

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	December -2025

ENVIRONMENTAL LABORATORY **(Unit of Mineral Engineering Services LLP)**

Recognised by MoEF&CC Under E(P) Act 1986

&

Accredited by NABL

#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

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	: 03.01.2026						
Code & Station	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	12.12.2025	N031125122	12	15	155	246	0.33
	26.12.2025	N031925124	10	13	112	178	0.35
FA2 - Haulage road	12.12.2025	N031225122	7	9	188	308	0.25
	26.12.2025	N032025124	12	18	125	192	0.45
FA3 - Near Loading Area	13.12.2025	N00512523	11	15	98	160	0.38
	27.12.2025	N004225125	10	13	126	217	0.28
FA4 - Screening Area	13.12.2025	N00522523	9	15	122	179	0.35
	27.12.2025	N004325125	13	18	195	310	0.42
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)
Code & Station : A1 - Core Zone Near Mine Office
Duration : 24 Hrs
Issue Date : 03.01.2026
Sampling & Test Method : 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
03.12.2025	N004125121	7	9	50	28	<20	<1
04.12.2025	N007225121	11	13	39	22	<20	<1
12.12.2025	N030725122	10	15	47	23	<20	<1
13.12.2025	N00472523	13	18	41	25	<20	<1
15.12.2025	N00942523	9	11	46	25	<20	<1
16.12.2025	N01472523	10	13	50	26	<20	<1
26.12.2025	N031525124	7	9	57	30	<20	<1
27.12.2025	N003825125	12	16	53	28	<20	<1
NAAQs 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
03.12.2025	N004125121	0.16	<0.1	<0.5	<0.5	0.45	24
04.12.2025	N007225121	0.22	<0.1	<0.5	<0.5	0.28	28
12.12.2025	N030725122	0.17	<0.1	<0.5	<0.5	0.33	30
13.12.2025	N00472523	0.22	<0.1	<0.5	<0.5	0.28	22
15.12.2025	N00942523	0.19	<0.1	<0.5	<0.5	0.42	28
16.12.2025	N01472523	0.11	<0.1	<0.5	<0.5	0.33	26
26.12.2025	N031525124	0.24	<0.1	<0.5	<0.5	0.28	22
27.12.2025	N003825125	0.11	<0.1	<0.5	<0.5	0.33	24
NAAQS 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. Gogte Minerals
Name of the Project : Redi Iron Ore Mine (203)
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Code & Station : A2 - Redi village
Duration : 24 Hrs
Issue Date : 03.01.2026
Sampling & Test Method : 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
03.12.2025	N004225121	13	18	50	29	<20	<1
04.12.2025	N007325121	8	13	41	20	<20	<1
12.12.2025	N030825122	11	15	45	23	<20	<1
13.12.2025	N00482523	9	12	51	28	<20	<1
15.12.2025	N00952523	7	14	47	26	<20	<1
16.12.2025	N01482523	12	16	43	25	<20	<1
26.12.2025	N031625124	9	14	53	27	<20	<1
27.12.2025	N003925125	9	11	55	30	<20	<1
NAAQs 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
03.12.2025	N004225121	0.22	<0.1	<0.5	<0.5	0.32	25
04.12.2025	N007325121	0.18	<0.1	<0.5	<0.5	0.22	28
12.12.2025	N030825122	0.13	<0.1	<0.5	<0.5	0.25	30
13.12.2025	N00482523	0.11	<0.1	<0.5	<0.5	0.26	23
15.12.2025	N00952523	0.24	<0.1	<0.5	<0.5	0.25	21
16.12.2025	N01482523	0.15	<0.1	<0.5	<0.5	0.33	24
26.12.2025	N031625124	0.18	<0.1	<0.5	<0.5	0.29	20
27.12.2025	N003925125	0.13	<0.1	<0.5	<0.5	0.26	26
NAAQS 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. 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)
Code & Station : A3 - Shiroda village
Duration : 24 Hrs
Issue Date : 03.01.2026
Sampling & Test Method : 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
03.12.2025	N004325121	10	12	42	23	<20	<1
04.12.2025	N007425121	9	18	50	26	<20	<1
12.12.2025	N030925122	11	16	46	23	<20	<1
13.12.2025	N00492523	7	9	54	27	<20	<1
15.12.2025	N00962523	11	12	36	23	<20	<1
16.12.2025	N01492523	9	10	42	18	<20	<1
26.12.2025	N031725124	10	14	50	17	<20	<1
27.12.2025	N004025125	11	16	45	24	<20	<1
NAAQs 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
03.12.2025	N004325121	0.11	<0.1	<0.5	<0.5	0.31	21
04.12.2025	N007425121	0.31	<0.1	<0.5	<0.5	0.27	20
12.12.2025	N030925122	0.25	<0.1	<0.5	<0.5	0.21	28
13.12.2025	N00492523	0.14	<0.1	<0.5	<0.5	0.25	24
15.12.2025	N00962523	0.24	<0.1	<0.5	<0.5	0.28	28
16.12.2025	N01492523	0.16	<0.1	<0.5	<0.5	0.38	20
26.12.2025	N031725124	0.11	<0.1	<0.5	<0.5	0.32	23
27.12.2025	N004025125	0.19	<0.1	<0.5	<0.5	0.25	20
NAAQS 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)
Code & Station : A4 - Gaontala village
Duration : 24 Hrs
Issue Date : 03.01.2026
Sampling & Test Method : 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
03.12.2025	N004425121	8	9	40	21	<20	<1
04.12.2025	N007525121	10	13	47	26	<20	<1
12.12.2025	N031025122	9	11	51	27	<20	<1
13.12.2025	N00502523	12	15	55	32	<20	<1
15.12.2025	N00972523	10	12	47	27	<20	<1
16.12.2025	N01502523	9	10	50	29	<20	<1
26.12.2025	N031825124	12	18	43	24	<20	<1
27.12.2025	N004125125	7	9	53	27	<20	<1
NAAQS 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
03.12.2025	N004425121	0.13	<0.1	<0.5	<0.5	0.42	25
04.12.2025	N007525121	0.21	<0.1	<0.5	<0.5	0.25	27
12.12.2025	N031025122	0.25	<0.1	<0.5	<0.5	0.32	23
13.12.2025	N00502523	0.15	<0.1	<0.5	<0.5	0.25	32
15.12.2025	N00972523	0.23	<0.1	<0.5	<0.5	0.42	25
16.12.2025	N01502523	0.11	<0.1	<0.5	<0.5	0.22	20
26.12.2025	N031825124	0.15	<0.1	<0.5	<0.5	0.26	23
27.12.2025	N004125125	0.18	<0.1	<0.5	<0.5	0.35	28
NAAQS 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. 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)
Code & Station : A5 - Kanyalwadi village
Duration : 24 Hrs
Issue Date : 03.01.2026
Sampling & Test Method : 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
05.12.2025	N016625121	12	15	48	25	<20	<1
06.12.2025	N008525122	11	18	57	30	<20	<1
08.12.2025	N015125122	9	11	53	28	<20	<1
09.12.2025	N022025122	10	13	40	25	<20	<1
17.12.2025	N01782523	7	9	48	27	<20	<1
18.12.2025	N01972523	10	12	54	29	<20	<1
24.12.2025	N020825124	9	11	45	26	<20	<1
25.12.2025	N025425124	12	15	51	27	<20	<1
NAAQS 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
05.12.2025	N016625121	0.13	<0.1	<0.5	<0.5	0.25	22
06.12.2025	N008525122	0.21	<0.1	<0.5	<0.5	0.45	27
08.12.2025	N015125122	0.18	<0.1	<0.5	<0.5	0.36	24
09.12.2025	N022025122	0.11	<0.1	<0.5	<0.5	0.25	20
17.12.2025	N01782523	0.15	<0.1	<0.5	<0.5	0.31	21
18.12.2025	N01972523	0.24	<0.1	<0.5	<0.5	0.40	27
24.12.2025	N020825124	0.19	<0.1	<0.5	<0.5	0.28	22
25.12.2025	N025425124	0.27	<0.1	<0.5	<0.5	0.37	20
NAAQS 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)					
Code & Station : A6 - Near NIMCO Gate - Tivrewadi, Redi village					
Duration : 24 Hrs					
Issue Date : 03.01.2026					
Sampling & Test Method : 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)
05.12.2025	N016725121	11	14	50	26
06.12.2025	N008625122	13	18	55	30
08.12.2025	N015225122	10	12	48	25
09.12.2025	N022125122	7	10	43	20
17.12.2025	N01792523	11	13	58	30
18.12.2025	N01982523	9	12	54	26
24.12.2025	N020925124	7	9	47	23
25.12.2025	N025525124	7	11	50	25
NAAQS 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)					
Code & Station : A7 - Near Primary School - sakalbhatwadi Redi village					
Duration : 24 Hrs					
Issue Date : 03.01.2026					
Sampling & Test Method : 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)
05.12.2025	N016825121	10	14	43	24
06.12.2025	N008725122	9	12	53	26
08.12.2025	N015325122	10	13	48	25
09.12.2025	N022225122	9	11	40	23
17.12.2025	N01802523	7	9	50	27
18.12.2025	N01992523	11	13	52	26
24.12.2025	N021025124	7	9	45	23
25.12.2025	N025625124	9	11	48	20
NAAQS Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	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	: December, 2025											
Code & Station	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.	7	9	39	22	7	11	41	20	7	9	36	17
10%	7	9	40	23	8	12	42	22	8	10	40	18
25%	9	11	45	25	9	13	45	25	9	12	42	22
50%	10	13	49	26	9	14	49	27	10	13	46	23
75%	11	15	51	28	11	15	52	28	11	16	50	25
98%	13	18	56	30	13	18	55	30	11	18	53	27
Max.	13	18	57	30	13	18	55	30	11	18	54	27
Avg.	10	13	48	26	10	14	48	26	10	13	46	23
SD	2	3	6	3	2	2	5	3	1	3	6	4
No. of obs	8				8				8			
Code & Station	A4 - Gaontala village				A5 - Kanyatwadi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	7	9	40	21	7	9	40	25				
10%	8	9	42	23	8	10	44	25				
25%	9	10	46	26	9	11	47	26				
50%	10	12	49	27	10	13	50	27				
75%	11	14	52	28	11	15	53	28				
98%	12	18	55	32	12	18	57	30				
Max.	12	18	55	32	12	18	57	30				
Avg.	10	12	48	27	10	13	50	27				
SD	2	3	5	3	2	3	5	2				
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.			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Nature of Sample	: Surface Water			
Sample Location	: W1 - Pit water			
Date of sample collection	: 11.12.2025			
Date of sample receipt	: 12.12.2025			
Report No	: M007525122			
Issue Date	: 03.01.2026			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
	Sample code	W1	Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
Sl. No.	Parameters	Results		
1	Colour (Hazen Units), & Odour	3	—	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max	18	100	IS 3025 (P-17) 2022
3	Particle size of suspended solids	Pass through 850 micron	Shall Pass through 850 micron	AOHA 23rd edition
4	pH	6.85	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C	25	Shall not exceed 5° C above the receiving water temp	IS 3025 (Part 9) 2023
6	Oil & Grrase (mg/l), Max	<4.0	10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l), Max	<0.1	1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l), Max	<0.1	50	IS 3025 (P-34 Sec 1) 2023
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.1	100	IS 3025 (P-34 Sec 1) 2023
10	Free Ammonia as NH ₃ (mg/l), Max	<0.01	5.0	IS 3025 (P-34 Sec 1) 2023
11	BOD [3 days at 27 ^o C] (mg/l), Max	<3.0	30	IS 3025 (Part 44) 2023
12	COD (mg/l), Max	10	250	IS 3025 (Part 58) 2023
13	Arsenic as As (mg/l), Max	<0.05	0.2	APHA 24th Ed.Method No.3030K
14	Mercury as Hg (mg/l), Max	<0.001	0.01	APHA 24th Ed.Method No.3030K
15	Lead as Pb (mg/l), Max	<0.05	0.1	APHA 24th Ed.Method No.3030K
16	Cadmium as Cd (mg/l), Max	<0.01	2.0	APHA 24th Ed.Method No.3030K
17	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52) 2014
18	Total Chromium as Cr(mg/l), Max	<0.01	2.0	APHA 24th Ed.Method No.3030K
19	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 24th Ed.Method No.3030K
20	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 24th Ed.Method No.3030K
21	Selenium as Se (mg/l), Max	<0.05	0.05	APHA 24th Ed.Method No.3030K
22	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 24th Ed.Method No.3030K
23	Cyanide as CN (mg/l), Max	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l), Max	<0.1	2.0	APHA 24th Edition 4500F
25	Dissolved Phosphates as PO ₄ (mg/l), Max	<0.1	5.0	IS 3025 (P-31) Sec 1 2022
26	Sulphide as S (mg/l), Max	<0.01	2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
28	Manganese as Mn (mg/l), Max	<0.01	2	APHA 24th Ed.Method No.3030K
29	Iron as Fe (mg/l), Max	<0.05	3	APHA 24th Ed.Method No.3030K
30	Vanadium as V (mg/l), Max	<0.01	0.2	APHA 24th Ed.Method No.3030K
31	Nitrate Nitrogen (mg/l), Max	6.7	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	: 11.12.2025
Date of sample receipt	: 12.12.2025
Issue Date	: 03.01.2026
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI

Report No		M007625122	-	Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
Sl. No.	Sample code	W2	W3		
	Parameters	Results			
1	Colour (Hazen Units), & Odour	1		--	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max	13		100	IS 3025 (P-17) 2022
3	Particle size of suspended solids	Pass through 850 micron		Shall Pass through 850 micron	AOHA 23rd edition
4	pH	6.96		5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature °C	25		Shall not exceed 5°C above the receiving water temp	IS 3025 (Part 9) 2023
6	Oil & Grease (mg/l), Max	<4.0		10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l), Max	<0.1		1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l), Max	<0.1		50	IS 3025 (P-34 Sec 1) 2023
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.1		100	IS 3025 (P-34 Sec 1) 2023
10	Free Ammonia as NH ₃ (mg/l), Max	<0.01		5.0	IS 3025 (P-34 Sec 1) 2023
11	BOD [3 days at 27°C] (mg/l), Max	<3.0		30	IS 3025 (Part 44) 2023
12	COD (mg/l), Max	18		250	IS 3025 (Part 58) 2023
13	Arsenic as As (mg/l), Max	<0.05		0.2	APHA 24th Ed. Method No.3030K
14	Mercury as Hg (mg/l), Max	<0.001		0.01	APHA 24th Ed. Method No.3030K
15	Lead as Pb (mg/l), Max	<0.05	No Runoff	0.1	APHA 24th Ed. Method No.3030K
16	Cadmium as Cd (mg/l), Max	<0.01		2.0	APHA 24th Ed. Method No.3030K
17	Hexavalent Chromium as Cr ⁶⁺ (mg/l), Max	<0.03		0.1	IS 3025 (P-52) 2014
18	Total Chromium as Cr (mg/l), Max	<0.01		2.0	APHA 24th Ed. Method No.3030K
19	Copper as Cu (mg/l), Max	<0.05		3.0	APHA 24th Ed. Method No.3030K
20	Zinc as Zn (mg/l), Max	<0.05		5.0	APHA 24th Ed. Method No.3030K
21	Selenium as Se (mg/l), Max	<0.05		0.05	APHA 24th Ed. Method No.3030K
22	Nickel as Ni (mg/l), Max	<0.05		3.0	APHA 24th Ed. Method No.3030K
23	Cyanide as CN (mg/l), Max	<0.01		0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l), Max	<0.1		2.0	APHA 24th Edition 4500F
25	Dissolved Phosphates as PO ₄ (mg/l), Max	<0.1		5.0	IS 3025 (P-31) Sec 1 2022
26	Sulphide as S (mg/l), Max	<0.01		2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001		1.0	IS 3025 (P-43) Sec 1 2022
28	Manganese as Mn (mg/l), Max	<0.01		2	APHA 24th Ed. Method No.3030K
29	Iron as Fe (mg/l), Max	<0.05		3	APHA 24th Ed. Method No.3030K
30	Vanadium as V (mg/l), Max	<0.01		0.2	APHA 24th Ed. Method No.3030K
31	Nitrate Nitrogen (mg/l), Max	2.3		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.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Nature of Sample	: Surface Water
Sample Location	: SW1 - Kanyal tank water, SW2 - Nallah water Near Kanyalwadi SW3- Near Hanuman temple Kanyalwadi village
Date of sample collection	: 11.12.2025
Date of sample receipt	: 12.12.2025
Issue Date	: 03.01.2026
Ref : IS : 2296 Water Quality Standards	

Sl. No.	Report No	M007825122	M007925122	M008025122	Limits	Method of Testing
	Sample Code	SW1	SW2	SW3		
	Parameters	Results				
1	Colour (Hazen Units)	1	3	1	300	IS 3025 (Part 4) 2021
2	pH	6.94	6.70	6.55	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.80	5.70	5.80	Min 4	IS 3025 (Part 36):1989 RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	Max 3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	72	80	69	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	124	216	108	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	40.0	60.0	20.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	28.0	50.0	18.0	400	APHA (24th Edition) :4110B
9	Nitrates (as NO ₃),mg/l	2.00	4.00	1.20	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	<0.1	<0.1	<0.1	1.5	IS 3025 (Part 60-Sec1) 2023
11	Copper (as Cu),mg/l	<0.0005	<0.0005	<0.0005	1.5	IS 3025 (Part 65) 2022
12	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	50	IS 3025 (Part 65) 2022
13	Zinc (as Zn),mg/l	<0.005	<0.005	<0.005	15	IS 3025 (Part 65) 2022
14	Total Arsenic (as As), (mg/l)	<0.0005	<0.0005	<0.0005	0.2	IS 3025 (Part 65) 2022
15	Lead (as Pb), mg/l	<0.0005	<0.0005	<0.0005	0.1	IS 3025 (Part 65) 2022
16	Cadmium (as Cd), mg/l,	<0.0005	<0.0005	<0.0005	0.01	IS 3025 (Part 65) 2022
17	Hexavalent Chromium (as Cr ^{VI}), mg/l	<0.03	<0.03	<0.03	0.05	IS 3025 (Part 52):2019 RA 2023
18	Selenium (as Se), mg/l	<0.0005	<0.0005	<0.0005	0.05	IS 3025 (Part 65) 2022
19	Cyanide (as CN), mg/l,	<0.01	<0.01	<0.01	0.05	IS 3025 (Part 27/Sec1) 2021
20	Phenolic compounds (as C ₆ H ₅ OH),mg/l	<0.001	<0.001	<0.001	0.005	IS 3025 (Part 43/Sec1) 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	<0.1	1.0	IS 3025 (Part 68) 2023

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		: 11.12.2025		
Date of sample receipt		: 12.12.2025		
Report no		: M008125122		
Issue Date		: 03.01.2026		
Ref		:Schedule -1 SI.No-2 of CTO		
Sl. No.	Sample code		Standards	Method of Testing
	Parameters	Results		
1	pH	6.88	-	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand BOD ₅ 27 ⁰ C, mg/l	18	<100	IS 3025 (Part 44) 2023
3	Total Suspended Solids, at 105 ⁰ C, mg/l	24	<100	IS 3025 (P-17) 2022

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