

ENVIRONMENTAL MONITORING REPORT

March, 2024

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

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

CONSULTANT

MINERAL ENGINEERING SERVICES
(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	: Redi Iron Ore Mine (203)					
Sample Collected by	: Environmental Laboratory					
Station at & Code	: AI - Dumping site (North Eastern side of Mining Lease)					
Duration	: 24 Hrs					
Issue Date	: 03.04.2024					
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
08.03.2024	N/24/03/3-0154	12	16	456	129	0.24
09.03.2024	N/24/03/3-0192	11	17	442	136	0.11
11.03.2024	N/24/03/4-0059	12	15	389	148	0.16
12.03.2024	N/24/03/4-0100	9	12	457	125	0.11
20.03.2024	N/24/03/5-0098	10	14	426	133	0.12
21.03.2024	N/24/03/5-0175	12	16	368	124	0.14
27.03.2024	N/24/03/5-0423	10	14	398	136	0.33
28.03.2024	N/24/03/5-0470	11	12	251	113	0.3
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. 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 : 03.04.2024						
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
08.03.2024	N/24/03/3-0155	9	11	285	145	0.41
09.03.2024	N/24/03/3-0193	10	15	458	127	0.33
11.03.2024	N/24/03/4-0080	13	18	368	122	0.2
12.03.2024	N/24/03/4-0101	12	14	385	132	0.38
20.03.2024	N/24/03/5-0099	10	13	335	138	0.22
21.03.2024	N/24/03/5-0176	11	16	412	145	0.27
27.03.2024	N/24/03/5-0424	9	11	354	129	0.37
28.03.2024	N/24/03/5-0471	12	16	336	115	0.4
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	: 03.04.2024					
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
08.03.2024	N/24/03/3-0156	11	15	358	122	0.42
09.03.2024	N/24/03/3-0194	10	12	412	140	0.38
11.03.2024	N/24/03/4-0061	11	17	356	135	0.44
12.03.2024	N/24/03/4-0102	9	11	388	155	0.28
20.03.2024	N/24/03/5-0100	10	12	345	175	0.26
21.03.2024	N/24/03/5-0177	14	18	325	145	0.31
27.03.2024	N/24/03/5-0425	12	14	362	151	0.25
28.03.2024	N/24/03/5-0472	11	15	412	138	0.27
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. 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	: 03.04.2024					
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
08.03.2024	N/24/03/3-0153	13	18	265	122	0.36
09.03.2024	N/24/03/3-0191	11	14	318	115	0.28
11.03.2024	N/24/03/4-0058	12	15	412	135	0.41
12.03.2024	N/24/03/4-0099	9	12	356	140	0.24
20.03.2024	N/24/03/5-0097	12	18	365	152	0.35
21.03.2024	N/24/03/5-0174	9	11	354	130	0.31
27.03.2024	N/24/03/5-0422	12	16	428	122	0.22
28.03.2024	N/24/03/5-0469	13	18	387	138	0.27
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 : 03.04.2024
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
08.03.2024	N/24/03/3-0146	11	18	57	33	<20	<1
09.03.2024	N/24/03/3-0184	12	15	54	29	<20	<1
11.03.2024	N/24/03/4-0051	9	13	48	25	<20	<1
12.03.2024	N/24/03/4-0092	10	16	45	27	<20	<1
20.03.2024	N/24/03/5-0090	12	18	50	32	<20	<1
21.03.2024	N/24/03/5-0167	9	11	53	27	<20	<1
27.03.2024	N/24/03/5-0415	13	16	46	25	<20	<1
28.03.2024	N/24/03/5-0462	10	13	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
08.03.2024	N/24/03/3-0146	0.16	<0.1	<0.5	<0.5	0.32	25
09.03.2024	N/24/03/3-0184	0.19	<0.1	<0.5	<0.5	<0.2	24
11.03.2024	N/24/03/4-0051	0.25	<0.1	<0.5	<0.5	<0.2	26
12.03.2024	N/24/03/4-0092	<0.1	<0.1	<0.5	<0.5	<0.2	27
20.03.2024	N/24/03/5-0090	0.14	<0.1	<0.5	<0.5	<0.2	20
21.03.2024	N/24/03/5-0167	0.16	<0.1	<0.5	<0.5	0.21	25
27.03.2024	N/24/03/5-0415	<0.1	<0.1	<0.5	<0.5	0.24	26
28.03.2024	N/24/03/5-0462	0.25	<0.1	<0.5	<0.5	0.22	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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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	: 03.04.2024
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
08.03.2024	N/24/03/3-0147	11	15	55	30	<20	<1
09.03.2024	N/24/03/3-0185	10	13	47	27	<20	<1
11.03.2024	N/24/03/4-0052	11	15	44	26	<20	<1
12.03.2024	N/24/03/4-0093	12	18	40	24	<20	<1
20.03.2024	N/24/03/5-0091	10	13	48	27	<20	<1
21.03.2024	N/24/03/5-0168	9	12	53	28	<20	<1
27.03.2024	N/24/03/5-0416	10	14	50	29	<20	<1
28.03.2024	N/24/03/5-0463	12	16	44	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
08.03.2024	N/24/03/3-0147	0.19	<0.1	<0.5	<0.5	<0.2	22
09.03.2024	N/24/03/3-0185	<0.1	<0.1	<0.5	<0.5	0.22	24
11.03.2024	N/24/03/4-0052	0.23	<0.1	<0.5	<0.5	<0.2	22
12.03.2024	N/24/03/4-0093	0.23	<0.1	<0.5	<0.5	<0.2	28
20.03.2024	N/24/03/5-0091	<0.1	<0.1	<0.5	<0.5	<0.2	22
21.03.2024	N/24/03/5-0168	0.15	<0.1	<0.5	<0.5	<0.2	20
27.03.2024	N/24/03/5-0416	0.15	<0.1	<0.5	<0.5	0.30	26
28.03.2024	N/24/03/5-0463	0.35	<0.1	<0.5	<0.5	0.10	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. 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 : 03.04.2024
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
08.03.2024	N/24/03/3-0148	11	13	51	28	<20	<1
09.03.2024	N/24/03/3-0186	9	12	40	22	<20	<1
11.03.2024	N/24/03/4-0053	11	17	45	24	<20	<1
12.03.2024	N/24/03/4-0094	9	13	37	21	<20	<1
20.03.2024	N/24/03/5-0092	10	12	49	26	<20	<1
21.03.2024	N/24/03/5-0169	11	13	43	24	<20	<1
27.03.2024	N/24/03/5-0417	12	14	46	28	<20	<1
28.03.2024	N/24/03/5-0464	11	15	50	29	<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
08.03.2024	N/24/03/3-0148	0.35	<0.1	<0.5	<0.5	<0.2	27
09.03.2024	N/24/03/3-0186	<0.1	<0.1	<0.5	<0.5	<0.2	20
11.03.2024	N/24/03/4-0053	0.28	<0.1	<0.5	<0.5	<0.2	28
12.03.2024	N/24/03/4-0094	0.27	<0.1	<0.5	<0.5	<0.2	23
20.03.2024	N/24/03/5-0092	0.21	<0.1	<0.5	<0.5	<0.2	24
21.03.2024	N/24/03/5-0169	0.25	<0.1	<0.5	<0.5	<0.2	28
27.03.2024	N/24/03/5-0417	0.33	<0.1	<0.5	<0.5	<0.2	21
28.03.2024	N/24/03/5-0464	0.19	<0.1	<0.5	<0.5	0.11	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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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 Representative
Station at & Code : A7 - Gaontala village
Duration : 24 Hrs
Issue Date : 03.04.2024
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
08.03.2024	N/24/03/3-0149	10	11	50	26	<20	<1
09.03.2024	N/24/03/3-0187	12	16	53	29	<20	<1
11.03.2024	N/24/03/4-0054	11	15	54	30	<20	<1
12.03.2024	N/24/03/4-0095	12	18	48	26	<20	<1
20.03.2024	N/24/03/5-0093	11	13	50	24	<20	<1
21.03.2024	N/24/03/5-0170	9	11	40	26	<20	<1
27.03.2024	N/24/03/5-0418	12	15	53	28	<20	<1
28.03.2024	N/24/03/5-0465	11	13	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
08.03.2024	N/24/03/3-0149	0.14	<0.1	<0.5	<0.5	0.24	20
09.03.2024	N/24/03/3-0187	<0.1	<0.1	<0.5	<0.5	<0.2	25
11.03.2024	N/24/03/4-0054	<0.1	<0.1	<0.5	<0.5	<0.2	21
12.03.2024	N/24/03/4-0095	<0.1	<0.1	<0.5	<0.5	<0.2	25
20.03.2024	N/24/03/5-0093	0.15	<0.1	<0.5	<0.5	<0.2	20
21.03.2024	N/24/03/5-0170	0.10	<0.1	<0.5	<0.5	<0.2	22
27.03.2024	N/24/03/5-0418	0.08	<0.1	<0.5	<0.5	0.33	25
28.03.2024	N/24/03/5-0465	0.17	<0.1	<0.5	<0.5	0.30	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 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	: 03.04.2024
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
08.03.2024	N/24/03/3-0150	10	11	46	24	<20	<1
09.03.2024	N/24/03/3-0188	9	11	50	28	<20	<1
11.03.2024	N/24/03/4-0055	12	18	47	23	<20	<1
12.03.2024	N/24/03/4-0096	11	13	55	30	<20	<1
20.03.2024	N/24/03/5-0094	10	11	57	33	<20	<1
21.03.2024	N/24/03/5-0171	12	15	53	27	<20	<1
27.03.2024	N/24/03/5-0419	13	18	45	25	<20	<1
28.03.2024	N/24/03/5-0466	11	16	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
08.03.2024	N/24/03/3-0150	<0.1	<0.1	<0.5	<0.5	<0.2	26
09.03.2024	N/24/03/3-0188	0.26	<0.1	<0.5	<0.5	0.23	26
11.03.2024	N/24/03/4-0055	<0.1	<0.1	<0.5	<0.5	<0.2	26
12.03.2024	N/24/03/4-0096	<0.1	<0.1	<0.5	<0.5	0.22	22
20.03.2024	N/24/03/5-0094	<0.1	<0.1	<0.5	<0.5	<0.2	22
21.03.2024	N/24/03/5-0171	0.15	<0.1	<0.5	<0.5	<0.2	26
27.03.2024	N/24/03/5-0419	0.36	<0.1	<0.5	<0.5	<0.2	27
28.03.2024	N/24/03/5-0466	0.33	<0.1	<0.5	<0.5	0.20	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.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 : 03.04.2024					
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)
08.03.2024	N/24/03/3-0151	11	14	63	34
09.03.2024	N/24/03/3-0189	13	16	51	28
11.03.2024	N/24/03/4-0056	10	12	55	29
12.03.2024	N/24/03/4-0097	9	14	50	28
20.03.2024	N/24/03/5-0095	11	15	54	27
21.03.2024	N/24/03/5-0172	14	20	40	26
27.03.2024	N/24/03/5-0420	12	18	58	27
28.03.2024	N/24/03/5-0467	11	12	53	26
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 - sakalbhawadi Redi village					
Duration : 24 Hrs					
Issue Date : 03.04.2024					
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)
08.03.2024	N/24/03/3-0152	9	11	47	25
09.03.2024	N/24/03/3-0190	10	13	56	29
11.03.2024	N/24/03/4-0057	13	15	44	26
12.03.2024	N/24/03/4-0098	11	13	53	27
20.03.2024	N/24/03/5-0096	9	11	50	24
21.03.2024	N/24/03/5-0173	7	11	57	29
27.03.2024	N/24/03/5-0421	10	14	49	25
28.03.2024	N/24/03/5-0468	12	17	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. 12

STATISTICAL AIR QUALITY DATA

Name of the : M/s. Gogte Minerals													
Name of the : Redi Iron Ore Mine (203)													
Month : March, 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	11	45	25	9	12	40	24	9	12	37	21	
10%	9	12	46	25	10	13	43	25	9	12	39	22	
25%	10	13	48	27	10	13	44	26	10	13	42	24	
50%	11	16	52	27	11	15	48	27	11	13	46	25	
75%	12	17	53	30	11	15	51	28	11	14	49	28	
98%	13	18	57	33	12	18	55	30	12	17	51	29	
Max.	13	18	57	33	12	18	55	30	12	17	51	29	
Avg.	11	15	51	28	11	15	48	27	11	14	45	25	
SD	1	3	4	3	1	2	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.	9	11	37	21	9	11	45	23					
10%	10	11	39	23	10	11	46	24					
25%	11	13	46	26	10	11	47	25					
50%	11	14	50	26	11	14	50	28					
75%	12	15	53	28	12	17	54	29					
98%	12	18	54	30	13	18	57	33					
Max.	12	18	54	30	13	18	57	33					
Avg.	11	14	48	26	11	14	50	27					
SD	1	2	6	3	1	3	4	3					
No. of obs	8				8								

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TEST REPORT

Table No.13
Report No : N025224034

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	: SW1 - Pit water			
Sample Collected by	: Environmental Laboratory Representative			
Date of sample collection	: 19.03.2024			
Lab Code	: N/24/03/4-0252			
Issue Date	: 28.03.2024			
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	6.38	6.0-9.0	IS 3025 (P-11) 2022
3	Chemical Oxygen Demand (COD) mg/l	24	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	16	100	IS 3025 (P-17) 2022
5	Fixed Dissolved Solids (FDS) mg/l	2024	2100	IS 3025(P-18) 2022
6	Temperature ° C	28.0	Shall not 5°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	5	50	IS 3025 (P-34) 1988 RA2019
10	Nitrate as (NO ₃ ⁻), mg/l	1.6	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	600.0	1000	IS 3025 (P-32) 1988 RA2019
13	Sulphates (as SO ₄), mg/l	310	1000	IS 3025 (P-24) Sec 1 2022
14	Fluoride (as F), mg/l	0.32	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

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TEST REPORT

Table No.14
Report No :N025324034

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	: AD1 - Pit Discharge Water			
Sample Collected by	: Environmental Laboratory Representative			
Date of sample collection	: 19.03.2024			
Lab Code	: N/24/03/4-0253			
Issue Date	: 28.03.2024			
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	6.58	6.0-9.0	IS 3025 (P-11) 2022
3	Chemical Oxygen Demand (COD) mg/l	30	250	IS 3025 (P-58) 2006 RA2022
2	Biochemical Oxygen Demand mg/l, BOD ₅ 27° C	6.0	30	IS 3025 (P-44) 2014
4	Total Suspended Solids, mg/l	26	100	IS 3025 (P-17) 2022
5	Fixed Dissolved Solids (FDS) mg/l	2080.0	2100	IS 3025(P-18) 2022
6	Temperature ° C	28.0	Shall not 5°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	5.8	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	660	1000	IS 3025 (P-32) 1988 RA2019
13	Sulphates (as SO ₄) mg/l	560	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	0.102	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	<0.03	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 : N025424034

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurta taluka, Sindhudurg dist, MH State.
Particulars of sample collected	: SW2 - Kanyal tank water
Sample Collected by	: Environmental Laboratory Representative
Date of sample collection	: 19.03.2024
Lab Code	: N/24/03/4-0254
Issue Date	: 28.03.2024
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	6.86	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.5	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<1.0	0.1	IS:3025(Part-39) 2021
5	Total Dissolved Solids (mg/l), Max	1200	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-56)
8	Copper (as Cu),mg/l, Max	<0.005	1.5	IS:3025(Part-42) 2019
9	Chloride (as Cl),mg/l, Max	390	600	IS:3025(Part-32) ,1988RA2019
10	Fluoride (as F),mg/l, Max	0.66	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	220	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	82	5000	IS.1522:1981

"END OF REPORT"


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TEST REPORT


Table No. 16

Report No : N0025524034

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	: 19.03.2024
Lab Code	: N/24/03/4-0255
Issue Date	: 28.03.2024
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	7.10	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5	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	11.6	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	420.0	600	IS:3025(Part-32) ,1989RA2019
10	Fluoride (as F),mg/l, Max	0.68	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	200	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	78	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 : N0025624034

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Venguria taluka, Sindhudurg dist, MH State.
Particulars of sample collected	: SW4- Near Hanuman temple Kanyalwadi village
Sample Collected by	: Environmental Laboratory
Date of sample collection	: 19.03.2024
Lab Code	: N/24/03/4-0256
Issue Date	: 28.03.2024
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	6.74	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.1	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	1410.0	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	10.6	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	450.00	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	230	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 1 2021
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	70	5000	IS:1622:1981

"END OF REPORT"

(Signature)
ARSHIVA KOUSAL
T.E. Chemical

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