

# ENVIRONMENTAL MONITORING REPORT

Project	<b>REDI IRON ORE MINE (Block -1)</b>
Location	Redi Village Vengurla Taluka, Sindudurg Dist Maharashtra
Client	M/s. GOGTE MINERALS
Office Address	BELAGAVI, KARNATAKA
Monitoring Month	<b>September -2025</b>

**ENVIRONMENTAL LABORATORY**  
**(Unit of Mineral Engineering Services LLP)**  
(Accredited by NABL & MoEF&CC Under E(P) Act 1986)  
#948, 2<sup>nd</sup> Cross, Kammanahalli Main Road,  
St Thomas Town Post,  
Bangalore- 560 084, Karnataka

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# ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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## TEST REPORT

Table No. 1

### 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 LLP)
Code & Station	: A1 - Core Zone Near Mine Office
Duration	: 24 Hrs
Issue Date	: 03.10.2025
Sampling & Test Method	: IS 5182 & Lab SOP

Date of Sampling	Report No	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>
05.09.2025	N018025091	6	9	41	22	<20	<1
06.09.2025	N004725092	8	<9	44	24	<20	<1
12.09.2025	N005025093	9	11	28	15	<20	<1
13.09.2025	N010525093	10	13	50	28	<20	<1
15.09.2025	N015225093	9	10	48	25	<20	<1
16.09.2025	N020625093	9	12	35	16	<20	<1
22.09.2025	N014425094	8	12	44	23	<20	<1
23.09.2025	N019425094	9	10	31	19	<20	<1
NAAQS 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	Report No	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>
05.09.2025	N018025091	0.09	<0.1	<0.5	<0.5	0.32	21
06.09.2025	N004725092	0.12	<0.1	<0.5	<0.5	0.28	24
12.09.2025	N005025093	0.15	<0.1	<0.5	<0.5	0.24	26
13.09.2025	N010525093	0.14	<0.1	<0.5	<0.5	0.33	23
15.09.2025	N015225093	0.10	<0.1	<0.5	<0.5	0.35	20
16.09.2025	N020625093	0.09	<0.1	<0.5	<0.5	0.24	28
22.09.2025	N014425094	0.11	<0.1	<0.5	<0.5	0.26	25
23.09.2025	N019425094	0.13	<0.1	<0.5	<0.5	0.28	26
NAAQS 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.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 LLP)
Code & Station	: A2 - Redi village
Duration	: 24 Hrs
Issue Date	: 03.10.2025
Sampling & Test Method	: IS 5182 & Lab SOP

Date of Sampling	Report No	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>
05.09.2025	N018125091	9	11	47	20	<20	<1
06.09.2025	N004825092	6	9	54	27	<20	<1
12.09.2025	N005125093	9	10	36	18	<20	<1
13.09.2025	N010625093	7	11	46	27	<20	<1
15.09.2025	N015325093	5	13	48	29	<20	<1
16.09.2025	N020725093	8	10	52	30	<20	<1
22.09.2025	N014525094	6	9	39	18	<20	<1
23.09.2025	N019525094	9	13	50	27	<20	<1
NAAQS 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	Report No	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>
05.09.2025	N018125091	0.09	<0.1	<0.5	<0.5	0.29	23
06.09.2025	N004825092	0.10	<0.1	<0.5	<0.5	0.22	21
12.09.2025	N005125093	0.12	<0.1	<0.5	<0.5	0.21	28
13.09.2025	N010625093	0.14	<0.1	<0.5	<0.5	0.24	24
15.09.2025	N015325093	0.15	<0.1	<0.5	<0.5	0.28	25
16.09.2025	N020725093	0.10	<0.1	<0.5	<0.5	0.23	29
22.09.2025	N014525094	0.13	<0.1	<0.5	<0.5	0.29	27
23.09.2025	N019525094	0.12	<0.1	<0.5	<0.5	0.25	22
NAAQS 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 LLP)
Code & Station	: A3 - Shiroda village
Duration	: 24 Hrs
Issue Date	: 03.10.2025
Sampling & Test Method	: IS 5182 & Lab SOP

Date of Sampling	Report No	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>
05.09.2025	N018225091	7	11	44	24	<20	<1
06.09.2025	N004925092	7	9	40	22	<20	<1
12.09.2025	N005225093	6	9	33	19	<20	<1
13.09.2025	N010725093	9	12	41	26	<20	<1
15.09.2025	N015425093	7	10	53	27	<20	<1
16.09.2025	N020825093	8	11	45	28	<20	<1
22.09.2025	N014625094	6	9	40	25	<20	<1
23.09.2025	N019625094	9	13	38	22	<20	<1
NAAQS 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	Report No	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>
05.09.2025	N018225091	0.19	<0.1	<0.5	<0.5	0.31	20
06.09.2025	N004925092	0.12	<0.1	<0.5	<0.5	0.23	23
12.09.2025	N005225093	0.21	<0.1	<0.5	<0.5	0.25	25
13.09.2025	N010725093	0.25	<0.1	<0.5	<0.5	0.22	20
15.09.2025	N015425093	0.28	<0.1	<0.5	<0.5	0.20	28
16.09.2025	N020825093	0.13	<0.1	<0.5	<0.5	0.21	21
22.09.2025	N014625094	0.24	<0.1	<0.5	<0.5	0.27	26
23.09.2025	N019625094	0.11	<0.1	<0.5	<0.5	0.36	20
NAAQS 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 LLP)
Code & Station	: A4 - Gaontala village
Duration	: 24 Hrs
Issue Date	: 03.10.2025
Sampling & Test Method	: IS 5182 & Lab SOP

Date of Sampling.	Report No	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>
05.09.2025	N018325091	7	11	50	29	<20	<1
06.09.2025	N005025092	10	12	45	22	<20	<1
12.09.2025	N005325093	5	9	39	14	<20	<1
13.09.2025	N010825093	8	12	43	26	<20	<1
15.09.2025	N015525093	9	10	38	19	<20	<1
16.09.2025	N020925093	11	9	37	20	<20	<1
22.09.2025	N014725094	6	9	40	22	<20	<1
23.09.2025	N019725094	7	10	42	24	<20	<1
NAAQS 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	Report No	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>
05.09.2025	N018325091	0.16	<0.1	<0.5	<0.5	0.25	21
06.09.2025	N005025092	0.25	<0.1	<0.5	<0.5	0.22	25
12.09.2025	N005325093	0.13	<0.1	<0.5	<0.5	0.28	23
13.09.2025	N010825093	0.21	<0.1	<0.5	<0.5	0.31	25
15.09.2025	N015525093	0.18	<0.1	<0.5	<0.5	0.25	21
16.09.2025	N020925093	0.13	<0.1	<0.5	<0.5	0.26	20
22.09.2025	N014725094	0.21	<0.1	<0.5	<0.5	0.28	28
23.09.2025	N019725094	0.25	<0.1	<0.5	<0.5	0.35	22
NAAQS 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 LLP)
Code & Station	: A5 - Kanyalwadi village
Duration	: 24 Hrs
Issue Date	: 03.10.2025
Sampling & Test Method	: IS 5182 & Lab SOP

Date of Sampling	Report No	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>
05.09.2025	N018425091	5	9	35	19	<20	<1
06.09.2025	N005125092	9	12	50	27	<20	<1
12.09.2025	N005425093	5	10	36	20	<20	<1
13.09.2025	N010925093	10	12	38	23	<20	<1
15.09.2025	N015625093	9	11	45	27	<20	<1
16.09.2025	N021025093	10	13	40	24	<20	<1
22.09.2025	N014825094	7	12	34	16	<20	<1
23.09.2025	N019825094	9	11	51	28	<20	<1
NAAQS 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	Report No	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>
05.09.2025	N018425091	0.13	<0.1	<0.5	<0.5	0.23	25
06.09.2025	N005125092	0.28	<0.1	<0.5	<0.5	0.22	21
12.09.2025	N005425093	0.31	<0.1	<0.5	<0.5	0.25	26
13.09.2025	N010925093	0.22	<0.1	<0.5	<0.5	0.32	28
15.09.2025	N015625093	0.25	<0.1	<0.5	<0.5	0.26	23
16.09.2025	N021025093	0.21	<0.1	<0.5	<0.5	0.25	21
22.09.2025	N014825094	0.20	<0.1	<0.5	<0.5	0.32	25
23.09.2025	N019825094	0.19	<0.1	<0.5	<0.5	0.25	23
NAAQS 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 LLP)					
Code & Station : A6 - Near NIMCO Gate - Tivrewadi, Redi village					
Duration : 24 Hrs					
Issue Date : 03.10.2025					
Sampling & Test Method : IS 5182 & Lab SOP					
Date of Sampling	Report No	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> )
05.09.2025	N018525091	7	10	40	22
06.09.2025	N005225092	10	12	44	24
12.09.2025	N005525093	7	10	37	21
13.09.2025	N011025093	4	9	46	27
15.09.2025	N015725093	6	<9	54	29
16.09.2025	N021125093	7	11	34	17
22.09.2025	N014925094	9	10	39	21
23.09.2025	N019925094	10	11	35	15
NAAQS 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. 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 LLP)				
Code & Station	: A7 - Near Primary School - sakalbhatwadi Redi village				
Duration	: 24 Hrs				
Issue Date	: 03.10.2025				
Sampling & Test Method	: IS 5182 & Lab SOP				
Date of Sampling	Report No	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> )
05.09.2025	N018625091	7	9	36	18
06.09.2025	N005325092	5	10	35	17
12.09.2025	N005625093	4	9	40	24
13.09.2025	N011125093	8	9	41	22
15.09.2025	N015825093	4	<9	42	24
16.09.2025	N021225093	7	9	50	27
22.09.2025	N015025094	5	12	40	25
23.09.2025	N020025094	9	13	43	22
NAAQS 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

### STATISTICAL AIR QUALITY DATA

Name of the Client : M/s. Gogte Minerals												
Name of the Project : Redi Iron Ore Mine (203)												
Month : September, 2025												
	A1 - A1 - Core Zone Near Mine Office				A2 - Redi village				A3 - 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	28	15	5	9	36	18	6	9	33	19
10%	7	10	30	16	6	9	38	18	6	9	37	21
25%	8	10	34	18	6	10	44	20	7	9	40	22
50%	9	11	43	23	8	11	48	27	7	11	41	25
75%	9	12	45	24	9	12	51	28	8	11	44	26
98%	10	13	50	28	9	13	54	30	9	13	52	28
Max.	10	13	50	28	9	13	54	30	9	13	53	28
Avg.	9	11	40	22	7	11	47	25	7	11	42	24
SD	1	1	8	5	2	2	6	5	1	2	6	3
No. of obs	8				8				8			
	A4 - Gaontala village				A5 - 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.	5	9	37	14	5	9	34	16				
10%	6	9	38	18	5	10	35	18				
25%	7	9	39	20	7	11	36	20				
50%	8	10	41	22	9	12	39	24				
75%	9	11	44	25	9	12	46	27				
98%	11	12	49	29	10	13	51	28				
Max.	11	12	50	29	10	13	51	28				
Avg.	8	10	42	22	8	11	41	23				
SD	2	1	4	5	2	1	7	4				
No. of obs	8				8							

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## TEST REPORT

Table No.9

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203)			
Location	: Redi village, Vengurla taluka, Sindhudurg dist, Maharashtra State.			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Nature of Sample	: Surface Water			
Sample Location	: W1 - Pit water			
Date of sample collection	: 09.09.2025			
Date of sample receipt	: 10.09.2025			
Report No	: M005025092			
Issue Date	: 03.10.2025			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
	Sample code	W1		
Sl. No.	Parameters	Results	Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	1	--	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max	22	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	6.23	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 (Part 9) 2023
6	Oil & Grrase (mg/l), Max	<4.0	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 Sec 1 ) 2023
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.1	100	IS 3025 (P-34 Sec 1 ) 2023
10	Free Ammonia as NH <sub>3</sub> (mg/l), Max	<0.01	5.0	IS 3025 (P-34 Sec 1 ) 2023
11	BOD [3 days at 27°C] (mg/l), Max	<3.0	30	IS 3025 (Part 44) 2023
12	COD (mg/l), Max	18	250	IS 3025 (Part 58) 2023
13	Arsenic as As (mg/l), Max	<0.05	0.2	APHA 24th Ed.Method No.3030K
14	Mercury as Hg (mg/l), Max	<0.001	0.01	APHA 24th Ed.Method No.3030K
15	Lead as Pb (mg/l), Max	<0.05	0.1	APHA 24th Ed.Method No.3030K
16	Cadmium as Cd (mg/l), Max	<0.01	2.0	APHA 24th Ed.Method No.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 24th Ed.Method No.3030K
19	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 24th Ed.Method No.3030K
20	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 24th Ed.Method No.3030K
21	Selenium as Se (mg/l), Max	<0.05	0.05	APHA 24th Ed.Method No.3030K
22	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 24th Ed.Method No.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	0.12	2.0	APHA 24th Edition 4500F
25	Dissolved Phosphates as PO <sub>4</sub> (mg/l), Max	<0.1	5.0	IS 3025 (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	Manganese as Mn (mg/l), Max	<0.01	2	APHA 24th Ed.Method No.3030K
29	Iron as Fe (mg/l), Max	<0.05	3	APHA 24th Ed.Method No.3030K
30	Vanadium as V (mg/l), Max	<0.01	0.2	APHA 24th Ed.Method No.3030K
31	Nitrate Nitrogen (mg/l), Max	8	10	IS 3025 (P-34) 1988 RA 2019

""END OF REPORT""

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## TEST REPORT

Table No. 10

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
Location	: Redi village, Vengurla taluka, Sindhudurg dist, Maharashtra State.
Particulars of sample collected	: W2 - Pit Discharge water, W3 - Runoff water from dump
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Date of sample collection	: 09.09.2025
Date of sample receipt	: 10.09.2025
Issue Date	: 03.10.2025
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI

Report No		-		-		Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
Sl. No.	Sample code	W2	W3	Results			
Parameters							
1	Colour (Hazen Units), & Odour					--	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max					100	IS 3025 (P-17) 2022
3	Particle size of suspended solids					Shall Pass through 850 micron	AOHA 23rd edition
4	pH					5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C					Shall not exceed 5°C above the receiving water temp	IS 3025 (Part 9) 2023
6	Oil & Grrase (mg/l), Max					10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l), Max					1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l), Max					50	IS 3025 (P-34 Sec 1 ) 2023
9	Total Kjeldahl Nitrogen (mg/l), Max					100	IS 3025 (P-34 Sec 1 ) 2023
10	Free Ammonia as NH <sub>3</sub> (mg/l), Max					5.0	IS 3025 (P-34 Sec 1 ) 2023
11	BOD [3 days at 27°C] (mg/l), Max					30	IS 3025 (Part 44) 2023
12	COD (mg/l), Max					250	IS 3025 (Part 58) 2023
13	Arsenic as As (mg/l), Max					0.2	APHA 24th Ed.Method No.3030K
14	Mercury as Hg (mg/l), Max					0.01	APHA 24th Ed.Method No.3030K
15	Lead as Pb (mg/l), Max	No Discharge	No Runoff			0.1	APHA 24th Ed.Method No.3030K
16	Cadmium as Cd (mg/l), Max					2.0	APHA 24th Ed.Method No.3030K
17	Hexavalent Chromium as Cr <sup>+6</sup> (mg/l), Max					0.1	IS 3025 (P-52) 2014
18	Total Chromium as Cr(mg/l), Max					2.0	APHA 24th Ed.Method No.3030K
19	Copper as Cu (mg/l), Max					3.0	APHA 24th Ed.Method No.3030K
20	Zinc as Zn (mg/l), Max					5.0	APHA 24th Ed.Method No.3030K
21	Selenium as Se (mg/l), Max					0.05	APHA 24th Ed.Method No.3030K
22	Nickel as Ni (mg/l), Max					3.0	APHA 24th Ed.Method No.3030K
23	Cyanide as CN (mg/l), Max					0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l), Max					2.0	APHA 24th Edition 4500F
25	Dissolved Phosphates as PO <sub>4</sub> (mg/l), Max					5.0	IS 3025 (P-31) Sec 1 2022
26	Sulphide as S (mg/l), Max					2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH (mg/l), Max					1.0	IS 3025 (P-43) Sec 1 2022
28	Manganese as Mn (mg/l), Max					2	APHA 24th Ed.Method No.3030K
29	Iron as Fe (mg/l), Max					3	APHA 24th Ed.Method No.3030K
30	Vanadium as V (mg/l), Max					0.2	APHA 24th Ed.Method No.3030K
31	Nitrate Nitrogen (mg/l), Max					10	IS 3025 (P-34) 1988 RA 2019

""END OF REPORT""

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## TEST REPORT

Table No. 11

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
Location	: Redi village, Vengurla taluka, Sindhudurg dist, Maharashtra State.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Nature of Sample	: Surface Water
Sample Location	: SW1 - Kanyal tank water, SW2 - Nallah water Near Kanyalwadi SW3- Near Hanuman temple Kanyalwadi village
Date of sample collection	: 09.09.2025
Date of sample receipt	: 10.09.2025
Issue Date	: 03.10.2025
Ref : IS : 2296 Water Quality Standards	

Sl. No.	Report No	M005225092	M005325092	M005425092	Limits	Method of Testing
	Sample Code	SW1	SW2	SW3		
	Parameters	Results				
1	Colour (Hazen Units)	1	1	<1	300	IS 3025 (Part 4) 2021
2	pH	6.70	6.71	6.56	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O <sub>2</sub> ), mg/l	5.80	5.70	5.80	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l	<3	<3	<3	Max 3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	95	78	103	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	120	184	102	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	47.0	54.0	21.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO <sub>4</sub> (mg/l)	24.0	28.0	16.0	400	APHA (24th Edition ):4110B
9	Nitrates (as NO <sub>3</sub> ),mg/l	1.80	3.50	2.00	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	<0.1	<0.1	<0.1	1.5	IS 3025 (Part 60-Sec1) 2023
11	Copper (as Cu),mg/l	<0.0005	<0.0005	<0.0005	1.5	IS 3025 (Part 65) 2022
12	Iron (as Fe),mg/l	<0.005	<0.005	<0.005	50	IS 3025 (Part 65) 2022
13	Zinc (as Zn),mg/l	<0.005	<0.005	<0.005	15	IS 3025 (Part 65) 2022
14	Total Arsenic (as As), (mg/l)	<0.0005	<0.0005	<0.0005	0.2	IS 3025 (Part 65) 2022
15	Lead (as Pb), mg/l	<0.0005	<0.0005	<0.0005	0.1	IS 3025 (Part 65) 2022
16	Cadmium (as Cd), mg/l,	<0.0005	<0.0005	<0.0005	0.01	IS 3025 (Part 65) 2022
17	Hexavalent Chromium (as Cr <sup>+6</sup> ), mg/l	<0.03	<0.03	<0.03	0.05	IS 3025 (Part 52):2019 RA 2023
18	Selenium (as Se), mg/l	<0.0005	<0.0005	<0.0005	0.05	IS 3025 (Part 65) 2022
19	Cyanide (as CN), mg/l,	<0.01	<0.01	<0.01	0.05	IS 3025 (Part 27/Sec1) 2021
20	Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH),mg/l	<0.001	<0.001	<0.001	0.005	IS 3025 (Part 43/Sec1) 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	<0.1	<0.1	1.0	IS 3025 (Part 68) 2023

Note : Class-C: Drinking water with conventional treatment followed by disinfection.

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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)		
Particulars of sample collected		: STP1 - Sewage Treatment Plant		
Date of sample collection		: 09.09.2025		
Date of sample receipt		: 10.09.2025		
Report no		: M005525092		
Issue Date		: 03.10.2025		
Ref		:Schedule -1 SI.No-2 of CTO		
Sample code		STP1		
Sl. No.	Parameters	Results	Standards	Method of Testing
1	pH	6.48	-	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand BOD <sub>5</sub> 27 <sup>o</sup> C, mg/l	35	<100	IS 3025 (Part 44) 2023
3	Total Suspended Solids, at 105 <sup>o</sup> C, mg/l	57	<100	IS 3025 (P-17) 2022

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