.1	<0.5	<0.5	0.26	20
24.05.2025	N005225055	0.21	<0.1	<0.5	<0.5	0.25	22
26.05.2025	N012225055	0.24	<0.1	<0.5	<0.5	0.31	20
27.05.2025	N019725055	0.18	<0.1	<0.5	<0.5	0.26	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Minerals and Metals

Name of the Project : Redi Iron Ore Mine

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)

Particulars of sample collected : A5 - Shiroda village

Duration : 24 Hrs

Issue Date : 04.06.2025

Reference IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
09.05.2025.	N021725052	9	11	54	25	<20	<1
10.05.2025	N004925053	9	12	50	26	<20	<1
12.05.2025	N013125053	7	10	44	24	<20	<1
13.05.2025	N019625053	10	11	48	26	<20	<1
23.05.2025	N027625054	9	14	44	24	<20	<1
24.05.2025	N005025055	7	11	52	26	<20	<1
26.05.2025	N012025055	12	16	57	27	<20	<1
27.05.2025	N019525055	9	10	44	23	<20	<1
Limits for Industrial ,		80	80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Report No	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
09.05.2025.	N021725052	0.15	<0.1	<0.5	<0.5	0.25	22
10.05.2025	N004925053	0.18	<0.1	<0.5	<0.5	0.21	20
12.05.2025	N013125053	0.21	<0.1	<0.5	<0.5	0.21	21
13.05.2025	N019625053	0.22	<0.1	<0.5	<0.5	0.24	23
23.05.2025	N027625054	0.17	<0.1	<0.5	<0.5	0.21	25
24.05.2025	N005025055	0.13	<0.1	<0.5	<0.5	0.25	21
26.05.2025	N012025055	0.10	<0.1	<0.5	<0.5	0.25	22
27.05.2025	N019525055	0.17	<0.1	<0.5	<0.5	0.35	23
Limits for Industrial ,		1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 6

AMBIENT AIR QUALITY

Name of the Client : M/s. Minerals and Metals					
Name of the Project : Redi Iron Ore Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Particulars of sample collected : A6 - Near NIMCO Gate - Tivrewadi, Redi village					
Duration : 24 Hrs					
Issue Date : 04.06.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
09.05.2025.	N022025052	11	13	53	28
10.05.2025	N005225053	7	15	63	35
12.05.2025	N013425053	13	16	58	30
13.05.2025	N019925053	10	14	48	27
23.05.2025	N027925054	12	17	60	33
24.05.2025	N005325055	11	15	50	26
26.05.2025	N012325055	9	12	65	35
27.05.2025	N019825055	12	18	50	32
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

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TEST REPORT

Table No. 7

AMBIENT AIR QUALITY

Name of the Client : M/s. Minerals and Metals					
Name of the Project : Redi Iron Ore Mine					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Particulars of sample collected : A7 - Near Primary School - sakalbhatwadi Redi village					
Duration : 24 Hrs					
Issue Date : 04.06.2025					
Reference IS 5182 & Lab SOP					
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
09.05.2025.	N022125052	11	16	55	30
10.05.2025	N005325053	9	12	53	27
12.05.2025	N013525053	11	13	58	33
13.05.2025	N020025053	13	15	51	30
23.05.2025	N028025054	9	14	45	26
24.05.2025	N005425055	11	19	56	27
26.05.2025	N012425055	10	15	48	26
27.05.2025	N019925055	10	18	45	21
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. 8

Fugitive Emission

Name of the Client	: M/s. Minerals and Metals						
Name of the Project	: Redi Iron Ore Mine						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Duration	: 08 Hrs						
Issue Date	: 04.06.2025						
Particulars of sample collected	Date of sample	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ (µg/m ³)	SPM (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
FA1- Screening Plant	21.05.2025	N017625054	12	18	163	365	0.35
	27.05.2025	N020125055	10	16	122	235	0.47
FA2 - Haulage Road	21.05.2025	N017725054	14	19	230	460	0.44
	27.05.2025	N020225055	9	13	150	295	0.36
FA3 - Loading Area	21.05.2025	N017825054	11	15	163	387	0.28
	27.05.2025	N020325055	12	18	128	140	0.35
Within in Mining Area Pollutant			SO ₂	NO ₂	RPM (PM ₁₀)	SPM (PM)	CO
Concentration in Ambient Air			120	120	250	500	4
Time Weighted Average			24 Hrs	24 Hrs	24 Hrs	24 Hrs	1 Hr
Note : * Parameters monitored for period of 1 hr							

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Table No. 9

STATISTICAL AIR QUALITY DATA

Name of the Client : M/s. Minerals and Metals												
Name of the Project : Redi Iron Ore Mine												
Month : May, 2025												
	A1 - Core zone Within ML Area				A2 - Redi village (Within 200m from the ML Area)				A3 - Gaontala 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	46	25	7	9	46	23	9	10	39	19
10%	8	12	47	25	8	10	47	24	9	11	43	21
25%	9	12	48	25	9	11	50	25	10	12	46	24
50%	10	14	50	26	10	13	52	27	11	16	48	26
75%	11	15	53	27	11	14	54	28	12	17	50	28
98%	12	17	57	29	12	18	58	30	15	18	56	30
Max.	12	17	57	29	12	18	58	30	15	18	57	30
Avg.	10	14	51	26	10	13	52	27	11	15	48	25
SD	2	2	4	2	2	3	4	2	2	3	5	4
No. of obs	8				8				8			
	A4 - Kanyalwadi village				A5 - Shiroda village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	8	9	42	22	7	10	44	23				
10%	9	10	45	23	7	10	44	24				
25%	9	11	49	26	9	11	44	24				
50%	9	12	53	28	9	11	49	26				
75%	10	13	56	30	9	13	53	26				
98%	11	15	60	35	12	16	57	27				
Max.	11	15	60	35	12	16	57	27				
Avg.	10	12	52	28	9	12	49	25				
SD	1	2	6	4	2	2	5	1				
No. of obs	8				8							

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TEST REPORT

Table No. : 10

Name of the Client : M/s. Minerals and Metals
Name of the Project : Redi Iron Ore Mine
Location : Redi village, Vengurla taluka, Sindhudurg dist, Maharashtra
Particulars of sample collected : W1 - Pit water, W2 - Pit Discharge Water, W3 - Runoff water from dump
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Date of sample collection : 22.05.2025
Issue Date : 29.05.2025
Ref : Environmental (P) Rules, 1986 SCHEDULE VI

Report No		M002125054	-	-	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
Sl. No.	Sample code	W1	W2	W3		
	Parameters	Results				
1	Colour (Hazen Units), & Odour	5	No Discharge	No Runoff	--	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l),	15			100	IS 3025 (P-17) 2022
3	Particle size of suspended solids	Pass through 850 micron			Shall Pass through 850 micron	APHA 23rd edition
4	pH	7.62			5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C	28			Shall not exceed 5° C above the receiving water temp	IS 3025 (P-9) 1984 RA2022
6	Oil & Grease (mg/l), Max	<1.0			10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l)	<0.1			1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l)	<0.1			50	IS 3025 (P-34) 1988 RA 2019
9	Total Kjeldahl Nitrogen (mg/l)	<0.1			100	IS 3025 (P-34) 1988 RA 2019
10	Free Ammonia as NH ₃ (mg/l)	<0.1			5.0	IS 3025 (P-34) 1988 RA 2019
11	BOD [3 days at 27°C] (mg/l)	<3			30	IS 3025 (P-44) 2014
12	COD (mg/l)	4.83			250	IS 3025 (P-58) 2006 RA2022
13	Arsenic as As (mg/l)	<0.01			0.2	APHA 3030K
14	Mercury as Hg (mg/l)	<0.001			0.01	APHA 3030K
15	Lead as Pb (mg/l)	<0.01			0.1	APHA 3030K
16	Cadmium as Cd (mg/l)	<0.01			2.0	APHA 3030K
17	Hexavalent Chromium as Cr ⁺⁶ (mg/l)	<0.03			0.1	IS 3025 (P-52) 2014
18	Total Chromium as Cr(mg/l)	<0.01			2.0	APHA 3030K
19	Copper as Cu (mg/l)	<0.05			3.0	APHA 3030K
20	Zinc as Zn (mg/l)	<0.05			5.0	APHA 3030K
21	Selenium as Se (mg/l)	<0.05			0.05	APHA 3030K
22	Nickel as Ni (mg/l)	<0.05			3.0	APHA 3030K
23	Cyanide as CN (mg/l)	<0.01			0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l)	0.6			2.0	APHA23rd Edition 4500F
25	Dissolved Phosphates as PO ₄ (mg/l)	<0.05			5.0	IS 2488 (P-31) Sec 1 2022
26	Sulphide as S (mg/l)	<0.01			2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C ₆ H ₅ OH (mg/l),	<0.001			1.0	IS 3025 (P-43) Sec 1 2022
28	Manganese as Mn (mg/l)	<0.01			2	APHA 3030K
29	Iron as Fe (mg/l)	<0.05			3	APHA 3030K
30	Vanadium as V (mg/l)	<0.01			0.2	APHA 3030K
31	Nitrate Nitrogen (mg/l)	<1			10	IS 3025 (P-34) 1988 RA 2019

""END OF REPORT""

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TEST REPORT

Table No. 11

Name of the Client : M/s. Minerals and Metals
Name of the Project : Redi Iron Ore Mine
Location : Redi village, Vengurla taluka, Sindhudurg dist, Maharashtra State.
Particulars of sample collected : SW1 - Kanyal tank water, SW2 - Nallah water Near Kanyalwadi
SW3- Near Hanuman temple Kanyalwadi village
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Date of sample collection : 22.05.2025
Issue Date : 30.05.2025
Ref : IS : 2296 Water Quality Standards

Sl. No.	Report No	M002425054	M002525054	M002625054	Limits	Method of Testing
	Sample Code	SW1	SW2	SW3		
	Parameters	Results				
1	Colour (Hazen Units)	5	1	1	300	IS:3025(Part-4)2021
2	pH	6.54	6.62	6.57	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.3	5.1	5.5	Min 4	IS:3025(Part-38)1989RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	3	IS:3025(P-44) 2014
5	Total Coliform (MPN/100ml)	210	300	260	5000	IS:1622:1981
6	Total Dissolved Solids, (mg/l)	330	386	226	1500	IS:3025(Part-16)2023
7	Chloride (as Cl),mg/l	160.0	190	100	600	IS:3025(Part-32) ;1988RA2019
8	Sulphates as SO ₄ (mg/l)	30.0	44	22	400	IS:3025(P-24)Sec 1 2022
9	Nitrates (as NO ₃),mg/l	9.80	12.50	7.60	50	IS:3025(Part-34)1988 RA 2019
10	Fluoride (as F),mg/l	<0.1	<0.1	<0.1	1.5	APHA 23rd Edition 4500F
11	Copper (as Cu),mg/l	<0.005	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
12	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	50	IS:3025(P-2) 2019
13	Zinc (as Zn),mg/l	<0.005	<0.005	<0.005	15	IS:3025(P-2) 2019
14	Total Arsenic (as As), (mg/l)	<0.002	<0.002	<0.002	0.2	IS:3025(Part-37)
15	Lead (as Pb), mg/l	<0.005	<0.005	<0.005	0.1	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l	<0.001	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Hexavalent Chromium (as Cr ⁺⁶), mg/l	<0.03	<0.03	<0.03	0.05	IS:3025(P-52) 2014
18	Selenium (as Se), mg/l	<0.005	<0.005	<0.005	0.05	IS:3025(P-2) 2019
19	Cyanide (as CN), mg/l	<0.005	<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	<0.001	0.005	IS:3025(P-43)Sec 1 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	<0.1	1.0	IS:3025(Part-68)
Note : Class-C: Drinking water with conventional treatment followed by disinfection.						

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""END OF REPORT""


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TEST REPORT

Name of the Client		: M/s. Minerals and Metals		
Name of the Project		: Redi Iron Ore Mine		
Particulars of sample collected		: STP1 - Sewage Treatment Plant		
Date of sample collection		: 22.05.2025		
Report no		: M002725054		
Issue Date		: 30.06.2025		
Ref		:Schedule -1 Sl.No-2 of CTO		
Sample code		STP1	Standards	Method of Testing
Sl. No.	Parameters	Results		
1	pH	7.88	-	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand BOD ₃ 27 ⁰ C, mg/l	10	<30	IS 3025 (Part 44) 2023
3	Total Suspended Solids, at 105 ⁰ C, mg/l	26	<50	IS 3025 (P-17) 2022
4	Chemical Oxygen Demand (COD) (mg/l)	58	<100	IS 3025 (Part 58) 2023

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