ENVIRONMENTAL MONITORING REPORT

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

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services LLP)

(Accredited by NABL & MoEF&CC Under E(P) Act 1986)

#948, 2nd 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 : 05.09.2025
Sampling & Test Method : IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.08.2025	N013325082	8	10	32	16	<20	<1
07.08.2025	N017425082	10	13	39	20	<20	<1
15.08.2025	N029825083	9	9	37	19	<20	<1
16.08.2025	N002725084	7	10	28	15	<20	<1
22.08.2025	N021325084	9	9	44	20	<20	<1
23.08.2025	N005725085	11	13	45	23	<20	<1
25.08.2025	N012825085	10	11	41	21	<20	<1
26.08.2025	N020625085	11	12	38	18	<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^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.08.2025	N013325082	0.22	<0.1	<0.5	<0.5	0.27	21
07.08.2025	N017425082	0.19	<0.1	<0.5	<0.5	0.23	26
15.08.2025	N029825083	0.11	<0.1	<0.5	<0.5	0.21	27
16.08.2025	N002725084	<0.1	<0.1	<0.5	<0.5	0.22	27
22.08.2025	N021325084	0.10	<0.1	<0.5	<0.5	0.28	25
23.08.2025	N005725085	0.14	<0.1	<0.5	<0.5	0.24	21
25.08.2025	N012825085	0.11	<0.1	<0.5	<0.5	0.33	25
26.08.2025	N020625085	0.17	<0.1	<0.5	<0.5	0.21	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

ARSHIYA KOUSAR
Dy TM - 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 LLP)
Code & Station : A2 - Redi village
Duration : 24 Hrs
Issue Date : 05.09.2025
Sampling & Test Method : IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.08.2025	N013425082	10	12	41	20	<20	<1
07.08.2025	N017525082	9	10	30	16	<20	<1
15.08.2025	N029925083	7	9	36	19	<20	<1
16.08.2025	N002825084	4	10	40	21	<20	<1
22.08.2025	N021425084	11	11	32	17	<20	<1
23.08.2025	N005825085	5	11	36	21	<20	<1
25.08.2025	N012925085	8	13	42	22	<20	<1
26.08.2025	N020725085	11	11	52	29	<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^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.08.2025	N013425082	0.13	<0.1	<0.5	<0.5	0.25	23
07.08.2025	N017525082	0.10	<0.1	<0.5	<0.5	0.34	27
15.08.2025	N029925083	<0.1	<0.1	<0.5	<0.5	0.21	28
16.08.2025	N002825084	0.11	<0.1	<0.5	<0.5	0.20	22
22.08.2025	N021425084	0.15	<0.1	<0.5	<0.5	0.23	20
23.08.2025	N005825085	0.18	<0.1	<0.5	<0.5	0.22	25
25.08.2025	N012925085	0.13	<0.1	<0.5	<0.5	0.25	22
26.08.2025	N020725085	0.11	<0.1	<0.5	<0.5	0.31	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. 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	: 05.09.2025
Sampling & Test Method : IS 5182 & Lab SOP	

Date of Sampling	Report No	Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.08.2025	N013525082	7	10	48	24	<20	<1
07.08.2025	N017625082	10	12	35	19	<20	<1
15.08.2025	N030025083	12	9	37	18	<20	<1
16.08.2025	N002925084	4	9	25	15	<20	<1
22.08.2025	N021525084	6	10	40	25	<20	<1
23.08.2025	N005925085	5	13	37	17	<20	<1
25.08.2025	N013025085	7	11	48	28	<20	<1
26.08.2025	N020825085	8	12	45	25	<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^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.08.2025	N013525082	0.17	<0.1	<0.5	<0.5	0.21	24
07.08.2025	N017625082	0.22	<0.1	<0.5	<0.5	0.20	20
15.08.2025	N030025083	0.15	<0.1	<0.5	<0.5	<0.2	21
16.08.2025	N002925084	0.19	<0.1	<0.5	<0.5	0.21	20
22.08.2025	N021525084	0.10	<0.1	<0.5	<0.5	0.22	22
23.08.2025	N005925085	0.11	<0.1	<0.5	<0.5	0.20	24
25.08.2025	N013025085	0.14	<0.1	<0.5	<0.5	0.25	25
26.08.2025	N020825085	<0.1	<0.1	<0.5	<0.5	0.29	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. 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	: 05.09.2025
Sampling & Test Method : IS 5182 & Lab SOP	

Date of Sampling	Report No	Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.08.2025	N013625082	8	10	42	24	<20	<1
07.08.2025	N017725082	9	13	39	28	<20	<1
15.08.2025	N030125083	5	9	37	26	<20	<1
16.08.2025	N003025084	7	10	33	27	<20	<1
22.08.2025	N021625084	9	13	48	26	<20	<1
23.08.2025	N006025085	10	11	42	23	<20	<1
25.08.2025	N013125085	11	12	34	22	<20	<1
26.08.2025	N020925085	12	12	36	21	<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^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.08.2025	N013625082	0.15	<0.1	<0.5	<0.5	<0.2	21
07.08.2025	N017725082	0.19	<0.1	<0.5	<0.5	0.21	26
15.08.2025	N030125083	0.11	<0.1	<0.5	<0.5	0.22	27
16.08.2025	N003025084	0.14	<0.1	<0.5	<0.5	<0.2	28
22.08.2025	N021625084	0.12	<0.1	<0.5	<0.5	0.20	21
23.08.2025	N006025085	0.11	<0.1	<0.5	<0.5	0.22	22
25.08.2025	N013125085	0.10	<0.1	<0.5	<0.5	0.26	25
26.08.2025	N020925085	<0.1	<0.1	<0.5	<0.5	0.22	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. 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	:	05.09.2025

Sampling & Test Method : IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)	Ammonia (NH_3), µg/m^3	Benzene (C_6H_6), µg/m^3
06.08.2025	N013725082	9	9	43	22	<20	<1
07.08.2025	N017825082	8	13	38	21	<20	<1
15.08.2025	N030225083	6	12	35	20	<20	<1
16.08.2025	N003125084	7	11	31	17	<20	<1
22.08.2025	N021725084	5	10	38	15	<20	<1
23.08.2025	N006125085	4	9	44	22	<20	<1
25.08.2025	N013225085	9	13	45	20	<20	<1
26.08.2025	N021025085	8	11	33	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^3	Nickel (Ni), ng/m^3	Arsenic (As), ng/m^3	Benzo(a) Pyrene (BaP), ng/m^3	Carbon Monoxide* (CO), mg/m^3	Ozone* (O_3), µg/m^3
06.08.2025	N013725082	0.12	<0.1	<0.5	<0.5	0.25	21
07.08.2025	N017825082	0.15	<0.1	<0.5	<0.5	0.21	29
15.08.2025	N030225083	0.19	<0.1	<0.5	<0.5	0.33	28
16.08.2025	N003125084	0.21	<0.1	<0.5	<0.5	0.25	28
22.08.2025	N021725084	0.10	<0.1	<0.5	<0.5	0.21	27
23.08.2025	N006125085	0.13	<0.1	<0.5	<0.5	0.28	25
25.08.2025	N013225085	0.14	<0.1	<0.5	<0.5	<0.2	21
26.08.2025	N021025085	0.11	<0.1	<0.5	<0.5	0.21	25
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	: 05.09.2025

Sampling & Test Method : IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)
06.08.2025	N013825082	8	12	28	18
07.08.2025	N017925082	6	12	41	20
15.08.2025	N030325083	7	10	30	17
16.08.2025	N003225084	4	<9	36	24
22.08.2025	N021825084	5	9	47	25
23.08.2025	N006225085	9	10	43	21
25.08.2025	N013325085	10	9	41	24
26.08.2025	N021125085	12	11	49	26
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	: 05.09.2025
Sampling & Test Method : IS 5182 & Lab SOP	

Date of Sampling	Report No	Sulphur Dioxide (SO_2), µg/m^3	Nitrogen Dioxide (NO_2), µg/m^3	PM_{10}, (µg/m^3)	$PM_{2.5}$, (µg/m^3)
06.08.2025	N013925082	9	12	38	17
07.08.2025	N018025082	12	11	40	23
15.08.2025	N030425083	5	9	34	21
16.08.2025	N003325084	<4	9	28	15
22.08.2025	N021925084	7	11	48	26
23.08.2025	N006325085	8	10	40	24
25.08.2025	N013425085	6	9	30	18
26.08.2025	N021225085	10	14	45	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 : August, 2025

	A1 - A1 - Core Zone Near Mine Office				A2 - Redi village				A3 - Shiroda village			
	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$
Min.	7	9	28	15	4	9	30	16	4	9	25	15
10%	8	9	31	16	5	10	31	17	5	9	32	16
25%	9	10	36	18	7	10	35	19	6	10	37	18
50%	10	11	39	20	9	11	38	21	7	11	39	22
75%	10	12	42	20	10	11	41	21	9	12	46	25
98%	11	13	45	23	11	13	51	28	12	13	48	28
Max.	11	13	45	23	11	13	52	29	12	13	48	28
Avg.	9	11	38	19	8	11	39	21	7	11	39	21
SD	1	2	6	3	3	1	7	4	3	1	8	5
No. of obs	8				8				8			

	A4 - Gaontala village				A5 - Kanyalwadi village			
	SO_2	NO_2	PM_{10}	$PM_{2.5}$	SO_2	NO_2	PM_{10}	$PM_{2.5}$
Min.	5	9	33	21	4	9	31	15
10%	6	10	34	22	5	9	32	16
25%	8	10	36	23	6	10	35	19
50%	9	12	38	25	8	11	38	20
75%	10	12	42	26	8	12	43	21
98%	12	13	47	28	9	13	45	22
Max.	12	13	48	28	9	13	45	22
Avg.	9	11	39	25	7	11	38	20
SD	2	1	5	3	2	2	5	2
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	: 13.08.2025
Date of sample receipt	: 14.08.2025
Report No	: M001025083
Issue Date	: 05.09.2025
Ref	*: Environmental (P) Rules, 1986 SCHEDULE VI*

Sample code		W1		
Sl. No.	Parameters	Results	Standards For Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	3	--	IS:3025 (P-4)
2	Suspended Solids (mg/l), Max	20	100	IS 3025 (P-17) 2022
3	Particle size of suspended solids	Pass through 850 micron	Shall Pass through 850 micron	APHA 23rd edition
4	pH	6.13	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C	25	Shall not exceed 5^0 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_3 (mg/l), Max	<0.01	5.0	IS 3025 (P-34 Sec 1) 2023
11	BOD [3 days at 27^0C] (mg/l), Max	<3.0	30	IS 3025 (Part 44) 2023
12	COD (mg/l), Max	25	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^{+6} (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	0.41	2.0	APHA 24th Edition 4500F
25	Dissolved Phosphates as PO_4 (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_6H_5OH (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) 1986 RA 2019

""END OF REPORT"

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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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.
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Nature Sample	: Surface water
Sample Location	: W2 - Pit Discharge water, W3 - Runoff water from dump
Date of sample collection	: 13.08.2025
Date of sample receipt	: 14.08.2025
Issue Date	: 05.09.2025
Ref	*: Environmental (P) Rules, 1986 SCHEDULE VI*

	Report No	-	M001125083	Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
	Sample code	W2	W3		
Sl. No.	Parameters	Results			
1	Colour (Hazen Units), & Odour	No Discharge	3	--	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max		16	100	IS 3025 (P-17) 2022
3	Particle size of suspended solids		Pass through 850 micron	Shall Pass through 850 micron	APHA 23rd edition
4	pH		6.34	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_3 (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		20	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^{+6} (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		0.11	2.0	APHA 24th Edition 4500F
25	Dissolved Phosphates as PO_4 (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_6H_5OH (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		1.2	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 Sample	: Surface water
Sample Location	: SW1 - Kanyal tank water, SW2 - Nallah water Near Kanyalwadi SW3- Near Hanuman temple Kanyalwadi village
Date of sample collection	: 13.08.2025
Date of sample receipt	: 14.08.2025
Issue Date	: 05.09.2025

Ref : IS : 2296 Water Quality Standards

Sl. No.	Report No	M001225083	M001325083	M001425083	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	6.75	6.56	6.52	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O_2), mg/l	5.70	5.60	5.80	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O_2), mg/l	<3	<3	<3	Max 3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	70	63	109	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	152	190	110	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	55.0	62.0	20.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO_4 (mg/l)	20.0	26.0	18.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO_3),mg/l	2.50	3.00	1.40	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^{+6}), 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_6H_5OH),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.

"'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)
Location	: Redi village, Vengurla taluka, Sindhudurg dist,Maharashtra State.
Sample Location	: STP1 - Sewage Treatment Plant
Date of sample collection	: 13.08.2025
Date of sample receipt	: 14.08.2025
Report no	: M001525083
Issue Date	: 05.09.2025
Ref	:Schedule -1 Sl.No-2 of CTO

Sample code		STP1		
Sl. No.	Parameters	Results	Standards	Method of Testing
1	pH	6.53	-	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand BOD_3 27^0 C, mg/l	30	<100	IS 3025 (Part 44) 2023
3	Total Suspended Solids, at 105^0C, mg/l	45	<100	IS 3025 (P-17) 2022

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