

# **ENVIRONMENTAL MONITORING REPORT**

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

## LIST OF TABLES

<b>SL. NO.</b>	<b>PARTICULARS</b>	<b>TABLE NO.</b>
1	Test Report of Fugitive Emission	1
2	Test Report of Ambient Air Quality	2 to 6
3	Analysis Report of Ambient Air Quality (Transportation Route)	7 & 8
4	Statistical Ambient Air Quality Report	9
5	Noise Level Data	10
6	Water Test Report As per GSR-422E	11
7	Water Test Report As per IS 2296	12
8	Water Test Report As per IS 10500	13 & 15
9	Sewage Water Test Report	16



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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	: 03.06.2024						
Station at & Code	Date of sample	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> )	SPM (µg/m <sup>3</sup> )	Carbon Monoxide* (CO), mg/m <sup>3</sup>
FA1- Dumping site (North Eastern side of Mining Lease)	10.05.2024	N/24/05/2-0232	12	16	155	267	0.15
	24.05.2024	N/24/05/4-0431	9	12	115	256	0.25
FA2 - Haulage/Transport road	10.05.2024	N/24/05/2-0224	10	11	93	310	0.34
	24.05.2024	N/24/05/4-0423	10	12	187	360	0.18
FA3 - Near Mine Pit Edge	10.05.2024	N/24/05/2-0225	9	11	174	420	0.15
	24.05.2024	N/24/05/4-0424	13	15	132	275	0.25
Within in Mining Area Pollutant			SO <sub>2</sub>	NO <sub>2</sub>	RPM (PM <sub>10</sub> )	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
<b>Note : * Parameters monitored for period of 1 hr</b>							

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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 : 03.06.2024  
 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>
10.05.2024	N/24/05/2-0226	9	11	60	32	<20	<1
11.05.2024	N/24/05/3-0053	7	9	58	30	<20	<1
13.05.2024	N/24/05/4-0019	6	11	53	31	<20	<1
14.05.2024	N/24/05/4-0059	12	15	44	27	<20	<1
24.05.2024	N/24/05/4-0425	10	13	50	29	<20	<1
25.05.2024	N/24/05/5-0030	9	11	37	18	<20	<1
27.05.2024	N/24/05/5-0068	11	18	63	35	<20	<1
28.05.2024	N/24/05/5-0127	13	13	48	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>
10.05.2024	N/24/05/2-0226	0.26	<0.1	<0.5	<0.5	0.31	25
11.05.2024	N/24/05/3-0053	0.22	<0.1	<0.5	<0.5	0.32	27
13.05.2024	N/24/05/4-0019	0.18	<0.1	<0.5	<0.5	0.25	26
14.05.2024	N/24/05/4-0059	0.11	<0.1	<0.5	<0.5	0.31	23
24.05.2024	N/24/05/4-0425	0.18	<0.1	<0.5	<0.5	0.41	24
25.05.2024	N/24/05/5-0030	0.21	<0.1	<0.5	<0.5	0.36	25
27.05.2024	N/24/05/5-0068	0.15	<0.1	<0.5	<0.5	0.28	21
28.05.2024	N/24/05/5-0127	0.19	<0.1	<0.5	<0.5	0.24	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. 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 : 03.06.2024  
 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>
10.05.2024	N/24/05/2-0227	11	14	55	29	<20	<1
11.05.2024	N/24/05/3-0054	12	16	47	19	<20	<1
13.05.2024	N/24/05/4-0020	13	15	54	29	<20	<1
14.05.2024	N/24/05/4-0060	10	11	50	27	<20	<1
24.05.2024	N/24/05/4-0426	11	15	44	28	<20	<1
25.05.2024	N/24/05/5-0031	9	12	46	26	<20	<1
27.05.2024	N/24/05/5-0069	11	13	48	22	<20	<1
28.05.2024	N/24/05/5-0128	7	11	45	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 <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>
10.05.2024	N/24/05/2-0227	0.23	<0.1	<0.5	<0.5	0.22	25
11.05.2024	N/24/05/3-0054	0.11	<0.1	<0.5	<0.5	0.44	20
13.05.2024	N/24/05/4-0020	0.20	<0.1	<0.5	<0.5	0.35	24
14.05.2024	N/24/05/4-0060	0.17	<0.1	<0.5	<0.5	0.31	28
24.05.2024	N/24/05/4-0426	0.15	<0.1	<0.5	<0.5	0.22	23
25.05.2024	N/24/05/5-0031	0.17	<0.1	<0.5	<0.5	0.26	21
27.05.2024	N/24/05/5-0069	0.11	<0.1	<0.5	<0.5	0.33	20
28.05.2024	N/24/05/5-0128	0.21	<0.1	<0.5	<0.5	0.28	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. 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 : 03.06.2024  
 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>
10.05.2024	N/24/05/2-0228	7	10	59	36	<20	<1
11.05.2024	N/24/05/3-0055	10	10	50	30	<20	<1
13.05.2024	N/24/05/4-0021	11	12	54	32	<20	<1
14.05.2024	N/24/05/4-0061	9	11	45	24	<20	<1
24.05.2024	N/24/05/4-0427	11	12	35	19	<20	<1
25.05.2024	N/24/05/5-0032	10	13	40	22	<20	<1
27.05.2024	N/24/05/5-0070	11	16	48	25	<20	<1
28.05.2024	N/24/05/5-0129	13	18	43	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>
10.05.2024	N/24/05/2-0228	0.15	<0.1	<0.5	<0.5	0.41	22
11.05.2024	N/24/05/3-0055	0.11	<0.1	<0.5	<0.5	0.26	20
13.05.2024	N/24/05/4-0021	0.21	<0.1	<0.5	<0.5	0.33	21
14.05.2024	N/24/05/4-0061	0.13	<0.1	<0.5	<0.5	0.46	23
24.05.2024	N/24/05/4-0427	0.11	<0.1	<0.5	<0.5	0.28	25
25.05.2024	N/24/05/5-0032	0.25	<0.1	<0.5	<0.5	0.42	21
27.05.2024	N/24/05/5-0070	0.21	<0.1	<0.5	<0.5	0.26	22
28.05.2024	N/24/05/5-0129	0.18	<0.1	<0.5	<0.5	0.36	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. 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 : 03.06.2024  
 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>
10.05.2024	N/24/05/2-0229	10	13	54	33	<20	<1
11.05.2024	N/24/05/3-0056	11	14	54	27	<20	<1
13.05.2024	N/24/05/4-0022	9	12	57	31	<20	<1
14.05.2024	N/24/05/4-0062	13	15	50	26	<20	<1
24.05.2024	N/24/05/4-0428	11	13	46	22	<20	<1
25.05.2024	N/24/05/5-0033	9	15	35	19	<20	<1
27.05.2024	N/24/05/5-0071	11	14	44	26	<20	<1
28.05.2024	N/24/05/5-0130	12	12	38	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>
10.05.2024	N/24/05/2-0229	0.13	<0.1	<0.5	<0.5	0.28	24
11.05.2024	N/24/05/3-0056	0.16	<0.1	<0.5	<0.5	0.25	22
13.05.2024	N/24/05/4-0022	0.22	<0.1	<0.5	<0.5	0.30	24
14.05.2024	N/24/05/4-0062	0.15	<0.1	<0.5	<0.5	0.22	28
24.05.2024	N/24/05/4-0428	0.18	<0.1	<0.5	<0.5	0.26	21
25.05.2024	N/24/05/5-0033	0.22	<0.1	<0.5	<0.5	0.36	<20
27.05.2024	N/24/05/5-0071	0.28	<0.1	<0.5	<0.5	0.42	22
28.05.2024	N/24/05/5-0130	0.15	<0.1	<0.5	<0.5	0.45	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. 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 : 03.06.2024  
 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>
10.05.2024	N/24/05/2-0230	10	11	50	23	<20	<1
11.05.2024	N/24/05/3-0057	7	10	42	25	<20	<1
13.05.2024	N/24/05/4-0023	9	11	61	33	<20	<1
14.05.2024	N/24/05/4-0063	13	17	44	23	<20	<1
24.05.2024	N/24/05/4-0429	10	11	49	26	<20	<1
25.05.2024	N/24/05/5-0034	12	18	41	26	<20	<1
27.05.2024	N/24/05/5-0072	10	11	50	27	<20	<1
28.05.2024	N/24/05/5-0131	9	13	48	23	<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>
10.05.2024	N/24/05/2-0230	0.22	<0.1	<0.5	<0.5	0.35	27
11.05.2024	N/24/05/3-0057	0.24	<0.1	<0.5	<0.5	0.23	21
13.05.2024	N/24/05/4-0023	0.25	<0.1	<0.5	<0.5	0.25	24
14.05.2024	N/24/05/4-0063	0.11	<0.1	<0.5	<0.5	0.31	21
24.05.2024	N/24/05/4-0429	0.28	<0.1	<0.5	<0.5	0.35	20
25.05.2024	N/24/05/5-0034	0.17	<0.1	<0.5	<0.5	0.26	22
27.05.2024	N/24/05/5-0072	0.22	<0.1	<0.5	<0.5	0.21	20
28.05.2024	N/24/05/5-0131	0.16	<0.1	<0.5	<0.5	0.28	<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.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	: 03.06.2024				
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> )
10.05.2024	N/24/05/2-0231	8	15	57	32
11.05.2024	N/24/05/3-0058	14	18	54	29
13.05.2024	N/24/05/4-0024	11	13	52	28
14.05.2024	N/24/05/4-0064	10	15	46	26
24.05.2024	N/24/05/4-0430	12	16	54	27
25.05.2024	N/24/05/5-0035	9	14	36	15
27.05.2024	N/24/05/5-0073	9	10	63	35
28.05.2024	N/24/05/5-0132	11	13	58	28
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	: 03.06.2024				
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> )
10.05.2024	N/24/05/2-0223	11	13	54	35
11.05.2024	N/24/05/3-0050	9	11	50	28
13.05.2024	N/24/05/4-0016	11	18	60	36
14.05.2024	N/24/05/4-0056	9	12	58	31
24.05.2024	N/24/05/4-0422	12	16	46	25
25.05.2024	N/24/05/5-0027	12	14	50	27
27.05.2024	N/24/05/5-0065	10	12	49	24
28.05.2024	N/24/05/5-0124	11	14	55	30
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 : May, 2024												
Station Code : A4 - Core Zone (ML Area, behind the Mines Office)					Station Code : A5 - Redi village				Station Code : A6 - 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.	6	9	37	18	7	11	44	19	7	10	35	19
10%	7	10	42	24	8	11	45	21	8	10	39	21
25%	9	11	47	27	10	12	46	24	10	11	42	24
50%	10	12	52	30	11	14	48	27	11	12	47	26
75%	11	14	59	31	11	15	51	28	11	14	51	31
98%	13	18	63	35	13	16	55	29	13	18	58	35
Max.	13	18	63	35	13	16	55	29	13	18	59	36
Avg.	10	13	52	29	11	13	49	26	10	13	47	27
SD	2	3	9	5	2	2	4	4	2	3	8	6
No. of obs	8				8				8			
Station Code : A7 - Gaontala village					Station Code : A8 - 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.	9	12	35	19	7	10	41	23				
10%	9	12	37	19	8	11	42	23				
25%	10	13	43	21	9	11	44	23				
50%	11	14	48	26	10	11	49	26				
75%	11	14	54	28	11	14	50	26				
98%	13	15	57	33	13	18	59	32				
Max.	13	15	57	33	13	18	61	33				
Avg.	11	14	47	25	10	13	48	26				
SD	1	1	8	5	2	3	6	3				
No. of obs	8				8							

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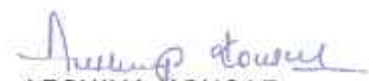
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## TEST REPORT

### NOISE LEVEL DATA

Table No. 10

Name of the Client		: M/s. Gogte Minerals					
Name of the Project		: Redi Iron Ore Mine (203)					
Particulars of sample collected		: Sound Levels					
Sample Collected by		: Environmental Laboratory					
Date of sample collection		: 20.05.2024					
Date of sample receipt		: 21.05.2024					
Issue Date		: 03.06.2024					
Sampling & Test Method		: IS:9989					
Code No.	Monitoring stations	Day			Night		
		L <sub>min</sub>	L <sub>eq</sub>	L <sub>max</sub>	L <sub>min</sub>	L <sub>eq</sub>	L <sub>max</sub>
<b>Bufferzone</b>							
N1	Redi village	40.0	49.7	56.8	35.0	41.4	48.0
N2	Gaontala village	42.0	49.1	57.0	34.0	41.3	47.3
N3	Kanyalwadi village	39.0	50.8	58.6	33.8	40.7	48.0
N4	Shiroda village	41.0	51.9	59.3	35.0	42.2	47.0
N5	Tiroda village	36.0	48.2	54.8	33.6	37.3	43.5
N6	Near NIMCO Gate - Tivrewadi, Redi village	43.0	54.0	59.3	34.6	41.5	48.8
N7	Near Primary School - sakalbhatwadi, Redi village	36.0	49.5	55.8	34.0	40.8	47.5
<b>Corezone</b>							
N8	Near Mine office	42.0	57.5	65.0	34.0	45.0	51.0
<b>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</b>							
		<b>Leq. Limit dB(A)</b>					
		<b>Day</b>	<b>Night</b>				
Industrial areas		75	70				
Commercial area		65	55				
Residential area		55	45				

  
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## TEST REPORT

Table No. 11

Report No: N023524054

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 (Unit of Mineral Engineering Services)			
Date of sample collection	: 21.05.2024			
Lab Code	: N/24/05/4-0235			
Issue Date	: 27.05.2024			
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	10	—	IS 3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l), Max	40	100	IS 3025 (P-17) 2022
3	Particle size of suspended solids	Pass through 850 micron	Shall Pass through 850 micron	IS 2488 (Part-1)
4	pH	7.62	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-8) 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 RA2019
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.5	100	IS 3025 (P-34) 1988 RA2019
10	Free Ammonia as NH <sub>3</sub> (mg/l), Max	<0.1	5.0	IS 2488 (Part-IV)
11	BOD [3 days at 27°C] (mg/l), Max	<3	30	IS 3025 (P-44) 2014
12	COD (mg/l), Max	50	250	IS 3025 (P-58) 2006 RA2022
13	Arsenic as As (mg/l), Max	<0.002	0.2	IS 3025 (P-2) 2019
14	Mercury as Hg (mg/l), Max	<0.0005	0.01	IS 3025 (P-2) 2019
15	Lead as Pb (mg/l), Max	<0.005	0.1	IS 3025 (P-2) 2019
16	Cadmium as Cd (mg/l), Max	<0.001	2.0	IS 3025 (P-2) 2019
17	Hexavalent Chromium as Cr <sup>6+</sup> (mg/l), Max	<0.03	0.1	IS 3025 (P-52) 2014
18	Total Chromium as Cr (mg/l), Max	<0.03	2.0	IS 3025 (Part-52)
19	Copper as Cu (mg/l), Max	<0.005	3.0	IS 3025 (P-2) 2019
20	Zinc as Zn (mg/l), Max	<0.005	5.0	IS 3025 (P-2) 2019
21	Selenium as Se (mg/l), Max	<0.005	0.05	IS 3025 (P-2) 2019
22	Nickel as Ni (mg/l), Max	<0.001	3.0	IS 3025 (P-2) 2019
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	0.66	2.0	APHA23rd Edition 4500F
25	Dissolved Phosphates as PO <sub>4</sub> (mg/l), Max	<0.05	5.0	IS 2488 (Part-IV)
26	Sulphide as S (mg/l), Max	<0.01	2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> 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 <sup>-7</sup>	APHA 21*
	b) Beta Emitters (µcurie/ml), Max	NA	10 <sup>-6</sup>	APHA 21*
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	<0.001	2	IS 3025 (P-2) 2019
31	Iron as Fe (mg/l), Max	0.8	3	IS 3025 (P-2) 2019
32	Vanadium as V (mg/l), Max	<0.001	0.2	IS 3025 (P-2) 2019
33	Nitrate Nitrogen (mg/l), Max	<0.1	10	IS 3025 (P-34) 1988 RA2019

\*\*\*END OF REPORT\*\*\*

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### TEST REPORT

Table No. 12

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203), 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	: 21.05.2024
Issue Date	: 27.05.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Sl. No.	Lab Code	N/24/05/4-0236	N/24/05/4-0237	N/24/05/4-0238	Limits For Stream Water Standards	Method of Testing
	Sample Code	SW2	SW3	SW4		
	Parameters	Results				
1	Colour (Hazen Units), Max	5	5	5	300	IS:3025(Part-4)2021
2	pH	6.65	6.94	6.85	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O <sub>2</sub> ), mg/l	5.2	2.7	5.8	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<1.0	<1.0	<1.0	0.1	IS:3025(Part-39) 2021
5	Total Dissolved Solids (mg/l), Max	1350	950	468	1500	IS:3025(Part-16)2023
6	Nitrates (as NO <sub>3</sub> ),mg/l, Max	24.0	12.0	5.3	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	588.0	500.0	200.0	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.35	0.75	<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 <sub>6</sub> H <sub>5</sub> 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 <sub>4</sub> ),mg/l, Max	120.0	60.0	48.0	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 <sup>+6</sup> ), mg/l, Max	<0.03	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l	<3	<3	<3	3	IS:3025(P-44) 2014
22	Total Coliform, MPN/100ml, Max	210	130	125	5000	IS:1622:1981

"END OF REPORT"

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### TEST REPORT

Table No. 13


<b>Name of the Client</b>		: M/s. Gogte Minerals				
<b>Name of the Project</b>		: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, MH State.				
<b>Particulars of sample collected</b>		: GW1 - Tiroda village open well, GW2 - Redi village open well				
<b>Sample Collected by</b>		: Environmental Laboratory (Unit of Mineral Engineering Services)				
<b>Date of sample collection</b>		: 21.05.2024				
<b>Date of sample receipt</b>		: 22.05.2024				
<b>Issue Date</b>		: 27.05.2024				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
<b>Lab Code</b>		N/24/05/4-0239	N/24/05/4-0240			
Sl. No.	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
		GW1	GW2			
1	Colour (Hazen Units), Max	<1.0	<1.0	5	15	IS:3025 (P-4)2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH	6.65	6.66	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity ( $\mu\text{mhos/cm}$ )	86.0	600.0	—	—	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	48.0	400.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.01	<0.01	0.03	0.2	IS:3025 (P-55)2003 RA2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57), 2021
13	Calcium (as Ca),mg/l, Max	5.16	30.00	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	22.00	140.00	250	1000	IS:3025 (P-32)1986 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	0.50	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as Cl <sub>2</sub> , Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg) mg/l, Max	1.94	18.10	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.1	1.0	1.0	Clause 6 of IS:3025 (P-39) 2021
23	Nitrates (as NO <sub>3</sub> ),mg/l, Max	<0.1	2.3	45	45	IS:3025 (P-34) 1988 RA 2019
24	Phenolics (as C <sub>6</sub> H <sub>5</sub> OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO <sub>4</sub> ),mg/l, Max	1.6	45.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H <sub>2</sub> S), mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29) 1986 RA 2019
30	Alkalinity (as CaCO <sub>3</sub> ) mg/l, Max	16.0	60.0	200	600	IS:3025 (P-23);1986 RA 2019
31	Total Hardness (as CaCO <sub>3</sub> ),mg/l, Max	20.0	125.0	200	600	IS:3025 (P-21);2009 RA, 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected	Not Detected	100ml Sample		IS:15185:2016 RA 2021
42	Water levels in well from surface (m)	6.97	4.82	—	—	—

"END OF REPORT"

  
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# ENVIRONMENTAL LABORATORY

## (UNIT OF MINERAL ENGINEERING SERVICES LLP)

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

### TEST REPORT

Table No. 14

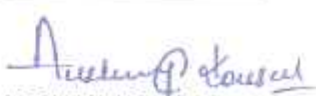
<b>Name of the Client</b>		: M/s. Gogte Minerals				
<b>Name of the Project</b>		: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, MH State.				
<b>Particulars of sample collected</b>		: GW3 -Shiroda village open well, GW4 - Kanyalwadi village open well,				
<b>Sample Collected by</b>		: Environmental Laboratory (Unit of Mineral Engineering Services)				
<b>Date of sample collection</b>		: 21.05.2024				
<b>Date of sample receipt</b>		: 22.05.2024				
<b>Issue Date</b>		: 27.05.2024				
<b>Ref</b>		: IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)				
<b>Lab Code</b>		N/24/05/4-0241		N/24/05/4-0242		
Sl. No.	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
		GW3	GW4			
1	Colour (Hazen Units), Max	1	2	5	15	IS:3025 (P-4)02021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH	6.88	6.66	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity ( $\mu$ mhos/cm)	410.0	500.0	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	225.0	280.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.01	<0.01	0.03	0.2	IS:3025 (P-55)2003 RA2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	17.60	20.00	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	56.00	120.0	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	0.15	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as Cl <sub>2</sub> , Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg) mg/l, Max	15.00	8.50	30	100	IS:3025 (P-16)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 5 of IS 3025 (P-39) 2021
23	Nitrates (as NO <sub>3</sub> ),mg/l, Max	2.6	3.1	45	45	IS:3025 (P-34) 1988 RA 2019
24	Phenolics (as C <sub>6</sub> H <sub>5</sub> OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO <sub>4</sub> ),mg/l, Max	28.00	42.00	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H <sub>2</sub> S), mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30	Alkalinity (as CaCO <sub>3</sub> ) mg/l, Max	88.0	5.0	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO <sub>3</sub> ),mg/l, Max	106.0	85.0	200	600	IS:3025 (P-21):2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected	Not Detected	100ml Sample		IS:15185:2016 RA 2021
42	Water levels in well from surface (m)	3.75	1.02	--	--	--

"END OF REPORT"

  
BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

  
ARSHIYA KOUSAR

Dy. T.M. - Chemical

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### TEST REPORT

Table No. 15

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		: GW5 - Gaontala village open well, GW6 -Tap water (near mines office)				
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)				
Date of sample collection		: 21.05.2024				
Date of sample receipt		: 22.05.2024				
Issue Date		: 27.05.2024				
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Lab Code		N/24/05/4-0243	N/24/05/4-0244			
Sl. No.	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
		GW5	GW6			
1	Colour (Hazen Units), Max	<1.0	<1.0	5	15	IS:3025 (P-4)2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH	6.70	7.58	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-8)1984 RA 2017
5	Turbidity,NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1884 RA2017
6	Electrical Conductivity ( $\mu$ mhos/cm)	140.0	670	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	78.0	370	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.01	<0.01	0.03	0.2	IS:3025 (P-55)2003 RA2019
9	Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS 3025 (P-34)1988 RA2019
10	Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11	Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS 3025(P-2)2019
12	Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS 3025 (Part-57) 2021
13	Calcium (as Ca),mg/l, Max	14.40	14.00	75	200	IS:3025 (P-40)1991 RA 2019
14	Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15	Chloride as Cl (mg/l),mg/l, Max	34.00	175.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18	Chloramines as Cl <sub>2</sub> , Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19	Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20	Magnesium (as Mg) mg/l, Max	7.30	13.30	30	100	IS:3025 (P-46)1994 RA 2019
21	Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22	Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO <sub>3</sub> ),mg/l, Max	1.50	2.00	45	45	IS:3025 (P-34) 1988 RA 2019
24	Phenolics (as C <sub>6</sub> H <sub>5</sub> OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25	Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26	Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27	Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28	Sulphates (as SO <sub>4</sub> ),mg/l, Max	12.00	50.50	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H <sub>2</sub> S), mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29) 1988 RA 2019
30	Alkalinity (as CaCO <sub>3</sub> ) mg/l, Max	6.0	15.0	200	600	IS:3025 (P-23) 1986 RA 2019
31	Total Hardness (as CaCO <sub>3</sub> ) mg/l, Max	66.0	90.0	200	600	IS:3025 (P-21) 2009 RA 2019
32	Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38	Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39	Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40	Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41	Total Coliform /100ml	Not Detected	Not Detected			IS:15185:2016 RA 2021
42	Water levels in well from surface (m)	12.30	--	--	--	--

"END OF REPORT"

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## TEST REPORT

Table No. 16

Report No: N024525054

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 Water Sample			
Date of sample collection	: 21.05.2024			
Lab Code	: N/24/05/4-0245			
Issue Date	: 27.05.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.25	6.5 -9.0	AOHA (23 <sup>rd</sup> Edition) 4500H* - B
2	Biochemical Oxygen Demand BOD <sub>5</sub> 27 <sup>o</sup> C, mg/l	18.22	<30	IS 3025 (P-44) 1993
3	Total Suspended Solids, at 105 <sup>o</sup> C, mg/l	40	<100	AOHA (23 <sup>rd</sup> Edition) 2540 - D
4	Fecal Coliform (FC), MPN/100ml	90	<1000	AOHA (23 <sup>rd</sup> Edition) 5520 - B

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