

ENVIRONMENTAL MONITORING REPORT

December, 2024

PROJECT: REDI IRON ORE MINE (Block -1)
village Redi, Vengurla taluka, Sindhudurg district,
Maharashtra State.

Lessee: M/S. GOGTE MINERALS
BELAGAVI
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

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)					
Duration		: 08 Hrs					
Issue Date		: 03.01.2025					
Station at & Code	Date of sample	Lab Code	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- Dumping site (North Eastern side of Mining Lease)	20.12.2024	N/24/12/5-0183	12	18	123	326	0.45
	24.12.2024	N/24/12/6-0123	10	14	154	358	0.35
FA2 - Haulage/Transport road	20.12.2024	N/24/12/5-0184	12	16	163	389	0.28
	24.12.2024	N/24/12/6-0124	11	13	185	421	0.33
FA3 - Near Mine Pit Edge	20.12.2024	N/24/12/5-0185	9	12	125	268	0.28
	24.12.2024	N/24/12/6-0125	10	11	162	325	0.36
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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Dy. T.M. - Chemical

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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)
 Station at & Code : A1 - Core Zone Near Mine Office
 Duration : 24 Hrs
 Issue Date : 03.01.2025
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	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
06.12.2024	N/24/12/3-0145	9	10	47	23	<20	<1
07.12.2024	N/24/12/3-0237	9	10	50	26	<20	<1
09.12.2024	N/24/12/4-0039	11	10	44	24	<20	<1
10.12.2024	N/24/12/4-0094	10	14	48	24	<20	<1
21.12.2024	N/24/12/5-0272	10	13	52	30	<20	<1
21.12.2024	N/24/12/5-0273	12	15	58	32	<20	<1
23.12.2024	N/24/12/6-0054	11	14	53	27	<20	<1
24.12.2024	N/24/12/6-0116	10	12	45	22	<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	Lab Code	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
06.12.2024	N/24/12/3-0145	0.18	<0.1	<0.5	<0.5	0.36	25
07.12.2024	N/24/12/3-0237	0.13	<0.1	<0.5	<0.5	0.29	22
09.12.2024	N/24/12/4-0039	0.21	<0.1	<0.5	<0.5	0.25	30
10.12.2024	N/24/12/4-0094	0.22	<0.1	<0.5	<0.5	0.26	24
21.12.2024	N/24/12/5-0272	0.15	<0.1	<0.5	<0.5	0.33	25
21.12.2024	N/24/12/5-0273	0.13	<0.1	<0.5	<0.5	0.28	25
23.12.2024	N/24/12/6-0054	0.21	<0.1	<0.5	<0.5	0.20	26
24.12.2024	N/24/12/6-0116	0.25	<0.1	<0.5	<0.5	0.26	25
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. 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)
Station at & Code	: A2 - Redi village
Duration	: 24 Hrs
Issue Date	: 03.01.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	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
06.12.2024	N/24/12/3-0146	8	10	48	24	<20	<1
07.12.2024	N/24/12/3-0238	11	12	48	25	<20	<1
09.12.2024	N/24/12/4-0040	10	15	40	22	<20	<1
10.12.2024	N/24/12/4-0095	12	18	52	27	<20	<1
21.12.2024	N/24/12/5-0274	7	14	48	25	<20	<1
21.12.2024	N/24/12/5-0275	9	11	50	26	<20	<1
23.12.2024	N/24/12/6-0055	12	15	54	26	<20	<1
24.12.2024	N/24/12/6-0117	11	18	57	26	<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	Lab Code	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
06.12.2024	N/24/12/3-0146	0.16	<0.1	<0.5	<0.5	0.32	21
07.12.2024	N/24/12/3-0238	0.17	<0.1	<0.5	<0.5	0.23	20
09.12.2024	N/24/12/4-0040	0.14	<0.1	<0.5	<0.5	0.24	26
10.12.2024	N/24/12/4-0095	0.12	<0.1	<0.5	<0.5	0.28	21
21.12.2024	N/24/12/5-0274	0.18	<0.1	<0.5	<0.5	0.29	24
21.12.2024	N/24/12/5-0275	0.12	<0.1	<0.5	<0.5	0.23	23
23.12.2024	N/24/12/6-0055	0.21	<0.1	<0.5	<0.5	0.24	20
24.12.2024	N/24/12/6-0117	0.23	<0.1	<0.5	<0.5	0.27	24
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)
Station at & Code	: A3 - Shiroda village
Duration	: 24 Hrs
Issue Date	: 03.01.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	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
06.12.2024	N/24/12/3-0147	8	9	42	20	<20	<1
07.12.2024	N/24/12/3-0239	7	14	47	26	<20	<1
09.12.2024	N/24/12/4-0041	10	11	48	23	<20	<1
10.12.2024	N/24/12/4-0096	9	11	50	26	<20	<1
21.12.2024	N/24/12/5-0276	10	13	38	21	<20	<1
21.12.2024	N/24/12/5-0277	7	14	47	26	<20	<1
23.12.2024	N/24/12/6-0056	11	13	50	27	<20	<1
24.12.2024	N/24/12/6-0118	9	11	37	21	<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	Lab Code	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
06.12.2024	N/24/12/3-0147	0.27	<0.1	<0.5	<0.5	0.22	21
07.12.2024	N/24/12/3-0239	0.21	<0.1	<0.5	<0.5	0.21	26
09.12.2024	N/24/12/4-0041	0.18	<0.1	<0.5	<0.5	0.26	20
10.12.2024	N/24/12/4-0096	0.15	<0.1	<0.5	<0.5	0.25	21
21.12.2024	N/24/12/5-0276	0.26	<0.1	<0.5	<0.5	0.26	25
21.12.2024	N/24/12/5-0277	0.21	<0.1	<0.5	<0.5	0.21	20
23.12.2024	N/24/12/6-0056	0.17	<0.1	<0.5	<0.5	0.35	25
24.12.2024	N/24/12/6-0118	0.15	<0.1	<0.5	<0.5	0.27	21
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)
Station at & Code	: A4 - Gaontala village
Duration	: 24 Hrs
Issue Date	: 03.01.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	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
06.12.2024	N/24/12/3-0148	11	16	48	29	<20	<1
07.12.2024	N/24/12/3-0240	10	14	50	26	<20	<1
09.12.2024	N/24/12/4-0042	9	12	41	19	<20	<1
10.12.2024	N/24/12/4-0097	11	18	49	17	<20	<1
21.12.2024	N/24/12/5-0278	6	9	45	17	<20	<1
21.12.2024	N/24/12/5-0279	6	11	41	24	<20	<1
23.12.2024	N/24/12/6-0057	7	14	50	26	<20	<1
24.12.2024	N/24/12/6-0119	9	12	36	20	<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	Lab Code	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
06.12.2024	N/24/12/3-0148	0.13	<0.1	<0.5	<0.5	0.32	22
07.12.2024	N/24/12/3-0240	0.27	<0.1	<0.5	<0.5	0.20	23
09.12.2024	N/24/12/4-0042	0.22	<0.1	<0.5	<0.5	0.24	25
10.12.2024	N/24/12/4-0097	0.26	<0.1	<0.5	<0.5	0.29	28
21.12.2024	N/24/12/5-0278	0.15	<0.1	<0.5	<0.5	0.20	26
21.12.2024	N/24/12/5-0279	0.13	<0.1	<0.5	<0.5	0.21	27
23.12.2024	N/24/12/6-0057	0.10	<0.1	<0.5	<0.5	0.24	25
24.12.2024	N/24/12/6-0119	0.17	<0.1	<0.5	<0.5	0.33	24
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)
Station at & Code	: A5 - Kanyalwadi village
Duration	: 24 Hrs
Issue Date	: 03.01.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	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
06.12.2024	N/24/12/3-0149	10	11	47	23	<20	<1
07.12.2024	N/24/12/3-0241	11	13	40	21	<20	<1
09.12.2024	N/24/12/4-0043	10	18	50	25	<20	<1
10.12.2024	N/24/12/4-0098	12	15	44	26	<20	<1
21.12.2024	N/24/12/5-0280	9	11	58	33	<20	<1
21.12.2024	N/24/12/5-0281	11	14	47	24	<20	<1
23.12.2024	N/24/12/6-0058	8	12	54	32	<20	<1
24.12.2024	N/24/12/6-0120	7	10	49	28	<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	Lab Code	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
06.12.2024	N/24/12/3-0149	0.19	<0.1	<0.5	<0.5	0.29	27
07.12.2024	N/24/12/3-0241	0.24	<0.1	<0.5	<0.5	0.37	25
09.12.2024	N/24/12/4-0043	0.23	<0.1	<0.5	<0.5	0.28	26
10.12.2024	N/24/12/4-0098	0.22	<0.1	<0.5	<0.5	0.22	20
21.12.2024	N/24/12/5-0280	0.27	<0.1	<0.5	<0.5	0.25	23
21.12.2024	N/24/12/5-0281	0.16	<0.1	<0.5	<0.5	0.29	26
23.12.2024	N/24/12/6-0058	0.19	<0.1	<0.5	<0.5	0.25	20
24.12.2024	N/24/12/6-0120	0.12	<0.1	<0.5	<0.5	0.32	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.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)				
Station at & Code	: A6 - Near NIMCO Gate - Tivrewadi, Redi village				
Duration	: 24 Hrs				
Issue Date	: 03.01.2025				
Reference	IS 5182 & Lab SOP				
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
06.12.2024	N/24/12/3-0150	12	15	59	32
07.12.2024	N/24/12/3-0242	11	14	57	28
09.12.2024	N/24/12/4-0044	14	16	47	24
10.12.2024	N/24/12/4-0099	11	13	53	25
21.12.2024	N/24/12/5-0282	7	9	55	27
21.12.2024	N/24/12/5-0283	10	13	50	26
23.12.2024	N/24/12/6-0059	12	17	46	25
24.12.2024	N/24/12/6-0121	9	11	53	27
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. 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)				
Station at & Code	: A7 - Near Primary School - sakalbhatwadi Redi village				
Duration	: 24 Hrs				
Issue Date	: 03.01.2025				
Reference	IS 5182 & Lab SOP				
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
06.12.2024	N/24/12/3-0151	12	18	52	28
07.12.2024	N/24/12/3-0243	9	12	47	25
09.12.2024	N/24/12/4-0045	12	15	44	25
10.12.2024	N/24/12/4-0100	9	11	56	32
21.12.2024	N/24/12/5-0284	8	12	52	28
21.12.2024	N/24/12/5-0285	12	18	54	29
23.12.2024	N/24/12/6-0060	11	13	46	23
24.12.2024	N/24/12/6-0122	12	15	51	27
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 : M/s. Gogte Minerals												
Name of the : Redi Iron Ore Mine (203)												
Month : December, 2024												
Station Code : A4 - Core Zone (ML Area, behind the Mines Office)					Station Code : A5 - Redi village				Station Code : A6 - 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	10	44	22	7	10	40	22	7	9	37	20
10%	9	10	45	23	8	11	46	23	7	10	38	21
25%	10	10	47	24	9	12	48	25	8	11	41	21
50%	10	13	49	25	11	15	49	26	9	12	47	25
75%	11	14	52	28	11	16	53	26	10	13	49	26
98%	12	15	57	32	12	18	57	27	11	14	50	27
Max.	12	15	58	32	12	18	57	27	11	14	50	27
Avg.	10	12	50	26	10	14	50	25	9	12	45	24
SD	1	2	5	4	2	3	5	2	1	2	5	3
No. of obs	8				8				8			
Station Code : A7 - Gaontala village					Station Code : A8 - Kanyalwadi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	6	9	36	17	7	10	40	21				
10%	6	10	40	17	8	11	43	22				
25%	7	12	41	19	9	11	46	24				
50%	9	13	47	22	10	13	48	26				
75%	10	15	49	26	11	14	51	29				
98%	11	18	50	29	12	18	57	33				
Max.	11	18	50	29	12	18	58	33				
Avg.	9	13	45	22	10	13	49	27				
SD	2	3	5	5	2	3	6	4				
No. of obs	8				8							

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TEST REPORT

Table No. 10
Report No: N026724124

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203) Redi village, Vengurla taluk, Sindhudurg (dist), Maharashtra State.			
Particulars of sample collected	: SW1 - Pit water			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection	: 14.12.2024			
Lab Code	: N/24/12/4-0267			
Issue Date	: 30.12.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	3	—	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l), Max	6	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	6.18	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 (P-9) 1984 RA2022
6	Oil & Grease (mg/l), Max	<1.0	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) 1988 RA 2019
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.1	100	IS 3025 (P-34) 1988 RA 2019
10	Free Ammonia as NH ₃ (mg/l), Max	<0.1	5.0	IS 3025 (P-34) 1988 RA 2019
11	BOD [3 days at 27°C] (mg/l), Max	<3	30	IS 3025 (P-44) 2014
12	COD (mg/l), Max	40	250	IS 3025 (P-58) 2006 RA2022
13	Arsenic as As (mg/l), Max	<0.01	0.2	APHA 3030K
14	Mercury as Hg (mg/l), Max	<0.001	0.01	APHA 3030K
15	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 3030K
16	Cadmium as Cd (mg/l), Max	<0.01	2.0	APHA 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 3030K
19	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 3030K
20	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 3030K
21	Selenium as Se (mg/l), Max	<0.05	0.05	APHA 3030K
22	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 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	0.56	2.0	APHA23rd Edition 4500F
25	Dissolved Phosphates as PO ₄ (mg/l), Max	<0.05	5.0	IS 2488 (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	Radio Active materials			
	a) Alpha Emitters (µcurie/ml), Max	NA	10 ⁻⁷	APHA 21 st
	b) Beta Emitters (µcurie/ml), Max	NA	10 ⁻⁶	APHA 21 st
29	Bio-assay test	NA	90% survival of fish after 96 hrs in 100% effluent)	IS 6582 (Part-1)
30	Manganese as Mn (mg/l), Max	<0.01	2	APHA 3030K
31	Iron as Fe (mg/l), Max	<0.05	3	APHA 3030K
32	Vanadium as V (mg/l), Max	<0.01	0.2	APHA 3030K
33	Nitrate Nitrogen (mg/l), Max	<0.1	10	IS 3025 (P-34) 1988 RA 2019
34	Fixed Dissolved Solids (FDS) mg/l	1750	—	IS 3025(P-18) 2022
35	Chlorides (as Cl), mg/l	1200	—	IS 3025 (P-32) 1988 RA2019

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), village Redi, Vengurla taluka, Sindhudurg dist, MH State.
Particulars of sample collected	: SW2 - Kanyal tank water, SW3 - Nallah water Near Kanyalwadi SW4- Near Hanuman temple Kanyalwadi village
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Date of sample collection	: 14.12.2024
Issue Date	: 30.12.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Sl. No.	Lab Code	N/24/12/4-0268	N/24/12/4-0269	N/24/12/4-0270	Limits For Stream Water Standards	Method of Testing
	Sample Code	SW2	SW3	SW4		
	Parameters	Results				
1	Colour (Hazen Units), Max	1	1	1	300	IS:3025(Part-4)2021
2	pH	6.86	6.60	5.67	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.6	5.4	5.7	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<0.1	<0.1	<0.1	0.1	IS:3025(Part-39) 2021
5	Total Dissolved Solids (mg/l), Max	290	306	115	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	5.8	8.1	3.6	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	<0.005	1.5	IS:3025(Part-42) 2019
9	Chloride (as Cl),mg/l, Max	110.0	160.0	46.0	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.32	0.40	<0.1	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<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	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates (as SO ₄), mg/l, Max	70.0	85.0	12.0	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	<0.01	0.05	IS:3025(P-27) Sec 12021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml, Max	325	210	155	5000	IS:1622:1981

"END OF REPORT"

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TEST REPORT

Table No. 12

Report No :N027124124

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, Maharashtra State.			
Particulars of sample collected	: Sewage Treatment Plant Water Sample			
Date of sample collection	: 14.12.2024			
Lab Code	: N/24/12/4-0271			
Issue Date	: 30.01.2025			
Ref	: Schedule -1 Sl.No-2 of CTO			
Sl. No.	Parameters	Results	Standards	Method of Testing
1	pH	7.85	6.5 -9.0	AOHA (23 rd Edition) 4500H* - B
2	Biochemical Oxygen Demand BOD ₃ 27 ^o C, mg/l	22	<30	IS 3025 (P-44) 1993
3	Total Suspended Solids, at 105 ^o C, mg/l	58	<100	AOHA (23 rd Edition) 2540 - D
4	Fecal Coliform (FC), MPN/100ml	130	<1000	APHA 24 th Edition

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