

# ENVIRONMENTAL MONITORING REPORT

September, 2023

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, 2<sup>nd</sup> Cross, Kammanahalli Main  
Road, St Thomas Town Post, Bangalore-  
560 084, Karnataka.

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## TEST REPORT

Table No. 1

### Fugitive Emission

Project		: Redi Iron Ore Mine (203)				
Client		: M/s. Gogte Minerals				
Station at & Code		: AI - Dumping site (North Eastern side of Mining Lease)				
Duration		: 24 Hrs				
Date of Report		: 05.10.2023				
Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	SPM (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	Carbon Monoxide* (CO), mg/m <sup>3</sup>
08.09.2023	N/23/09/2-0173	9	10	94	75	0.32
09.09.2023	N/23/09/3-0052	8	9	124	63	0.32
11.09.2023	N/23/09/4-0051	7	11	86	57	0.35
12.09.2023	N/23/09/4-0099	7	11	93	54	0.33
20.09.2023	N/23/09/5-0056	10	9	132	85	0.32
21.09.2023	N/23/09/5-0108	12	10	124	95	0.24
27.09.2023	N/23/10/1-0112	8	13	145	130	0.24
28.09.2023	N/23/10/1-0153	5	12	165	124	0.34
Within in Mining Area Pollutant		SO <sub>2</sub>	NO <sub>2</sub>	SPM (PM)	RPM (PM <sub>10</sub> )	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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Dy. T.M. Chemical  
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# ENVIRONMENTAL LABORATORY

**MTIE**  
INTERLAB  
ISO 45001:2018

(UNIT OF MINERAL ENGINEERING SERVICES)

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## TEST REPORT

Table No. 2

### Fugitive Emission

Project	: Redi Iron Ore Mine (203)					
Client	: M/s. Gogte Minerals					
Station at & Code	: A2 - Haulage/Transport road					
Duration	: 24 Hrs					
Date of Report	: 05.10.2023					
Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	SPM (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	Carbon Monoxide* (CO), mg/m <sup>3</sup>
08.09.2023	N/23/09/2-0174	11	10	112	80	<0.2
09.09.2023	N/23/09/3-0053	10	10	93	65	<0.2
11.09.2023	N/23/09/4-0052	12	9	97	71	<0.2
12.09.2023	N/23/09/4-0100	7	12	86	63	<0.2
20.09.2023	N/23/09/5-0057	9	11	124	99	0.2
21.09.2023	N/23/09/5-0109	10	13	135	115	0.25
27.09.2023	N/23/10/1-0113	12	13	185	142	0.34
28.09.2023	N/23/10/1-0154	11	11	166	115	0.24
Within in Mining Area Pollutant		SO <sub>2</sub>	NO <sub>2</sub>	SPM (PM)	RPM (PM <sub>10</sub> )	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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MTIE  
INTEGRATED  
ISO 45001:2018

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## TEST REPORT

Table No. 3

### Fugitive Emission

Project	: Redi Iron Ore Mine (203)					
Client	: M/s. Gogte Minerals					
Station at & Code	: A3 - Near Mine Pit Edge					
Duration	: 24 Hrs					
Date of Report	: 05.10.2023					
Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	SPM (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	Carbon Monoxide* (CO), mg/m <sup>3</sup>
08.09.2023	N/23/09/2-0175	8	10	96	64	<0.2
09.09.2023	N/23/09/3-0054	6	9	87	58	0.24
11.09.2023	N/23/09/4-0053	7	12	105	74	0.31
12.09.2023	N/23/09/4-0101	11	12	91	66	0.32
20.09.2023	N/23/09/5-0058	13	9	88	52	<0.2
21.09.2023	N/23/09/5-0110	10	10	83	50	<0.2
27.09.2023	N/23/10/1-0114	7	9	132	91	<0.2
28.09.2023	N/23/10/1-0155	9	13	145	121	<0.2
Within in Mining Area Pollutant		SO <sub>2</sub>	NO <sub>2</sub>	SPM (PM)	RPM (PM <sub>10</sub> )	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

Project	: Redi Iron Ore Mine (203)					
Client	: M/s. Gogte Minerals					
Station at & Code	: A - 11, Proposed Dump Area					
Duration	: 24 Hrs					
Date of Report	: 05.10.2023					
Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	SPM (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	Carbon Monoxide* (CO), mg/m <sup>3</sup>
08.09.2023	N/23/09/2-0172	6	12	88	55	<0.2
09.09.2023	N/23/09/3-0051	9	9	96	65	<0.2
11.09.2023	N/23/09/4-0050	7	11	121	80	<0.2
12.09.2023	N/23/09/4-0098	11	13	96	75	<0.2
20.09.2023	N/23/09/5-0055	8	10	124	60	0.25
21.09.2023	N/23/09/5-0107	10	11	85	58	0.30
27.09.2023	N/23/10/1-0111	12	12	135	114	0.25
28.09.2023	N/23/10/1-0152	6	13	115	94	0.22
Within in Mining Area Pollutant		SO <sub>2</sub>	NO <sub>2</sub>	SPM (PM)	RPM (PM <sub>10</sub> )	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

Project : Redi Iron Ore Mine (203)  
Client : M/s. Gogte Minerals  
Station at & Code : A - 4, Core Zone (Near Mine Office and Screening Plant)  
Duration : 24 Hrs  
Date of Report : 05.10.2023  
Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0166	7	11	31	15	<20	<1
09.09.2023	N/23/09/3-0044	5	10	38	19	<20	<1
11.09.2023	N/23/09/4-0043	4	9	44	20	<20	<1
12.09.2023	N/23/09/4-0091	9	13	45	21	<20	<1
20.09.2023	N/23/09/5-0048	8	11	51	29	<20	<1
21.09.2023	N/23/09/5-0100	8	12	47	26	<20	<1
27.09.2023	N/23/10/1-0104	6	12	41	21	<20	<1
28.09.2023	N/23/10/1-0145	7	10	50	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 <sup>3</sup>	Nickel (Ni), ng/m <sup>3</sup>	Arsenic (As), ng/m <sup>3</sup>	Benzo(a) Pyrene (BaP), ng/m <sup>3</sup>	Carbon Monoxide* (CO), mg/m <sup>3</sup>	Ozone* (O <sub>3</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0166	0.15	<0.1	<0.5	<0.5	<0.2	28
09.09.2023	N/23/09/3-0044	<0.1	<0.1	<0.5	<0.5	<0.2	27
11.09.2023	N/23/09/4-0043	0.10	<0.1	<0.5	<0.5	<0.2	25
12.09.2023	N/23/09/4-0091	0.14	<0.1	<0.5	<0.5	0.34	21
20.09.2023	N/23/09/5-0048	0.11	<0.1	<0.5	<0.5	0.33	25
21.09.2023	N/23/09/5-0100	0.15	<0.1	<0.5	<0.5	0.21	26
27.09.2023	N/23/10/1-0104	0.13	<0.1	<0.5	<0.5	<0.2	23
28.09.2023	N/23/10/1-0145	0.10	<0.1	<0.5	<0.5	0.34	27
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

Project : Redi Iron Ore Mine (203)  
Client : M/s. Gogte Minerals  
Station at & Code : A - 5, Redi village  
Duration : 24 Hrs  
Date of Report : 05.10.2023  
Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0167	4	9	36	24	<20	<1
09.09.2023	N/23/09/3-0045	5	13	47	25	<20	<1
11.09.2023	N/23/09/4-0044	9	10	43	21	<20	<1
12.09.2023	N/23/09/4-0092	10	9	40	20	<20	<1
20.09.2023	N/23/09/5-0049	12	11	49	26	<20	<1
21.09.2023	N/23/09/5-0101	9	12	38	17	<20	<1
27.09.2023	N/23/10/1-0105	12	11	40	23	<20	<1
28.09.2023	N/23/10/1-0146	5	13	34	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 <sup>3</sup>	Nickel (Ni), ng/m <sup>3</sup>	Arsenic (As), ng/m <sup>3</sup>	Benzo(a) Pyrene (BaP), ng/m <sup>3</sup>	Carbon Monoxide* (CO), mg/m <sup>3</sup>	Ozone* (O <sub>3</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0167	0.14	<0.1	<0.5	<0.5	<0.2	28
09.09.2023	N/23/09/3-0045	0.13	<0.1	<0.5	<0.5	0.25	23
11.09.2023	N/23/09/4-0044	<0.1	<0.1	<0.5	<0.5	0.36	20
12.09.2023	N/23/09/4-0092	0.10	<0.1	<0.5	<0.5	<0.2	24
20.09.2023	N/23/09/5-0049	0.12	<0.1	<0.5	<0.5	<0.2	20
21.09.2023	N/23/09/5-0101	<0.1	<0.1	<0.5	<0.5	0.26	22
27.09.2023	N/23/10/1-0105	0.17	<0.1	<0.5	<0.5	0.24	24
28.09.2023	N/23/10/1-0146	0.15	<0.1	<0.5	<0.5	0.21	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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## TEST REPORT

Table No. 7

### AMBIENT AIR QUALITY

Project : Redi Iron Ore Mine (203)  
Client : M/s. Gogte Minerals  
Station at & Code : A - 6, Shiroda village  
Duration : 24 Hrs  
Date of Report : 05.10.2023  
Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>
08.09.2024	N/23/09/2-0180	9	11	39	19	<20	<1
09.09.2023	N/23/09/3-0046	4	10	30	20	<20	<1
11.09.2023	N/23/09/4-0045	11	11	42	24	<20	<1
12.09.2023	N/23/09/4-0093	10	9	44	22	<20	<1
20.09.2023	N/23/09/5-0050	8	9	51	24	<20	<1
21.09.2023	N/23/09/5-0102	4	13	53	27	<20	<1
27.09.2023	N/23/10/1-0106	5	11	42	22	<20	<1
28.09.2023	N/23/10/1-0147	12	13	51	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 <sup>3</sup>	Nickel (Ni), ng/m <sup>3</sup>	Arsenic (As), ng/m <sup>3</sup>	Benzo(a) Pyrene (BaP), ng/m <sup>3</sup>	Carbon Monoxide* (CO), mg/m <sup>3</sup>	Ozone* (O <sub>3</sub> ), µg/m <sup>3</sup>
08.09.2024	N/23/09/2-0180	0.12	<0.1	<0.5	<0.5	0.23	25
09.09.2023	N/23/09/3-0046	<0.1	<0.1	<0.5	<0.5	0.22	25
11.09.2023	N/23/09/4-0045	0.14	<0.1	<0.5	<0.5	<0.2	20
12.09.2023	N/23/09/4-0093	<0.1	<0.1	<0.5	<0.5	<0.2	25
20.09.2023	N/23/09/5-0050	0.14	<0.1	<0.5	<0.5	<0.2	24
21.09.2023	N/23/09/5-0102	0.10	<0.1	<0.5	<0.5	0.22	24
27.09.2023	N/23/10/1-0106	0.15	<0.1	<0.5	<0.5	0.18	26
28.09.2023	N/23/10/1-0147	0.13	<0.1	<0.5	<0.5	0.27	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. 8

### AMBIENT AIR QUALITY

Project : Redi Iron Ore Mine (203)  
Client : M/s. Gogte Minerals  
Station at & Code : A - 7, Gaontala village  
Duration : 24 Hrs  
Date of Report : 05.10.2023  
Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0169	4	9	48	23	<20	<1
09.09.2023	N/23/09/3-0047	8	11	40	23	<20	<1
11.09.2023	N/23/09/4-0046	11	13	36	17	<20	<1
12.09.2023	N/23/09/4-0094	7	11	44	21	<20	<1
20.09.2023	N/23/09/5-0051	10	12	41	25	<20	<1
21.09.2023	N/23/09/5-0103	8	10	32	16	<20	<1
27.09.2023	N/23/10/1-0107	10	13	39	20	<20	<1
28.09.2023	N/23/10/1-0148	9	9	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 <sup>3</sup>	Nickel (Ni), ng/m <sup>3</sup>	Arsenic (As), ng/m <sup>3</sup>	Benzo(a) Pyrene (BaP), ng/m <sup>3</sup>	Carbon Monoxide* (CO), mg/m <sup>3</sup>	Ozone* (O <sub>3</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0169	0.12	<0.1	<0.5	<0.5	0.24	21
09.09.2023	N/23/09/3-0047	0.11	<0.1	<0.5	<0.5	<0.2	20
11.09.2023	N/23/09/4-0046	<0.1	<0.1	<0.5	<0.5	<0.2	24
12.09.2023	N/23/09/4-0094	0.14	<0.1	<0.5	<0.5	0.25	25
20.09.2023	N/23/09/5-0051	0.13	<0.1	<0.5	<0.5	0.22	23
21.09.2023	N/23/09/5-0103	0.15	<0.1	<0.5	<0.5	<0.2	21
27.09.2023	N/23/10/1-0107	0.09	<0.1	<0.5	<0.5	0.23	26
28.09.2023	N/23/10/1-0148	0.11	<0.1	<0.5	<0.5	0.21	27
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

Project : Redi Iron Ore Mine (203)  
Client : M/s. Gogte Minerals  
Station at & Code : A - 8, Kanyalwadi village  
Duration : 24 Hrs  
Date of Report : 05.10.2023  
Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0170	7	10	38	25	<20	<1
09.09.2023	N/23/09/3-0048	9	9	44	20	<20	<1
11.09.2023	N/23/09/4-0047	11	13	45	23	<20	<1
12.09.2023	N/23/09/4-0095	10	11	41	21	<20	<1
20.09.2023	N/23/09/5-0052	11	12	38	18	<20	<1
21.09.2023	N/23/09/5-0104	10	12	41	20	<20	<1
27.09.2023	N/23/10/1-0108	9	10	30	16	<20	<1
28.09.2023	N/23/10/1-0149	7	9	36	19	<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 <sup>3</sup>	Nickel (Ni), ng/m <sup>3</sup>	Arsenic (As), ng/m <sup>3</sup>	Benzo(a) Pyrene (BaP), ng/m <sup>3</sup>	Carbon Monoxide* (CO), mg/m <sup>3</sup>	Ozone* (O <sub>3</sub> ), µg/m <sup>3</sup>
08.09.2023	N/23/09/2-0170	0.09	<0.1	<0.5	<0.5	<0.2	27
09.09.2023	N/23/09/3-0048	0.10	<0.1	<0.5	<0.5	<0.2	25
11.09.2023	N/23/09/4-0047	0.14	<0.1	<0.5	<0.5	0.34	21
12.09.2023	N/23/09/4-0095	0.11	<0.1	<0.5	<0.5	0.33	25
20.09.2023	N/23/09/5-0052	0.15	<0.1	<0.5	<0.5	0.21	26
21.09.2023	N/23/09/5-0104	0.13	<0.1	<0.5	<0.5	<0.2	23
27.09.2023	N/23/10/1-0108	0.10	<0.1	<0.5	<0.5	0.34	27
28.09.2023	N/23/10/1-0149	0.14	<0.1	<0.5	<0.5	0.11	28
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

Project : Redi Iron Ore Mine (203)					
Client : M/s. Gogte Minerals					
Station at & Code : A9 - Near NIMCO Gate - Tivrewadi, Redi village					
Duration : 24 Hrs					
Date of Report : 05.10.2023					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )
08.09.2023	N/23/09/2-0168	12	11	33	22
09.09.2023	N/23/09/3-0049	9	10	43	21
11.09.2023	N/23/09/4-0048	10	9	51	26
12.09.2023	N/23/09/4-0096	12	11	39	26
20.09.2023	N/23/09/5-0053	9	12	48	27
21.09.2023	N/23/09/5-0105	12	11	36	26
27.09.2023	N/23/10/1-0109	5	13	34	21
28.09.2023	N/23/10/1-0150	12	11	33	17
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

Project : Redi Iron Ore Mine (203)					
Client : M/s. Gogte Minerals					
Station at & Code : A10- Near Primary School - sakalbhatwadi Redi village					
Duration : 24 Hrs					
Date of Report : 05.10.2023					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	PM <sub>10</sub> , (µg/m <sup>3</sup> )	PM <sub>2.5</sub> , (µg/m <sup>3</sup> )
08.09.2023	N/23/09/2-0171	4	10	30	20
09.09.2023	N/23/09/3-0050	11	11	32	17
11.09.2023	N/23/09/4-0049	5	11	36	21
12.09.2023	N/23/09/4-0097	8	13	42	22
20.09.2023	N/23/09/5-0054	11	11	54	27
21.09.2023	N/23/09/5-0106	7	10	48	24
27.09.2023	N/23/10/1-0110	10	12	35	19
28.09.2023	N/23/10/1-0151	12	9	37	18
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

Project : Redi Iron Ore Mine (203)												
Month : September, 2023												
Station Code : A IV - Core Zone (ML Area, behind the Mines Office)					Station Code : A V - Redi village				Station Code : A VI - Shiroda village			
	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Min.	4	9	31	15	4	9	34	17	4	9	30	19
10%	5	10	36	18	5	9	35	19	4	9	36	20
25%	6	10	40	20	5	10	38	21	5	10	41	22
50%	7	11	45	21	9	11	40	22	9	11	43	23
75%	8	12	48	27	11	12	44	24	10	12	51	25
98%	9	13	51	29	12	13	49	26	12	13	53	28
Max.	9	13	51	29	12	13	49	26	12	13	53	28
Avg.	7	11	43	22	8	11	41	22	8	11	44	23
SD	2	1	7	5	3	2	5	3	3	2	8	3
No. of obs	8				8				8			
Station Code : A VII - Gaontala village					Station Code : A VIII- Kanyalwadi village							
	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>				
Min.	4	9	32	16	7	9	30	16				
10%	6	9	35	17	7	9	34	17				
25%	8	10	38	19	9	10	38	19				
50%	9	11	41	22	10	11	40	20				
75%	10	12	45	24	10	12	42	22				
98%	11	13	48	26	11	13	45	25				
Max.	11	13	48	26	11	13	45	25				
Avg.	8	11	41	21	9	11	39	20				
SD	2	2	5	4	2	1	5	3				
No. of obs	8				8							

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## TEST REPORT

Table No.13  
Report No : 001323093

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	: SW1 - Pit water
Sample Collected by	: Environmental Laboratory Representative
Date of sample collection	: 09.09.2023
Issue Date	: 22.09.2023
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016

Sl. No.	Parameters	Lab code	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
		ED/23/09/3-0013		
		Results		
		SW1		
1	pH	6.13	6.0-9.0	IS 3025 (P-11) 2022
3	Chemical Oxygen Demand (COD) mg/l	<5	250	IS 3025 (P-58) 2006 RA2022
2	Biochemical Oxygen Demand mg/l, BOD <sub>5</sub> 27 <sup>o</sup> C	<3.0	30	IS 3025 (P-44) 2014
4	Total Suspended Solids, mg/l	5.0	100	IS 3025 (P-17) 2022
5	Fixed Dissolved Solids (FDS) mg/l	390	2100	IS 3025(P-18) 2022
6	Temperature ° C	29	Shall not 5 <sup>o</sup> 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 <sub>3</sub> , 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	219	1000	IS 3025 (P-32) 1988 RA2019
13	Sulphates (as SO <sub>4</sub> ) mg/l	23	1000	IS 3025 (P-24) Sec 1 2022
14	Fluoride (as F), mg/l	0.14	2	APHA23rd Edition 4500F
15	Sulphide (as S), mg/l	<0.01	2	IS 3025 (P-29) 2022
16	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> 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	0.048	5	IS 3025 (P-2) 2019
19	Iron (as Fe), mg/l	0.064	3	IS 3025 (P-2) 2019
20	Copper (as Cu), mg/l	0.120	3	IS 3025 (P-2) 2019
21	Trivalent Chromium (as Cr <sup>+3</sup> ) mg/l	<0.03	2	SOP/CW-4
22	Manganese (as Mn), mg/l	0.824	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	0.015	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 <sup>+6</sup> ) 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. 14

Report No : ED001423093

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	: 09.09.2023
Lab Code	: ED/23/09/3-0014
Issue Date	: 22.09.2023

Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)

Sl. No.	Parameters	Results	Limits For Stream Water Standards	Method of Testing
		SW2		
1	Colour (Hazen Units), Max	<1.0	300	IS:3025(Part-4)2021
2	pH	7.00	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O <sub>2</sub> ), mg/l	5.6	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	790	1500	IS:3025(Part-18)2023
6	Nitrates (as NO <sub>3</sub> ),mg/l, Max	<0.1	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	401.7	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	0.03	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> 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 <sub>4</sub> (mg/l), Max	84.87	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	Hexavalent Chromium (as Cr <sup>+6</sup> ), mg/l, Max	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l	<3.0	3	IS:3025(P-44) 2014
22	Total Coliform (mpn/100ml), Max	177	5000	IS:1622:1981

"END OF REPORT"

*(Signature)*

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## TEST REPORT

Table No. 15


Report No : ED002223093

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 : 09.09.2023  
Lab Code : ED/23/09/3-0022  
Issue Date : 23.09.2023

Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)

Sl. No.	Parameters	Results	Limits For Stream Water Standards	Method of Testing
		SW3		
1	Colour (Hazen Units), Max	10	300	IS:3025(Part-4)2021
2	pH	6.79	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O <sub>2</sub> ), mg/l	5.6	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	780	1500	IS:3025(Part-16)2023
6	Nitrates (as NO <sub>3</sub> ),mg/l, Max	<0.1	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	350	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 <sub>6</sub> H <sub>5</sub> 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 <sub>4</sub> (mg/l), Max	94.75	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	Hexavalent Chromium (as Cr <sup>+6</sup> ), mg/l, Max	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l	<3.0	3	IS:3025(P-44) 2014
22	Total Coliform (mpn/100ml), Max	175	5000	IS:1622:1981

"END OF REPORT"

  
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Recognised by MoEFCC(CPCB) under E(P) Act 1986 & recognition is valid upto 23.05.2025

## TEST REPORT

Table No. 16

Report No : ED002323093

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 : 09.09.2023  
Lab Code : ED/23/09/3-0023  
Issue Date : 23.09.2023

Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)

Sl. No.	Parameters	Results	Limits For Stream Water Standards	Method of Testing
		SW4		
1	Colour (Hazen Units), Max	<1	300	IS:3025(Part-4)2021
2	pH	6.91	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O <sub>2</sub> ), mg/l	5.3	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	510	1500	IS:3025(Part-18)2023
6	Nitrates (as NO <sub>3</sub> ),mg/l, Max	0.180	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	210.0	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 <sub>6</sub> H <sub>5</sub> 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 <sub>4</sub> (mg/l), Max	11.50	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	Hexavalent Chromium (as Cr <sup>+6</sup> ), mg/l, Max	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l	<3.0	3	IS:3025(P-44) 2014
22	Total Coliform (mpn/100ml), Max	148	5000	IS:1622:1981

"END OF REPORT"

*(Signature)*  
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