

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	September -2026

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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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	: 05.10.2026						
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	September, 2026	No Mining Operation					
FA2 - Haulage road							
FA3 - Near Loading Area							
FA4 - Screening Area							
Limits for 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							

Arushi Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

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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 : 05.10.2026

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
04.09.2026	N012426091	11	12	40	26	<20	<1
05.09.2026	N007426092	9	13	46	28	<20	<1
07.09.2026	N013326092	10	14	44	22	<20	<1
08.09.2026	N018526092	7	9	39	18	<20	<1
16.09.2026	N010326093	10	13	27	16	<20	<1
17.09.2026	N015226093	7	9	46	24	<20	<1
23.09.2026	N021226094	9	11	37	21	<20	<1
24.09.2026	N024626094	10	13	35	16	<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
04.09.2026	N012426091	0.18	<0.1	<0.5	<0.5	0.24	22
05.09.2026	N007426092	0.16	<0.1	<0.5	<0.5	0.30	21
07.09.2026	N013326092	0.22	<0.1	<0.5	<0.5	0.20	26
08.09.2026	N018526092	0.17	<0.1	<0.5	<0.5	0.22	18
16.09.2026	N010326093	0.25	<0.1	<0.5	<0.5	0.21	25
17.09.2026	N015226093	0.19	<0.1	<0.5	<0.5	0.25	27
23.09.2026	N021226094	0.25	<0.1	<0.5	<0.5	0.23	30
24.09.2026	N024626094	0.23	<0.1	<0.5	<0.5	0.29	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.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	: 05.10.2026
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
04.09.2026	N012526091	6	9	36	22	<20	<1
05.09.2026	N007526092	8	10	25	13	<20	<1
07.09.2026	N013426092	10	12	32	18	<20	<1
08.09.2026	N018626092	7	9	48	25	<20	<1
16.09.2026	N010426093	9	11	37	19	<20	<1
17.09.2026	N015326093	8	10	45	24	<20	<1
23.09.2026	N021326094	10	12	40	22	<20	<1
24.09.2026	N024726094	12	14	28	15	<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
04.09.2026	N012526091	0.17	<0.1	<0.5	<0.5	0.21	19
05.09.2026	N007526092	0.12	<0.1	<0.5	<0.5	0.25	26
07.09.2026	N013426092	0.11	<0.1	<0.5	<0.5	0.18	20
08.09.2026	N018626092	0.28	<0.1	<0.5	<0.5	0.22	22
16.09.2026	N010426093	0.14	<0.1	<0.5	<0.5	0.20	24
17.09.2026	N015326093	<0.1	<0.1	<0.5	<0.5	0.26	27
23.09.2026	N021326094	0.12	<0.1	<0.5	<0.5	0.21	29
24.09.2026	N024726094	0.22	<0.1	<0.5	<0.5	0.26	25
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	: 05.10.2026
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
04.09.2026	N012626091	11	13	27	14	<20	<1
05.09.2026	N007626092	8	10	31	16	<20	<1
07.09.2026	N013526092	6	9	48	26	<20	<1
08.09.2026	N018726092	7	9	43	25	<20	<1
16.09.2026	N010526093	9	11	37	19	<20	<1
17.09.2026	N015426093	10	12	42	23	<20	<1
23.09.2026	N021426094	6	10	38	17	<20	<1
24.09.2026	N024826094	11	12	44	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
04.09.2026	N012626091	0.25	<0.1	<0.5	<0.5	<0.2	26
05.09.2026	N007626092	0.16	<0.1	<0.5	<0.5	0.20	28
07.09.2026	N013526092	0.10	<0.1	<0.5	<0.5	0.24	23
08.09.2026	N018726092	0.22	<0.1	<0.5	<0.5	0.22	22
16.09.2026	N010526093	0.13	<0.1	<0.5	<0.5	0.29	27
17.09.2026	N015426093	0.11	<0.1	<0.5	<0.5	0.25	25
23.09.2026	N021426094	0.20	<0.1	<0.5	<0.5	0.26	29
24.09.2026	N024826094	0.21	<0.1	<0.5	<0.5	0.21	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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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	: 05.10.2026
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
04.09.2026	N012726091	8	10	35	18	<20	<1
05.09.2026	N007726092	7	9	29	16	<20	<1
07.09.2026	N013626092	9	11	34	17	<20	<1
08.09.2026	N018826092	6	9	43	25	<20	<1
16.09.2026	N010626093	8	10	39	19	<20	<1
17.09.2026	N015526093	7	9	25	15	<20	<1
23.09.2026	N021526094	9	11	37	20	<20	<1
24.09.2026	N024926094	7	10	42	22	<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
04.09.2026	N012726091	0.28	<0.1	<0.5	<0.5	0.25	19
05.09.2026	N007726092	0.13	<0.1	<0.5	<0.5	0.27	21
07.09.2026	N013626092	0.29	<0.1	<0.5	<0.5	0.20	22
08.09.2026	N018826092	0.23	<0.1	<0.5	<0.5	0.21	23
16.09.2026	N010626093	0.15	<0.1	<0.5	<0.5	0.25	28
17.09.2026	N015526093	0.22	<0.1	<0.5	<0.5	0.28	24
23.09.2026	N021526094	0.31	<0.1	<0.5	<0.5	0.22	26
24.09.2026	N024926094	0.28	<0.1	<0.5	<0.5	<0.2	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. 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 : 05.10.2026

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
02.09.2026	N003426091	6	9	39	16	<20	<1
03.09.2026	N007326091	8	9	26	16	<20	<1
09.09.2026	N021526092	10	11	45	23	<20	<1
10.09.2026	N024926092	6	9	38	18	<20	<1
18.09.2026	N022026093	8	10	42	22	<20	<1
19.09.2026	N006026094	10	13	47	26	<20	<1
21.09.2026	N011326094	9	11	35	17	<20	<1
22.09.2026	N016626094	8	10	29	15	<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
02.09.2026	N003426091	0.23	<0.1	<0.5	<0.5	0.28	18
03.09.2026	N007326091	0.27	<0.1	<0.5	<0.5	0.25	16
09.09.2026	N021526092	0.15	<0.1	<0.5	<0.5	0.27	27
10.09.2026	N024926092	0.19	<0.1	<0.5	<0.5	0.22	18
18.09.2026	N022026093	0.20	<0.1	<0.5	<0.5	0.20	17
19.09.2026	N006026094	0.14	<0.1	<0.5	<0.5	0.26	25
21.09.2026	N011326094	<0.1	<0.1	<0.5	<0.5	0.18	20
22.09.2026	N016626094	0.22	<0.1	<0.5	<0.5	<0.2	23
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 : 05.10.2026					
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)
02.09.2026	N003526091	6	8	33	14
03.09.2026	N007426091	9	11	49	26
09.09.2026	N021626092	7	9	42	23
10.09.2026	N025026092	6	8	38	19
18.09.2026	N022126093	10	11	35	15
19.09.2026	N006126094	8	10	41	25
21.09.2026	N011426094	6	9	34	15
22.09.2026	N016726094	7	9	39	17
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 : 05.10.2026					
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)
02.09.2026	N003626091	9	11	46	25
03.09.2026	N007526091	11	13	33	16
09.09.2026	N021726092	6	8	42	23
10.09.2026	N025126092	10	11	26	14
18.09.2026	N022226093	7	9	30	15
19.09.2026	N006226094	6	8	35	16
21.09.2026	N011526094	8	10	45	24
22.09.2026	N016826094	9	10	47	26
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. 9

STATISTICAL AIR QUALITY DATA

Name of the Client : M/s. Gogte Minerals												
Name of the Project : Redi Iron Ore Mine (203)												
Month : September, 2026												
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	27	16	6	9	25	13	6	9	27	14
10%	7	9	33	16	7	9	27	14	6	9	30	15
25%	9	11	37	18	8	10	31	17	7	10	36	17
50%	10	13	40	22	9	11	37	21	9	11	40	21
75%	10	13	45	25	10	12	41	23	10	12	43	24
98%	11	14	46	28	12	14	48	25	11	13	47	26
Max.	11	14	46	28	12	14	48	25	11	13	48	26
Avg.	9	12	39	21	9	11	36	20	9	11	39	21
SD	1	2	6	5	2	2	8	4	2	1	7	5
No. of obs	8				8				8			
Code & Station	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.	6	9	25	15	6	9	26	15				
10%	7	9	28	16	6	9	28	16				
25%	7	9	33	17	8	9	34	16				
50%	8	10	36	19	8	10	39	18				
75%	8	10	40	21	9	11	43	22				
98%	9	11	43	25	10	13	47	26				
Max.	9	11	43	25	10	13	47	26				
Avg.	8	10	36	19	8	10	38	19				
SD	1	1	6	3	2	1	7	4				
No. of obs	8				8							

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TEST REPORT

Table No.10

Table No. 1

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	: 05.09.2026
Date of sample receipt	: 06.09.2026
Report No	: M004426092
Issue Date	: 05.10.2026
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	10	--	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max	35	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	6.91	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C	27.2	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° C] (mg/l), Max	<3.0	30	IS 3025 (Part 44) 2023
12	COD (mg/l), Max	28.8	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	<0.1	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	0.41	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	3.2	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		: 05.09.2026			
Date of sample receipt		: 06.09.2026			
Issue Date		: 05.10.2026			
Ref		: Environmental (P) Rules, 1986 SCHEDULE VI			
Report No		-	M004526092	Standards for Effluent	
Sl. No.	Sample code	W2	W3	Discharge of Environmental Pollutants	Method of Testing
	Parameters	Results			
1	Colour (Hazen Units), & Odour	15		--	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max	33		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	6.32		5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature °C	26.8		Shall not exceed 5°C above the receiving water temp	IS 3025 (Part 9) 2023
6	Oil & Grasse (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	<5.0		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	<0.1		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	0.18		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	1.2		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	: 05.09.2026
Date of sample receipt	: 06.09.2026
Issue Date	: 05.10.2026
Ref : IS : 2296 Water Quality Standards	

Annexure - 15 : 2250 Water Quality Standards						
Sl. No.	Report No	M004626092	M004726092	M004826092	Limits	Method of Testing
	Sample Code	SW1	SW2	SW3		
	Parameters	Results				
1	Colour (Hazen Units)	10	10	15	300	IS 3025 (Part 4) 2021
2	pH	6.64	6.57	6.55	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.50	5.70	5.40	Min 4	IS 3025 (Part 38):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)	38	140	70	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	185	343	277	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	55.00	138.00	150.00	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	37.00	82.00	25.33	400	APHA (24th Edition) :4110B
9	Nitrates (as NO ₃),mg/l	0.19	0.44	0.28	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 ⁺⁶),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		: 05.09.2026		
Date of sample receipt		: 06.09.2026		
Report no		: M004326092		
Issue Date		: 05.10.2026		
Ref		: Schedule -1 Sl.No-2 of CTO		
Sample code		STP1	Standards	Method of Testing
Sl. No.	Parameters	Results		
1	pH	6.79	-	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand BOD ₅ 27 ⁰ C, mg/l	10	<100	IS 3025 (Part 44) 2023
3	Total Suspended Solids, at 105 ⁰ C, mg/l	28	<100	IS 3025 (P-17) 2022

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