

# **ENVIRONMENTAL MONITORING REPORT**

**January, 2025**

**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,

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## TEST REPORT

Table No. 1

### Fugitive Emission

<b>Name of the Client</b>	: M/s. Gogte Minerals						
<b>Name of the Project</b>	: Redl Iron Ore Mine (203)						
<b>Sample Collected by</b>	: Environmental Laboratory (Unit of Mineral Engineering Services)						
<b>Duration</b>	: 08 Hrs						
<b>Issue Date</b>	: 04.02.2025						
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)	06.01.2025	N/25/01/03-0029	12	16	125	325	0.45
	18.01.2025	N/25/01/04-0055	11	15	175	412	0.35
FA2 - Haulage/Transport road	06.01.2025	N/25/01/03-0030	9	12	185	358	0.26
	18.01.2025	N/25/01/04-0056	10	14	165	400	0.47
FA3 - Near Mine Pit Edge	06.01.2025	N/25/01/03-0031	12	16	138	345	0.26
	18.01.2025	N/25/01/04-0057	14	18	145	375	0.28
<b>Within in Mining Area Pollutant</b>			<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>RPM (PM<sub>10</sub>)</b>	<b>SPM (PM)</b>	<b>CO</b>
<b>Concentration in Ambient Air</b>			<b>120</b>	<b>120</b>	<b>250</b>	<b>500</b>	<b>4</b>
<b>Time Weighted Average</b>			<b>24 Hrs</b>	<b>24 Hrs</b>	<b>24 Hrs</b>	<b>24 Hrs</b>	<b>1 Hr</b>
<b>Note : * Parameters monitored for period of 1 hr</b>							

*M. Sachin Raju*  
M.SACHIN RAJU

T.M. - Chemical

Govt. Analyst / Authorised Signatory

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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 : 04.02.2025  
 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>
06.01.2025	N/25/01/03-0022	10	12	56	28	<20	<1
07.01.2025	N/25/01/03-0060	12	18	58	34	<20	<1
17.01.2025	N/25/01/03-0641	11	15	54	27	<20	<1
18.01.2025	N/25/01/04-0048	9	11	42	24	<20	<1
20.01.2025	N/25/01/04-0103	12	14	57	33	<20	<1
21.01.2025	N/25/01/04-0150	9	11	59	35	<20	<1
27.01.2025	N/25/01/5-0193	11	14	51	27	<20	<1
28.01.2025	N/25/01/5-0261	13	18	45	22	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m <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>
06.01.2025	N/25/01/03-0022	0.15	<0.1	<0.5	<0.5	0.42	21
07.01.2025	N/25/01/03-0060	0.13	<0.1	<0.5	<0.5	0.33	20
17.01.2025	N/25/01/03-0641	0.10	<0.1	<0.5	<0.5	0.33	26
18.01.2025	N/25/01/04-0048	0.14	<0.1	<0.5	<0.5	0.36	26
20.01.2025	N/25/01/04-0103	0.13	<0.1	<0.5	<0.5	0.29	28
21.01.2025	N/25/01/04-0150	0.19	<0.1	<0.5	<0.5	0.30	22
27.01.2025	N/25/01/5-0193	0.10	<0.1	<0.5	<0.5	0.26	21
28.01.2025	N/25/01/5-0261	0.12	<0.1	<0.5	<0.5	0.23	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. 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	: 04.02.2025
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>
06.01.2025	N/25/01/03-0023	11	12	50	25	<20	<1
07.01.2025	N/25/01/03-0061	10	11	51	27	<20	<1
17.01.2025	N/25/01/03-0642	9	13	47	25	<20	<1
18.01.2025	N/25/01/04-0049	12	16	56	28	<20	<1
20.01.2025	N/25/01/04-0104	11	14	52	26	<20	<1
21.01.2025	N/25/01/04-0151	9	10	55	34	<20	<1
27.01.2025	N/25/01/5-0194	12	15	59	33	<20	<1
28.01.2025	N/25/01/5-0262	10	13	54	32	<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>
06.01.2025	N/25/01/03-0023	0.15	<0.1	<0.5	<0.5	0.21	20
07.01.2025	N/25/01/03-0061	0.19	<0.1	<0.5	<0.5	0.25	23
17.01.2025	N/25/01/03-0642	0.21	<0.1	<0.5	<0.5	0.29	22
18.01.2025	N/25/01/04-0049	0.14	<0.1	<0.5	<0.5	0.32	20
20.01.2025	N/25/01/04-0104	0.12	<0.1	<0.5	<0.5	0.41	21
21.01.2025	N/25/01/04-0151	0.11	<0.1	<0.5	<0.5	0.21	23
27.01.2025	N/25/01/5-0194	0.17	<0.1	<0.5	<0.5	0.25	25
28.01.2025	N/25/01/5-0262	0.19	<0.1	<0.5	<0.5	0.33	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. 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 : 04.02.2025  
 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>
06.01.2025	N/25/01/03-0024	11	15	50	28	<20	<1
07.01.2025	N/25/01/03-0062	12	18	49	26	<20	<1
17.01.2025	N/25/01/03-0643	10	12	36	23	<20	<1
18.01.2025	N/25/01/04-0050	9	11	40	27	<20	<1
20.01.2025	N/25/01/04-0105	10	15	45	22	<20	<1
21.01.2025	N/25/01/04-0152	10	13	48	23	<20	<1
27.01.2025	N/25/01/5-0195	7	9	43	23	<20	<1
28.01.2025	N/25/01/5-0263	9	11	36	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>
06.01.2025	N/25/01/03-0024	0.12	<0.1	<0.5	<0.5	0.22	26
07.01.2025	N/25/01/03-0062	0.15	<0.1	<0.5	<0.5	0.29	20
17.01.2025	N/25/01/03-0643	0.22	<0.1	<0.5	<0.5	0.38	26
18.01.2025	N/25/01/04-0050	0.15	<0.1	<0.5	<0.5	0.30	23
20.01.2025	N/25/01/04-0105	0.19	<0.1	<0.5	<0.5	0.44	20
21.01.2025	N/25/01/04-0152	0.10	<0.1	<0.5	<0.5	0.35	25
27.01.2025	N/25/01/5-0195	0.12	<0.1	<0.5	<0.5	0.32	26
28.01.2025	N/25/01/5-0263	0.11	<0.1	<0.5	<0.5	0.29	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. 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	: 04.02.2025
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>
06.01.2025	N/25/01/03-0025	8	9	52	26	<20	<1
07.01.2025	N/25/01/03-0063	10	12	58	33	<20	<1
17.01.2025	N/25/01/03-0644	11	14	55	28	<20	<1
18.01.2025	N/25/01/04-0051	9	11	40	22	<20	<1
20.01.2025	N/25/01/04-0106	13	18	52	27	<20	<1
21.01.2025	N/25/01/04-0153	10	14	50	28	<20	<1
27.01.2025	N/25/01/5-0196	9	11	50	28	<20	<1
28.01.2025	N/25/01/5-0264	10	12	38	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>
06.01.2025	N/25/01/03-0025	0.17	<0.1	<0.5	<0.5	0.26	21
07.01.2025	N/25/01/03-0063	0.12	<0.1	<0.5	<0.5	0.39	30
17.01.2025	N/25/01/03-0644	0.14	<0.1	<0.5	<0.5	0.28	23
18.01.2025	N/25/01/04-0051	0.10	<0.1	<0.5	<0.5	0.35	20
20.01.2025	N/25/01/04-0106	0.12	<0.1	<0.5	<0.5	0.45	21
21.01.2025	N/25/01/04-0153	0.21	<0.1	<0.5	<0.5	0.41	23
27.01.2025	N/25/01/5-0196	0.10	<0.1	<0.5	<0.5	0.33	25
28.01.2025	N/25/01/5-0264	0.23	<0.1	<0.5	<0.5	0.22	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.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	: 04.02.2025
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>
06.01.2025	N/25/01/03-0026	9	11	46	24	<20	<1
07.01.2025	N/25/01/03-0064	12	14	52	27	<20	<1
17.01.2025	N/25/01/03-0645	10	13	55	29	<20	<1
18.01.2025	N/25/01/04-0052	11	12	40	24	<20	<1
20.01.2025	N/25/01/04-0107	12	18	51	27	<20	<1
21.01.2025	N/25/01/04-0154	8	13	54	30	<20	<1
27.01.2025	N/25/01/5-0197	11	16	56	29	<20	<1
28.01.2025	N/25/01/5-0265	9	12	58	34	<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>
06.01.2025	N/25/01/03-0026	0.17	<0.1	<0.5	<0.5	0.26	24
07.01.2025	N/25/01/03-0064	0.10	<0.1	<0.5	<0.5	0.24	22
17.01.2025	N/25/01/03-0645	0.15	<0.1	<0.5	<0.5	0.35	21
18.01.2025	N/25/01/04-0052	0.12	<0.1	<0.5	<0.5	0.22	20
20.01.2025	N/25/01/04-0107	0.17	<0.1	<0.5	<0.5	0.25	26
21.01.2025	N/25/01/04-0154	0.15	<0.1	<0.5	<0.5	0.26	26
27.01.2025	N/25/01/5-0197	0.13	<0.1	<0.5	<0.5	0.31	28
28.01.2025	N/25/01/5-0265	0.19	<0.1	<0.5	<0.5	0.28	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

*M. Sachin Raju*  
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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 : 04.02.2025					
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> )
06.01.2025	N/25/01/03-0027	12	18	58	33
07.01.2025	N/25/01/03-0065	10	12	61	35
17.01.2025	N/25/01/03-0646	9	11	55	28
18.01.2025	N/25/01/04-0053	13	15	50	26
20.01.2025	N/25/01/04-0108	11	18	46	25
21.01.2025	N/25/01/04-0155	7	11	60	33
27.01.2025	N/25/01/5-0198	9	12	62	35
28.01.2025	N/25/01/5-0266	12	18	55	32
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. 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	: 04.02.2025				
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> )
06.01.2025	N/25/01/03-0028	11	15	57	33
07.01.2025	N/25/01/03-0066	13	18	55	29
17.01.2025	N/25/01/03-0647	7	13	53	27
18.01.2025	N/25/01/04-0054	11	14	49	25
20.01.2025	N/25/01/04-0109	10	12	51	26
21.01.2025	N/25/01/04-0156	12	18	59	30
27.01.2025	N/25/01/5-0199	11	15	58	29
28.01.2025	N/25/01/5-0267	8	11	52	27
Limits for Industrial ,		80	80	100	60
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs

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## TEST REPORT

Table No. 9

### STATISTICAL AIR QUALITY DATA

Name of the : M/s. Gogte Minerals												
Name of the : Redi Iron Ore Mine (203)												
Month : January, 2025												
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.	9	11	42	22	9	10	47	25	7	9	36	21
10%	9	11	44	23	9	11	49	25	8	10	36	22
25%	10	12	50	26	10	12	51	26	9	11	39	23
50%	11	14	55	28	11	13	53	28	10	13	44	23
75%	12	16	57	33	11	14	55	32	10	15	48	26
98%	13	18	59	35	12	16	59	34	12	18	50	28
Max.	13	18	59	35	12	16	59	34	12	18	50	28
Avg.	11	14	53	29	11	13	53	29	10	13	43	24
SD	1	3	6	5	1	2	4	4	1	3	6	3
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.	8	9	38	21	8	11	40	24				
10%	9	10	39	22	9	12	44	24				
25%	9	11	48	25	9	12	50	26				
50%	10	12	51	28	11	13	53	28				
75%	10	14	53	28	11	15	55	29				
98%	13	17	58	32	12	18	58	33				
Max.	13	18	58	33	12	18	58	34				
Avg.	10	13	49	27	10	14	52	28				
SD	2	3	7	4	1	2	6	3				
No. of obs	8				8							

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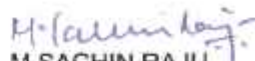
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## TEST REPORT

### NOISE LEVEL DATA

Table No. 10  
Report No : ELMES0222501

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 (Unit of Mineral Engineering Services)						
Date of sample collection	: 14.01.2025						
Date of sample receipt	: 16.01.2025						
Issue Date	: 04.02.2025						
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	39.5	48.5	56.2	35.0	40.5	47.0
N2	Gaontala village	38.0	47.2	53.8	34.0	39.8	46.2
N3	Kanyalwdi village	36.0	50.7	57.0	34.0	41.1	46.2
N4	Shiroda village	36.0	47.2	53.2	34.0	39.9	44.5
N5	Tiroda village	35.6	45.0	52.1	33.6	37.2	42.2
N6	Near NIMCO Gate - Tivrewadi, Redi village	41.0	51.5	58.0	34.0	40.5	48.0
N7	Near Primary School - sakalbhatwadi, Redi village	38.0	48.9	56.2	33.0	41.9	47.2
<b>Corezone</b>							
N8	Near Mine office	42.0	56.9	65.8	34.0	44.6	50.0
<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: N0382250103

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203) Redi village, Vengurla taluk, Sindhudurg (dist), Maharashtra State.			
Particulars of sample collected	: SW1 - Pit water			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection	: 14.01.2025			
Lab Code	: N/25/01/03-0382			
Issue Date	: 25.01.2025			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	3	—	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l), Max	10	100	IS 3025 (P-17) 2022
3	Particle size of suspended solids	Pass through 850 micron	Shall Pass through 850 micron	AOHA 23rd edition
4	pH	6.35	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C	28	Shall not exceed 5° C above the receiving water temp	IS 3025 (P-9) 1984 RA2022
6	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l), Max	<0.1	1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l), Max	<0.1	50	IS 3025 (P-34) 1988 RA 2019
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.1	100	IS 3025 (P-34) 1988 RA 2019
10	Free Ammonia as NH <sub>3</sub> (mg/l), Max	<0.1	5.0	IS 3025 (P-34) 1988 RA 2019
11	BOD (3 days at 27°C) (mg/l), Max	<3	30	IS 3025 (P-44) 2014
12	COD (mg/l), Max	48	250	IS 3025 (P-58) 2006 RA2022
13	Arsenic as As (mg/l), Max	<0.01	0.2	APHA 3030K
14	Mercury as Hg (mg/l), Max	<0.001	0.01	APHA 3030K
15	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 3030K
16	Cadmium as Cd (mg/l), Max	<0.01	2.0	APHA 3030K
17	Hexavalent Chromium as Cr <sup>+6</sup> (mg/l), Max	<0.03	0.1	IS 3025 (P-52) 2014
18	Total Chromium as Cr (mg/l), Max	<0.01	2.0	APHA 3030K
19	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 3030K
20	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 3030K
21	Selenium as Se (mg/l), Max	<0.05	0.05	APHA 3030K
22	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 3030K
23	Cyanide as CN (mg/l), Max	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l), Max	0.75	2.0	APHA 23rd Edition 4500F
25	Dissolved Phosphates as PO <sub>4</sub> (mg/l), Max	<0.05	5.0	IS 2488 (P-31) Sec 1 2022
26	Sulphide as S (mg/l), Max	<0.01	2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C <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 <sup>st</sup>
	b) Beta Emitters (µcurie/ml), Max	NA	10 <sup>-6</sup>	APHA 21 <sup>st</sup>
29	Bio-assay test	NA	90% survival of fish after 96 hrs in 100% effluent	IS 6562 (Part-1)
30	Manganese as Mn (mg/l), Max	<0.01	2	APHA 3030K
31	Iron as Fe (mg/l), Max	<0.05	3	APHA 3030K
32	Vanadium as V (mg/l), Max	<0.01	0.2	APHA 3030K
33	Nitrate Nitrogen (mg/l), Max	<0.1	10	IS 3025 (P-34) 1988 RA 2019
34	Fixed Dissolved Solids (FDS) mg/l	2250	—	IS 3025(P-18) 2022
35	Chlorides (as Cl), mg/l	1400	—	IS 3025 (P-32) 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	: 14.01.2025
Issue Date	: 25.01.2025
Ref : IS : 2296 Water Quality Standards	

Sl. No.	Lab Code	N/25/01/03-0383	N/25/01/03-0384	N/25/01/03-0385	Limits For Stream Water Standards	Method of Testing
	Sample Code	SW2	SW3	SW4		
	Parameters	Results				
1	Colour (Hazen Units)	3	1	1	300	IS:3025(Part-4)2021
2	pH	7.37	6.85	5.66	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O <sub>2</sub> ), mg/l	5.8	5.5	5.7	Min 4	IS:3025(Part-36)1989RA 2019
4	Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l	<3	<3	<3	3	IS:3025(P-44) 2014
5	Total Coliform (MPN/100ml)	340	225	180	5000	IS:1622:1981
6	Total Dissolved Solids, (mg/l)	310	325	155	1500	IS:3025(Part-16)2023
7	Oil & Grease, mg/l	<0.1	<0.1	<0.1	0.1	IS:3025(Part 39)2021
8	Chloride (as Cl),mg/l	150.0	170	75	600	IS:3025(Part-32) ,1988RA2019
9	Sulphates as SO <sub>4</sub> (mg/l)	52.0	60	16	400	IS:3025(P-24)Sec 1 2022
10	Nitrates (as NO <sub>3</sub> ),mg/l	4.50	5.20	1.90	50	IS:3025(Part-34)1988 RA 2019
11	Fluoride (as F),mg/l	0.26	0.20	<0.1	1.5	APHA 23rd Edition 4500F
12	Copper (as Cu),mg/l	<0.005	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
13	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	50	IS:3025(P-2) 2019
14	Zinc (as Zn),mg/l	<0.005	<0.005	<0.005	15	IS:3025(P-2) 2019
15	Total Arsenic (as As), (mg/l)	<0.002	<0.002	<0.002	0.2	IS:3025(Part-37)
16	Lead (as Pb), mg/l	<0.005	<0.005	<0.005	0.1	IS:3025(P-2) 2019
17	Cadmium (as Cd), mg/l,	<0.001	<0.001	<0.001	0.01	IS:3025(P-2) 2019
18	Hexavalent Chromium (as Cr <sup>+6</sup> ), mg/l,	<0.03	<0.03	<0.03	0.05	IS:3025(P-52) 2014
19	Selenium (as Se), mg/l	<0.005	<0.005	<0.005	0.05	IS:3025(P-2) 2019
20	Cyanide (as CN), mg/l,	<0.005	<0.005	<0.005	0.05	IS:3025(P-27) Sec 1 2021
21	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH),mg/l	<0.001	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
22	Anionic detergents (as MBAS),mg/l,	<0.1	<0.1	<0.1	1.0	IS:3025(Part-68)

"END OF REPORT"

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## TEST REPORT

Table No. 13


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	: GW1 - Tiroda village open well, GW2 - Redi village open well					
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)					
Date of sample collection	: 14.01.2025					
Date of sample receipt	: 15.01.2025					
Issue Date	: 25.01.2025					
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Lab Code	N/25/01/03-0388		N/25/01/03-0387			
Sl. No.	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
		GW1	GW2			
1	Colour (Hazen Units), Max	1	2	5	15	IS:3025 (P-4)2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH	5.71	6.54	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 (µmhos/cm)	60.0	570.0	-	-	IS:3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	32.0	318.0	500	2000	IS:3025 (P-18)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	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-88)
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	2.40	18.00	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	16.00	65.00	250	1000	IS:3025 (P-32)1988 RA 2019
16	Fluoride (as F),mg/l, Max	<0.1	0.20	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	<2	12.10	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	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23	Nitrates (as NO <sub>3</sub> ),mg/l, Max	1.0	4.5	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	1.4	54.0	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):1988 RA 2019
30	Alkalinity (as CaCO <sub>3</sub> ) mg/l, Max	4.0	95.0	200	600	IS:3025 (P-23):1986 RA 2019
31	Total Hardness (as CaCO <sub>3</sub> ),mg/l, Max	10.0	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 level in well from surface (m)	6.10	3.32	-	-	-

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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

Name of the Client : M/s. Gogte Minerals  
 Name of the Project : Redd Iron Ore Mine (203), village Redd, Venguria taluka, Sindhudurg dist, MH State.  
 Particulars of sample collected : GW3 -Shiroda village open well, GW4 - Kanyalwadi village open well,  
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)  
 Date of sample collection : 14.01.2025  
 Date of sample receipt : 15.01.2025  
 Issue Date : 25.01.2025  
 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
		GW3	GW4			
1	Colour (Hazen Units), Max	1	1	5	15	IS:3025 (P-4)2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH	6.85	6.10	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	2.5	3.8	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (umhos/cm)	400.0	175.0	--	--	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	216.0	95.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-56)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-67) 2021
13	Calcium (as Ca),mg/l, Max	24.00	6.41	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	45.00	34.00	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 Cl2, 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	8.50	2.92	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	5.6	4.2	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	30.0	13.5	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	110.0	24.0	200	600	IS:3025 (P-23)1986 RA 2019
31	Total Hardness (as CaCO <sub>3</sub> ),mg/l, Max	95.0	28.0	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)	2.33	0.60	--	--	--

"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, Vengurta 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 : 14.01.2025  
 Date of sample receipt : 15.01.2025  
 Issue Date : 25.01.2025  
 Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
		GW5	GW6			
1	Colour (Hazen Units), Max	1	1	5	15	IS:3025 (P-4)2021
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH	6.32	7.35	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	2.4	1.7	1	5	IS:3025 (P-10)1984 RA2017
6	Electrical Conductivity (µmhos/cm)	124.0	380.0	—	—	IS 3025 (P-14)
7	Total Dissolved Solids,mg/l, Max	66.0	205.0	500	2000	IS:3025 (P-16)1984 RA2017
8	Aluminium (as Al), Max	<0.005	<0.005	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	2.40	5.61	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	26.00	102.00	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-28)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	2.41	2.91	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-38) 2021
23	Nitrates (as NO <sub>3</sub> ),mg/l, Max	<0.1	1.1	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	6.5	32.0	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),1988 RA 2019
30	Alkalinity (as CaCO <sub>3</sub> ) mg/l, Max	14.0	10.0	200	600	IS:3025 (P-23),1988 RA 2019
31	Total Hardness (as CaCO <sub>3</sub> ),mg/l, Max	16.0	26.0	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)	11.63	—	—	—	—

"END OF REPORT"

BINU MANI

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## TEST REPORT

Table No. 16  
Report No : N0392250103

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, Maharashtra State.			
Particulars of sample collected	: Sewage Treatment Plant Water Sample			
Date of sample collection	: 14.01.2025			
Lab Code	: N/25/01/03-0392			
Issue Date	: 25.01.2025			
Ref	: Schedule -1 Sl.No-2 of CTO			
Sl. No.	Parameters	Results	Standards	Method of Testing
1	pH	7.22	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	25	<30	IS 3025 (P-44) 1993
3	Total Suspended Solids, at 105 <sup>o</sup> C, mg/l	63	<100	AOHA (23 <sup>rd</sup> Edition) 2540 - D
4	Fecal Coliform (FC), MPN/100ml	145	<1000	APHA 24 <sup>th</sup> Edition

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