

ENVIRONMENTAL MONITORING REPORT

February, 2024

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

Lessee: **M/S. GOGTE MINERALS**
BELAGAVI
KARNATAKA

CONSULTANT

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(Accredited by QCI-NABET ORG000756)
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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		: Redl Iron Ore Mine (203)				
Sample Collected by		: Environmental Laboratory Representative				
Station at & Code		: AI - Dumping site (North Eastern side of Mining Lease)				
Duration		: 24 Hrs				
Issue Date		: 04.03.2024				
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.02.2024	N/24/02/2-0221	12	16	285	187	0.28
10.02.2024	N/24/02/3-0033	10	14	216	146	0.22
12.02.2024	N/24/02/4-0043	9	12	321	132	0.26
13.02.2024	N/24/02/4-0073	10	14	376	115	0.31
23.02.2024	N/24/02/5-0154	12	18	165	140	0.25
24.02.2024	N/24/02/5-0200	11	15	251	124	0.22
26.02.2024	N/24/03/1-0053	9	16	254	168	0.36
27.02.2024	N/24/03/1-0103	10	14	268	145	0.24
Within in Mining Area Pollutant		SO ₂	NO ₂	SPM (PM)	RPM (PM ₁₀)	CO
Concentration in Ambient Air		120	120	500	250	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

Fugitive Emission

Name of the Client	: M/s. Gogte Minerals					
Name of the Project	: Redi Iron Ore Mine (203)					
Sample Collected by	: Environmental Laboratory Representative					
Station at & Code	: A2 - Haulage/Transport road					
Duration	: 24 Hrs					
Issue Date	: 04.03.2024					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.02.2024	N/24/02/2-0222	12	16	258	128	0.32
10.02.2024	N/24/02/3-0034	10	12	325	215	0.25
12.02.2024	N/24/02/4-0044	12	18	285	175	0.35
13.02.2024	N/24/02/4-0074	8	12	258	164	0.21
23.02.2024	N/24/02/5-0155	9	11	358	214	0.22
24.02.2024	N/24/02/5-0201	11	13	285	185	0.26
26.02.2024	N/24/03/1-0054	12	15	258	185	0.35
27.02.2024	N/24/03/1-0104	10	13	368	188	0.33
Within in Mining Area Pollutant		SO₂	NO₂	SPM (PM)	RPM (PM₁₀)	CO
Concentration in Ambient Air		120	120	500	250	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. 3

Fugitive Emission

Name of the Client	: M/s. Gogte Minerals					
Name of the Project	: Redi Iron Ore Mine (203)					
Sample Collected by	: Environmental Laboratory Representative					
Station at & Code	: A3 - Near Mine Pit Edge					
Duration	: 24 Hrs					
Issue Date	: 04.03.2024					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.02.2024	N/24/02/2-0223	9	14	315	126	0.22
10.02.2024	N/24/02/3-0035	12	14	289	130	0.26
12.02.2024	N/24/02/4-0045	11	16	264	140	0.28
13.02.2024	N/24/02/4-0075	9	11	315	154	0.24
23.02.2024	N/24/02/5-0156	11	15	265	115	0.36
24.02.2024	N/24/02/5-0202	12	18	257	124	0.22
26.02.2024	N/24/03/1-0055	10	14	248	130	0.24
27.02.2024	N/24/03/1-0105	12	16	275	125	0.31
Within in Mining Area Pollutant		SO₂	NO₂	SPM (PM)	RPM (PM₁₀)	CO
Concentration in Ambient Air		120	120	500	250	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. 4

Fugitive Emission

Name of the Client	: M/s. Gogte Minerals					
Name of the Project	: Redi Iron Ore Mine (203)					
Sample Collected by	: Environmental Laboratory Representative					
Station at & Code	: A11 - Proposed Dump Area					
Duration	: 24 Hrs					
Issue Date	: 04.03.2024					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.02.2024	N/24/02/2-0220	12	13	158	92	0.32
10.02.2024	N/24/02/3-0032	10	16	195	54	0.28
12.02.2024	N/24/02/4-0042	12	18	215	150	0.33
13.02.2024	N/24/02/4-0072	10	12	386	188	0.42
23.02.2024	N/24/02/5-0153	9	10	354	212	0.46
24.02.2024	N/24/02/5-0199	8	14	365	188	0.35
26.02.2024	N/24/03/1-0052	12	17	358	215	0.21
27.02.2024	N/24/03/1-0102	11	18	285	164	0.36
Within in Mining Area Pollutant		SO ₂	NO ₂	SPM (PM)	RPM (PM ₁₀)	CO
Concentration in Ambient Air		120	120	500	250	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. 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 Representative
Station at & Code	: A4 - Core Zone Near Mine Office
Duration	: 24 Hrs
Issue Date	: 04.03.2024
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
09.02.2024	N/24/02/2-0213	7	11	49	27	<20	<1
10.02.2024	N/24/02/3-0025	8	12	53	29	<20	<1
12.02.2024	N/24/02/4-0035	6	10	50	26	<20	<1
13.02.2024	N/24/02/4-0065	9	12	55	30	<20	<1
23.02.2024	N/24/02/5-0146	5	14	58	33	<20	<1
24.02.2024	N/24/02/5-0192	10	16	50	27	<20	<1
26.02.2024	N/24/03/1-0045	8	13	48	25	<20	<1
27.02.2024	N/24/03/1-0095	8	14	53	27	<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
09.02.2024	N/24/02/2-0213	<0.1	<0.1	<0.5	<0.5	0.22	27
10.02.2024	N/24/02/3-0025	0.11	<0.1	<0.5	<0.5	0.26	23
12.02.2024	N/24/02/4-0035	0.14	<0.1	<0.5	<0.5	0.35	25
13.02.2024	N/24/02/4-0065	0.12	<0.1	<0.5	<0.5	0.30	26
23.02.2024	N/24/02/5-0146	0.11	<0.1	<0.5	<0.5	0.28	24
24.02.2024	N/24/02/5-0192	0.22	<0.1	<0.5	<0.5	0.26	22
26.02.2024	N/24/03/1-0045	0.17	<0.1	<0.5	<0.5	0.23	21
27.02.2024	N/24/03/1-0095	0.12	<0.1	<0.5	<0.5	0.21	20
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.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 Representative
Station at & Code	: A5 - Redi village
Duration	: 24 Hrs
Issue Date	: 04.03.2024
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
09.02.2024	N/24/02/2-0214	9	13	46	28	<20	<1
10.02.2024	N/24/02/3-0026	8	10	49	24	<20	<1
12.02.2024	N/24/02/4-0036	11	15	56	32	<20	<1
13.02.2024	N/24/02/4-0066	10	12	53	28	<20	<1
23.02.2024	N/24/02/5-0147	13	9	42	26	<20	<1
24.02.2024	N/24/02/5-0193	12	15	55	31	<20	<1
26.02.2024	N/24/03/1-0046	11	18	49	24	<20	<1
27.02.2024	N/24/03/1-0096	9	12	35	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
09.02.2024	N/24/02/2-0214	0.15	<0.1	<0.5	<0.5	0.25	26
10.02.2024	N/24/02/3-0026	0.10	<0.1	<0.5	<0.5	0.29	26
12.02.2024	N/24/02/4-0036	<0.1	<0.1	<0.5	<0.5	0.32	28
13.02.2024	N/24/02/4-0066	0.19	<0.1	<0.5	<0.5	0.22	22
23.02.2024	N/24/02/5-0147	0.11	<0.1	<0.5	<0.5	0.27	21
24.02.2024	N/24/02/5-0193	0.15	<0.1	<0.5	<0.5	0.21	26
26.02.2024	N/24/03/1-0046	0.12	<0.1	<0.5	<0.5	0.34	22
27.02.2024	N/24/03/1-0096	0.17	<0.1	<0.5	<0.5	0.22	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 Representative
Station at & Code : A6 - Shiroda village
Duration : 24 Hrs
Issue Date : 04.03.2024
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
09.02.2024	N/24/02/2-0215	7	10	45	23	<20	<1
10.02.2024	N/24/02/3-0027	6	13	50	27	<20	<1
12.02.2024	N/24/02/4-0037	5	11	48	24	<20	<1
13.02.2024	N/24/02/4-0067	7	12	44	22	<20	<1
23.02.2024	N/24/02/5-0148	8	10	51	26	<20	<1
24.02.2024	N/24/02/5-0194	10	13	42	23	<20	<1
26.02.2024	N/24/03/1-0047	9	11	39	18	<20	<1
27.02.2024	N/24/03/1-0097	6	10	47	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
09.02.2024	N/24/02/2-0215	0.11	<0.1	<0.5	<0.5	0.23	26
10.02.2024	N/24/02/3-0027	0.14	<0.1	<0.5	<0.5	0.21	26
12.02.2024	N/24/02/4-0037	0.12	<0.1	<0.5	<0.5	0.25	25
13.02.2024	N/24/02/4-0067	0.18	<0.1	<0.5	<0.5	0.29	27
23.02.2024	N/24/02/5-0148	<0.1	<0.1	<0.5	<0.5	0.32	26
24.02.2024	N/24/02/5-0194	0.11	<0.1	<0.5	<0.5	0.33	24
26.02.2024	N/24/03/1-0047	0.12	<0.1	<0.5	<0.5	0.28	25
27.02.2024	N/24/03/1-0097	0.15	<0.1	<0.5	<0.5	0.24	26
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. 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 Representative
Station at & Code	: A7 - Gaontala village
Duration	: 24 Hrs
Issue Date	: 04.03.2024
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
09.02.2024	N/24/02/2-0216	10	13	57	32	<20	<1
10.02.2024	N/24/02/3-0028	9	11	55	27	<20	<1
12.02.2024	N/24/02/4-0038	9	12	47	26	<20	<1
13.02.2024	N/24/02/4-0068	10	12	50	27	<20	<1
23.02.2024	N/24/02/5-0149	11	13	46	26	<20	<1
24.02.2024	N/24/02/5-0195	10	13	53	24	<20	<1
26.02.2024	N/24/03/1-0048	11	12	40	22	<20	<1
27.02.2024	N/24/03/1-0098	9	11	50	27	<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
09.02.2024	N/24/02/2-0216	<0.1	<0.1	<0.5	<0.5	0.22	25
10.02.2024	N/24/02/3-0028	0.15	<0.1	<0.5	<0.5	0.25	27
12.02.2024	N/24/02/4-0038	0.10	<0.1	<0.5	<0.5	0.31	28
13.02.2024	N/24/02/4-0068	0.15	<0.1	<0.5	<0.5	0.29	26
23.02.2024	N/24/02/5-0149	0.13	<0.1	<0.5	<0.5	0.22	26
24.02.2024	N/24/02/5-0195	0.17	<0.1	<0.5	<0.5	0.32	20
26.02.2024	N/24/03/1-0048	0.14	<0.1	<0.5	<0.5	0.21	27
27.02.2024	N/24/03/1-0098	0.15	<0.1	<0.5	<0.5	0.31	20
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. 9

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 Representative
Station at & Code : A8 - Kanyalwadi village
Duration : 24 Hrs
Issue Date : 04.03.2024
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
09.02.2024	N/24/02/2-0217	11	12	51	29	<20	<1
10.02.2024	N/24/02/3-0029	10	13	48	27	<20	<1
12.02.2024	N/24/02/4-0039	12	15	44	24	<20	<1
13.02.2024	N/24/02/4-0069	11	14	54	28	<20	<1
23.02.2024	N/24/02/5-0150	10	12	46	27	<20	<1
24.02.2024	N/24/02/5-0196	11	12	57	32	<20	<1
26.02.2024	N/24/03/1-0049	12	16	51	29	<20	<1
27.02.2024	N/24/03/1-0099	11	14	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	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
09.02.2024	N/24/02/2-0217	0.19	<0.1	<0.5	<0.5	0.32	22
10.02.2024	N/24/02/3-0029	0.10	<0.1	<0.5	<0.5	0.23	22
12.02.2024	N/24/02/4-0039	0.12	<0.1	<0.5	<0.5	0.25	23
13.02.2024	N/24/02/4-0069	0.14	<0.1	<0.5	<0.5	0.26	25
23.02.2024	N/24/02/5-0150	0.19	<0.1	<0.5	<0.5	0.22	27
24.02.2024	N/24/02/5-0196	0.11	<0.1	<0.5	<0.5	0.23	28
26.02.2024	N/24/03/1-0049	0.14	<0.1	<0.5	<0.5	0.31	26
27.02.2024	N/24/03/1-0099	0.12	<0.1	<0.5	<0.5	0.25	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.10

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 Representative					
Station at & Code : A9 - Near NIMCO Gate - Tivrewadi, Redi village					
Duration : 24 Hrs					
Issue Date : 04.03.2024					
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)
09.02.2024	N/24/02/2-0218	10	13	46	26
10.02.2024	N/24/02/3-0030	11	14	57	30
12.02.2024	N/24/02/4-0040	9	10	47	26
13.02.2024	N/24/02/4-0070	12	18	54	29
23.02.2024	N/24/02/5-0151	12	16	49	23
24.02.2024	N/24/02/5-0197	10	11	55	29
26.02.2024	N/24/03/1-0050	11	12	50	27
27.02.2024	N/24/03/1-0100	10	14	46	25
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. 11

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 Representative				
Station at & Code	: A10 - Near Primary School - sakalbhatwadi Redi village				
Duration	: 24 Hrs				
Issue Date	: 04.03.2024				
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)
09.02.2024	N/24/02/2-0219	10	16	53	26
10.02.2024	N/24/02/3-0031	7	13	50	27
12.02.2024	N/24/02/4-0041	7	10	42	26
13.02.2024	N/24/02/4-0071	10	15	55	29
23.02.2024	N/24/02/5-0152	8	11	48	28
24.02.2024	N/24/02/5-0198	7	12	45	24
26.02.2024	N/24/03/1-0051	8	11	51	20
27.02.2024	N/24/03/1-0101	12	15	41	19
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. 12

STATISTICAL AIR QUALITY DATA

Name of the : M/s. Gogte Minerals												
Name of the : Redi Iron Ore Mine (203)												
Month : February, 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.	5	10	48	25	8	9	35	21	5	10	39	18
10%	6	11	49	26	9	10	40	23	6	10	41	21
25%	7	12	50	27	9	12	45	24	6	10	44	23
50%	8	13	52	27	11	13	49	27	7	11	46	24
75%	8	14	54	29	11	15	54	29	8	12	49	26
98%	10	16	58	33	13	18	56	32	10	13	51	27
Max.	10	16	58	33	13	18	56	32	10	13	51	27
Avg.	8	13	52	28	10	13	48	27	7	11	46	24
SD	2	2	3	3	2	3	7	4	2	1	4	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.	9	11	40	22	10	12	44	24				
10%	9	11	44	23	10	12	45	25				
25%	9	12	47	26	11	12	48	27				
50%	10	12	50	27	11	14	51	28				
75%	10	13	54	27	11	14	52	29				
98%	11	13	57	31	12	16	57	32				
Max.	11	13	57	32	12	16	57	32				
Avg.	10	12	50	26	11	14	50	28				
SD	1	1	5	3	1	2	4	3				
No. of obs	8				8							

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TEST REPORT

Table No.13
Report No : N005824023

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Venguria taluka, Sindhudurg dist, Maharashtra State.			
Particulars of sample collected	: SW1 - Pit water			
Sample Collected by	: Environmental Laboratory Representative			
Date of sample collection	: 13.02.2024			
Lab Code	: N/24/02/3-0058			
Issue Date	: 26.02.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016			
Sl. No.	Parameters	SW1	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	6.43	6.0-9.0	IS 3025 (P-11) 2022
3	Chemical Oxygen Demand (COD) mg/l	16	250	IS 3025 (P-58) 2006 RA2022
2	Biochemical Oxygen Demand mg/l, BOD ₅ 27° C	<3	30	IS 3025 (P-44) 2014
4	Total Suspended Solids, mg/l	10	100	IS 3025 (P-17) 2022
5	Fixed Dissolved Solids (FDS) mg/l	1968	2100	IS 3025(P-18) 2022
6	Temperature ° C	28.0	Shall not 5°c above the receiving water temp	IS 3025 (P-8) 1984 RA2022
7	Oil & Grease, mg/l	<1	10	IS 3025 (P-39) 2021
8	Ammonical Nitrogen, mg/l	<0.1	50	IS 3025 (P-34) 1988 RA2019
9	Total Kjeldahl Nitrogen, mg/l	6	50	IS 3025 (P-34) 1988 RA2019
10	Nitrate as (NO ₃ ⁻), mg/l	<0.1	10	IS 3025 (P-34) 1988 RA2019
11	Phosphates (as P), mg/l	<0.05	5	IS 3025 (P-31)
12	Chlorides (as Cl), mg/l	720.0	1000	IS 3025 (P-32) 1988 RA2019
13	Sulphates (as SO ₄) mg/l	280	1000	IS 3025 (P-24) Sec 1 2022
14	Fluoride (as F), mg/l	0.36	2	APHA23rd Edition 4500F
15	Sulphide (as S), mg/l	<0.01	2	IS 3025 (P-29) 2022
16	Phenolic Compounds (as C ₆ H ₅ OH), mg/l	<0.001	1	IS 3025 (P-43) Sec 1 2022
17	Total Residual Chlorine, mg/l	<0.1	1	IS 3025 (P-26) 2021
18	Zinc (as Zn), mg/l	<0.005	5	IS 3025 (P-2) 2019
19	Iron (as Fe), mg/l	0.063	3	IS 3025 (P-2) 2019
20	Copper (as Cu), mg/l	<0.005	3	IS 3025 (P-2) 2019
21	Trivalent Chromium (as Cr ⁺³), mg/l	<0.001	2	SOP/C/W-4
22	Manganese (as Mn), mg/l	<0.001	2	IS 3025 (P-2) 2019
23	Nickel (as Ni), mg/l	<0.001	3	IS 3025 (P-2) 2019
24	Arsenic (as As), mg/l	<0.002	0.2	IS 3025 (P-2) 2019
25	Cyanide (as CN), mg/l	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
26	Vanadium (as V), mg/l	<0.001	0.2	IS 3025 (P-2) 2019
27	Lead (as Pb), mg/l	<0.005	0.1	IS 3025 (P-2) 2019
28	Hexavalent Chromium (as Cr ⁺⁶), mg/l	<0.001	2	IS 3025 (P-52) 2014
29	Selenium (as Se), mg/l	<0.005	0.05	IS 3025 (P-2) 2019
30	Cadmium (as Cd), mg/l	<0.001	2	IS 3025 (P-2) 2019
31	Mercury (as Hg), mg/l	<0.0005	0.01	IS 3025 (P-2) 2019

END OF REPORT

(Signature)
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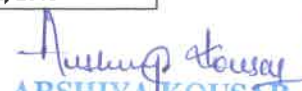
TEST REPORT

Table No : 14

Report No : N000

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	: AD1 - Pit Discharge Water			
Sample Collected by	: Environmental Laboratory Representative			
Date of sample collection	: 13.02.2024			
Lab Code	: N/24/02/3-0058			
Issue Date	: 26.02.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016			
Sl. No.	Parameters	AD1	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	6.67	6.0-9.0	IS 3025 (P-11) 2022
3	Chemical Oxygen Demand (COD) mg/l	24	250	IS 3025 (P-58) 2008 RA2022
2	Biochemical Oxygen Demand mg/l, BOD ₅ 27 ^o C	8.0	30	IS 3025 (P-44) 2014
4	Total Suspended Solids, mg/l	14	100	IS 3025 (P-17) 2022
5	Fixed Dissolved Solids (FDS) mg/l	2050.0	2100	IS 3025(P-18) 2022
6	Temperature ° C	28.0	Shall not 5 ^o c above the receiving water temp	IS 3025 (P-9) 1984 RA2022
7	Oil & Grease, mg/l	<1	10	IS 3025 (P-39) 2021
8	Ammonical Nitrogen, mg/l	<0.1	50	IS 3025 (P-34) 1988 RA2019
9	Total Kjeldahl Nitrogen, mg/l	<0.5	50	IS 3025 (P-34) 1988 RA2019
10	Nitrate as (NO ₃ ⁻), mg/l	6.5	10	IS 3025 (P-34) 1988 RA2019
11	Phosphates (as P), mg/l	<0.05	5	IS 3025 (P-31)
12	Chlorides (as Cl), mg/l	710	1000	IS 3025 (P-32) 1988 RA2019
13	Sulphates (as SO ₄), mg/l	620	1000	IS 3025 (P-24) Sec 1 2022
14	Fluoride (as F), mg/l	0.53	2	APHA23rd Edition 4500F
15	Sulphide (as S), mg/l	<0.01	2	IS 3025 (P-29) 2022
16	Phenolic Compounds (as C ₆ H ₅ OH), mg/l	<0.001	1	IS 3025 (P-43) Sec 1 2022
17	Total Residual Chlorine, mg/l	<0.1	1	IS 3025 (P-26) 2021
18	Zinc (as Zn), mg/l	<0.005	5	IS 3025 (P-2) 2019
19	Iron (as Fe), mg/l	0.088	3	IS 3025 (P-2) 2019
20	Copper (as Cu), mg/l	<0.005	3	IS 3025 (P-2) 2019
21	Trivalent Chromium (as Cr ⁺³), mg/l	<0.001	2	SOP/GW-4
22	Manganese (as Mn), mg/l	<0.001	2	IS 3025 (P-2) 2019
23	Nickel (as Ni), mg/l	<0.001	3	IS 3025 (P-2) 2019
24	Arsenic (as As), mg/l	<0.002	0.2	IS 3025 (P-2) 2019
25	Cyanide (as CN), mg/l	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
26	Vanadium (as V), mg/l	<0.001	0.2	IS 3025 (P-2) 2019
27	Lead (as Pb), mg/l	<0.005	0.1	IS 3025 (P-2) 2019
28	Hexavalent Chromium (as Cr ⁺⁶), mg/l	<0.03	2	IS 3025 (P-52) 2014
29	Selenium (as Se), mg/l	<0.005	0.05	IS 3025 (P-2) 2019
30	Cadmium (as Cd), mg/l	<0.001	2	IS 3025 (P-2) 2019
31	Mercury (as Hg), mg/l	<0.0005	0.01	IS 3025 (P-2) 2019

END OF REPORT


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TEST REPORT

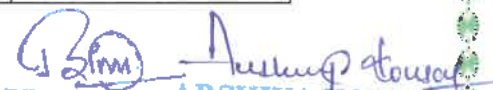
Table No. 15

Report No : N006024023

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
Sample Collected by	: Environmental Laboratory Representative
Date of sample collection	: 13.02.2024
Lab Code	: N/24/02/3-0060
Issue Date	: 26.02.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Sl. No.	Parameters	Results	Limits For Stream Water Standards	Method of Testing
1	Colour (Hazen Units), Max	5	300	IS:3025(Part-4)2021
2	pH	7.02	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.4	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<1.0	0.1	IS:3025(Part-36) 2021
5	Total Dissolved Solids (mg/l), Max	1370	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	11.5	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	1.5	IS:3025(Part-42) 2019
9	Chloride (as Cl),mg/l, Max	480	600	IS:3025(Part-32) ,1988RA2019
10	Fluoride (as F),mg/l, Max	0.72	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates (as SO ₄), mg/l, Max	180	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	0.05	IS:3025(P-27) Sec 12021
18	Lead (as Pb) mg/l, Max	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml, Max	76	5000	IS:1622:1981

"END OF REPORT"


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TEST REPORT

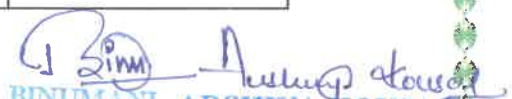
Table No. 16

Report No : N006124023

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	: SW3 - Nallah water Near Kanyalwadi
Sample Collected by	: Environmental Laboratory Representative
Date of sample collection	: 13.02.2024
Lab Code	: N/24/02/3-0061
Issue Date	: 26.02.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Sl. No.	Parameters	Results	Limits For Stream Water Standards	Method of Testing
1	Colour (Hazen Units), Max	5	300	IS:3025(Part-4)2021
2	pH	7.25	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.2	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<0.1	0.1	IS:3025(Part-39) 2021
5	Total Dissolved Solids (mg/l), Max	1210.0	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	9.5	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	1.0	IS:3025(Part-88)
8	Copper (as Cu),mg/l, Max	<0.005	1.5	IS:3025(Part-42) 2019
9	Chloride (as Cl),mg/l, Max	540.0	600	IS:3025(Part-32);1988RA2019
10	Fluoride (as F),mg/l, Max	0.6	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates (as SO ₄), mg/l, Max	120	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	0.05	IS:3025(P-27) Sec 12021
18	Lead (as Pb) mg/l, Max	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ¹⁶), mg/l, Max	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml, Max	80	5000	IS:1622:1981

"END OF REPORT"


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ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 & recognition is valid upto 23.05.2025

TEST REPORT

Table No. 17

Report No : N006224023

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	: SW4- Near Hanuman temple Kanyalwadi village
Sample Collected by	: Environmental Laboratory Representative
Date of sample collection	: 13.02.2024
Lab Code	: N/24/02/3-0062
Issue Date	: 26.02.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Sl. No.	Parameters	Results	Limits For Stream Water Standards	Method of Testing
1	Colour (Hazen Units), Max	5	300	IS:3025(Part-4)2021
2	pH	6.61	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.0	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<0.1	0.1	IS:3025(Part-39) 2021
5	Total Dissolved Solids (mg/l), Max	1340.0	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	4.6	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	1.5	IS:3025(Part-42) 2019
9	Chloride (as Cl),mg/l, Max	460.00	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	<0.1	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates (as SO ₄),mg/l, Max	160	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	0.05	IS:3025(P-27) Sec 12021
18	Lead (as Pb) mg/l, Max	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml, Max	60	5000	IS:1622:1981

"END OF REPORT"


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TEST REPORT

Table No. 18

Name of the Client	: M/s. Gogte Minerals (P) Ltd.,
Name of the Project	: Redi (203) Iron Ore Mine
Particulars of sample	: Soil Samples
Sample Collected by	: Environmental Laboratory Representative
Date of sample collection	: 09.02.2024
Issue Date	: 04.03.2024

Sl. No.	Lab Code		N/24/02/2-0228	N/24/02/2-0229	N/24/02/2-0230	N/24/02/2-0231	N/24/02/2-0232	N/24/02/2-0233
	Sample Code		S1	S2	S3	S4	S5	S6
PARAMETERS		Unit	Results					

PHYSICAL PROPERTIES

1	Colour	--	Red soil	Red soil	Red soil	Red soil	Red soil	Red soil
2	Textural class	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
3	Size Distribution							
	Sand	%	64.8	68.21	70.24	72.3	70.66	64.42
	Clay	%	20.54	12.57	18.22	12.74	18.68	16.76
	Silt	%	16.4	18.12	15.64	16.8	14.46	14.22
4	Moisture Content	%	5.96	5.48	5.94	6.72	5.14	5.28
5	Bulk Density	gm/cc	1.68	1.8	1.78	1.56	1.72	1.82
6	Water holding capacity	%	32.8	28.3	26.82	20.24	22.23	24.15
7	pH	--	6.98	7.14	7.1	7.2	6.98	7.04
8	EC	m.mohs/cm	0.386	0.498	0.445	0.500	0.590	0.560

Chemical Properties

9	Organic Carbon	%	0.71	0.68	0.80	0.82	0.89	0.76
10	Nitrogen as N	Kg/Ha	258	280	268	258	280	282
11	Phosphorous as P	Kg/Ha	12.5	10.84	13.92	16.44	16.12	16.25
12	Potassium as K ₂ O	Kg/Ha	142	156	160	162	162	178
13	Sodium as Na	mg/kg	20	24	26	26	24	22
14	Chloride as Cl	mg/kg	18	22	22	20	28	24
15	Sulphate as SO ₄	mg/kg	12	8	12	8	6	8

Sample Locations :

- S1- Top Soil
- S2- Old dump soil.
- S3- Redi village agricultural soil
- S4 - Shiroda village agricultural soil soil
- S5 - Kanyalwadi village agricultural soil
- S6 - Gaontala village agricultural soil

M. SACHIN RAJU
T.M. - Chemical

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