

ENVIRONMENTAL MONITORING REPORT

Project	REDI IRON ORE MINE (Block -1)
Location	Redi Village Vengurla Taluka, Sindudurg Dist Maharashtra
Client	M/s. GOGTE MINERALS
Office Address	BELAGAVI, 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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ENVIRONMENTAL LABORATORY

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TEST REPORT

Table No. 1

Fugitive Emission

Name of the Client		: M/s. Gogte Minerals					
Name of the Project		: Redi Iron Ore Mine (203)					
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- Near Dumping Area	23.05.2025	N028125054	14	18	168	396	0.33
	26.05.2025	N012525055	12	15	188	365	0.45
FA2 - Haulage road	23.05.2025	N028225054	12	18	235	452	0.35
	26.05.2025	N012625055	10	13	215	466	0.48
FA3 - Near Loading Area	23.05.2025	N028325054	9	13	185	386	0.28
	26.05.2025	N012725055	12	16	196	412	0.44
FA4 - Screening Area	23.05.2025	N028425054	13	19	230	321	0.35
	26.05.2025	N012825055	11	15	220	475	0.39
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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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
Name of the Project : Redi Iron Ore Mine (203)
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected : A1 - Core Zone Near Mine Office
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.	N021525052	11	12	63	33	<20	<1
10.05.2025	N004725053	9	11	55	30	<20	<1
12.05.2025	N012925053	12	16	52	28	<20	<1
13.05.2025	N019425053	14	11	55	29	<20	<1
23.05.2025	N027425054	11	14	50	28	<20	<1
24.05.2025	N004825055	13	18	45	24	<20	<1
26.05.2025	N011825055	10	15	44	23	<20	<1
27.05.2025	N019325055	9	11	57	30	<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.	N021525052	0.18	<0.1	<0.5	<0.5	0.36	25
10.05.2025	N004725053	0.13	<0.1	<0.5	<0.5	0.22	27
12.05.2025	N012925053	0.11	<0.1	<0.5	<0.5	0.26	26
13.05.2025	N019425053	0.15	<0.1	<0.5	<0.5	0.31	23
23.05.2025	N027425054	0.20	<0.1	<0.5	<0.5	0.28	24
24.05.2025	N004825055	0.11	<0.1	<0.5	<0.5	0.41	25
26.05.2025	N011825055	0.16	<0.1	<0.5	<0.5	0.35	27
27.05.2025	N019325055	0.22	<0.1	<0.5	<0.5	0.21	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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Note : This report is subject to the terms and conditions mentioned overleaf.



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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected	: A2 - 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)	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 ,		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.	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 ,		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. Gogte Minerals
Name of the Project : Redi Iron Ore Mine (203)
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected : A3 - 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 , 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.	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 , 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. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
Name of the Project : Redi Iron Ore Mine (203)
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected : A4 - 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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TEST REPORT

Table No. 6

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
Name of the Project : Redi Iron Ore Mine (203)
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected : A5 - 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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TEST REPORT

Table No.7

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals					
Name of the Project : Redi Iron Ore Mine (203)					
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. 8

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals					
Name of the Project : Redi Iron Ore Mine (203)					
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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TEST REPORT

Table No. 9

STATISTICAL AIR QUALITY DATA

Name of the Client : M/s. Gogte Minerals												
Name of the Project : Redi Iron Ore Mine (203)												
Month : May, 2025												
	A1 - A1 - Core Zone Near Mine Office				A2 - Redi village				A3 - Shiroda 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	11	44	23	7	9	46	23	7	10	44	23
10%	9	11	45	24	8	10	47	24	7	10	44	24
25%	10	11	49	27	9	11	50	25	9	11	44	24
50%	11	13	54	29	10	13	52	27	9	11	49	26
75%	12	15	56	30	11	14	54	28	9	13	53	26
98%	14	18	62	33	12	18	58	30	12	16	57	27
Max.	14	18	63	33	12	18	58	30	12	16	57	27
Avg.	11	14	53	28	10	13	52	27	9	12	49	25
SD	2	3	6	3	2	3	4	2	2	2	5	1
No. of obs	8				8				8			
	A4 - Gaontala village				A5 - Kanyalwadi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	9	10	39	19	8	9	42	22				
10%	9	11	43	21	9	10	45	23				
25%	10	12	46	24	9	11	49	26				
50%	11	16	48	26	9	12	53	28				
75%	12	17	50	28	10	13	56	30				
98%	15	18	56	30	11	15	60	35				
Max.	15	18	57	30	11	15	60	35				
Avg.	11	15	48	25	10	12	52	28				
SD	2	3	5	4	1	2	6	4				
No. of obs	8				8							

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TEST REPORT

Table No. 10

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203)			
Location	Redi village, Vengurla taluka,Sindhudurg dist,Maharashtra State.			
Particulars of sample collected	: W1 - Pit water			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Date of sample collection	: 22.05.2025			
Report No	: M002225054			
Issue Date	: 30.05.2025			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sample code		W1	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
Sl. No.	Parameters	Results		
1	Colour (Hazen Units), & Odour	20	--	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l),	60	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	5.82	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 & Grrase (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 ⁰ C] (mg/l)	<3	30	IS 3025 (P-44) 2014
12	COD (mg/l)	42	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)	0.5	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. Gogte Minerals			
Name of the Project		: Redi Iron Ore Mine (203)			
Location		: Redi village, Vengurla taluka,Sindhudurg dist,Maharashtra State.			
Particulars of sample collected		: 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		: 30.05.2025			
Ref		: Environmental (P) Rules, 1986 SCHEDULE VI			
Report No		-	M002325054	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
Sl. No.	Sample code	W2	W3		
	Parameters	Results			
1	Colour (Hazen Units), & Odour	No Discharge	30	--	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l),		80	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		8.82	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C		26	Shall not exceed 5 ^o C above the receiving water temp	IS 3025 (P-9) 1984 RA2022
6	Oil & Grrase (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 ^o C] (mg/l)		<3	30	IS 3025 (P-44) 2014
12	COD (mg/l)		54	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)		0.55	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. 12

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
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.

END OF REPORT


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TEST REPORT

Table No. 13

Name of the Client		: M/s. Gogte Minerals		
Name of the Project		: Redi Iron Ore Mine (203)		
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 SI.No-2 of CTO		
Sample code		STP1	Standards	Method of Testing
Sl. No.	Parameters	Results		
1	pH	7.88	-	AOHA (23 rd Edition) 4500H* - B
2	Biochemical Oxygen Demand BOD ₅ 27 ^o C, mg/l	10	<100	IS 3025 (P-44) 1993
3	Total Suspended Solids, at 105 ^o C, mg/l	26	<100	AOHA (23 rd Edition) 2540 - D

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