

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	November -2025

ENVIRONMENTAL LABORATORY **(Unit of Mineral Engineering Services LLP)**

Recognised by MoEF&CC Under E(P) Act 1986

&

Accredited by NABL

#948, 2nd Cross, Kammanahalli Main Road,

St Thomas Town Post,

Bangalore- 560 084, Karnataka

LIST OF TABLES

SL. NO.	PARTICULARS	TABLE NO.
1	Test Report of Fugitive Emission	1
2	Test Report of Ambient Air Quality	2 to 6
3	Test Report of Ambient Air Quality (Transportation Route)	7 & 8
4	Statistical Air Quality Data	9
5	Noise Level Data	10 & 11
6	Water Test Report As per Environmental (P) Rules, 1986 Schedule VI	12 & 13
7	Surface Water Test Report As per IS 2296	14
8	STP Water Test Report /	15



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 23.05.2028

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 LLP)						
Duration	: 08 Hrs						
Issue Date	: 03.12.2025						
Code & Station	Date of sample	Report no	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ (µg/m ³)	SPM (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
FA1- Near Dumping Area	14.11.2025	N032625113	12	15	146	285	0.42
	17.11.2025	N010525114	9	11	153	325	0.36
FA2 - Haulage road	15.11.2025	N004925114	13	18	162	385	0.46
	18.11.2025	N016225114	11	15	158	358	0.29
FA3 - Near Loading Area	14.11.2025	N032725113	7	9	130	258	0.33
	17.11.2025	N010625114	12	16	125	312	0.41
FA4 - Screening Area	15.11.2025	N005025114	13	17	166	366	0.46
	18.11.2025	N016325114	12	15	180	385	0.38
Within in Mining Area Pollutant			SO ₂	NO ₂	RPM (PM ₁₀)	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
Note : * Parameters monitored for period of 1 hr							

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in

Note : This report is subject to the terms and conditions mentioned overleaf.



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 23.05.2028

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 : A1 - Core Zone Near Mine Office
Duration : 24 Hrs
Issue Date : 03.12.2025
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 ₆ H ₆), µg/m ³
07.11.2025.	N019025112	7	11	46	26	<20	<1
08.11.2025	N007725113	9	12	55	30	<20	<1
14.11.2025	N031925113	12	14	52	27	<20	<1
15.11.2025	N004225114	9	11	48	25	<20	<1
17.11.2025	N009825114	9	12	46	22	<20	<1
18.11.2025	N015525114	10	14	50	28	<20	<1
24.11.2025	N011525115	7	10	53	29	<20	<1
25.11.2025	N017925115	9	12	49	26	<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
07.11.2025.	N019025112	0.21	<0.1	<0.5	<0.5	0.32	22
08.11.2025	N007725113	0.11	<0.1	<0.5	<0.5	0.25	22
14.11.2025	N031925113	0.15	<0.1	<0.5	<0.5	0.33	30
15.11.2025	N004225114	0.18	<0.1	<0.5	<0.5	0.28	23
17.11.2025	N009825114	0.13	<0.1	<0.5	<0.5	0.22	25
18.11.2025	N015525114	0.19	<0.1	<0.5	<0.5	0.29	24
24.11.2025	N011525115	0.27	<0.1	<0.5	<0.5	0.31	26
25.11.2025	N017925115	0.21	<0.1	<0.5	<0.5	0.42	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

Arushi Kousar
ARSHIYA KOUSAR
Dy TM - Chemical

Govt Analyst Authorized Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

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 : A2 - Redi village
Duration : 24 Hrs
Issue Date : 03.12.2025
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 ₆ H ₆), µg/m ³
07.11.2025.	N019125112	10	14	53	31	<20	<1
08.11.2025	N007825113	9	11	47	25	<20	<1
14.11.2025	N032025113	6	9	34	18	<20	<1
15.11.2025	N004325114	12	16	51	27	<20	<1
17.11.2025	N009925114	9	10	43	24	<20	<1
18.11.2025	N015625114	12	14	49	26	<20	<1
24.11.2025	N011625115	9	11	54	30	<20	<1
25.11.2025	N018025115	9	16	44	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 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
07.11.2025.	N019125112	0.13	<0.1	<0.5	<0.5	0.29	22
08.11.2025	N007825113	0.17	<0.1	<0.5	<0.5	0.33	26
14.11.2025	N032025113	0.21	<0.1	<0.5	<0.5	0.25	28
15.11.2025	N004325114	0.23	<0.1	<0.5	<0.5	0.21	24
17.11.2025	N009925114	0.15	<0.1	<0.5	<0.5	0.29	30
18.11.2025	N015625114	0.11	<0.1	<0.5	<0.5	0.21	23
24.11.2025	N011625115	0.17	<0.1	<0.5	<0.5	0.26	25
25.11.2025	N018025115	0.19	<0.1	<0.5	<0.5	0.32	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

Arshiya K Qusar
ARSHIYA K QUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

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 : A3 - Shiroda village
Duration : 24 Hrs
Issue Date : 03.12.2025
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 ₆ H ₆), µg/m ³
07.11.2025.	N019225112	7	9	38	19	<20	<1
08.11.2025	N007925113	9	11	45	26	<20	<1
14.11.2025	N032125113	9	12	40	22	<20	<1
15.11.2025	N004425114	6	9	36	18	<20	<1
17.11.2025	N010025114	9	11	53	27	<20	<1
18.11.2025	N015725114	10	14	43	23	<20	<1
24.11.2025	N011725115	9	10	47	26	<20	<1
25.11.2025	N018125115	7	11	37	20	<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
07.11.2025.	N019225112	0.28	<0.1	<0.5	<0.5	0.28	25
08.11.2025	N007925113	0.11	<0.1	<0.5	<0.5	0.42	22
14.11.2025	N032125113	0.15	<0.1	<0.5	<0.5	0.27	23
15.11.2025	N004425114	0.18	<0.1	<0.5	<0.5	0.26	28
17.11.2025	N010025114	0.12	<0.1	<0.5	<0.5	0.32	26
18.11.2025	N015725114	0.16	<0.1	<0.5	<0.5	0.28	22
24.11.2025	N011725115	0.19	<0.1	<0.5	<0.5	0.21	20
25.11.2025	N018125115	0.21	<0.1	<0.5	<0.5	0.33	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

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

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 : A4 - Gaontala village
Duration : 24 Hrs
Issue Date : 03.12.2025
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 ₆ H ₆), µg/m ³
07.11.2025.	N019325112	8	13	51	28	<20	<1
08.11.2025	N008025113	12	18	56	30	<20	<1
14.11.2025	N032225113	9	13	53	27	<20	<1
15.11.2025	N004525114	12	15	54	25	<20	<1
17.11.2025	N010125114	11	13	46	22	<20	<1
18.11.2025	N015825114	7	11	50	27	<20	<1
24.11.2025	N011825115	10	12	44	24	<20	<1
25.11.2025	N018225115	9	11	38	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
07.11.2025.	N019325112	0.22	<0.1	<0.5	<0.5	0.28	21
08.11.2025	N008025113	0.16	<0.1	<0.5	<0.5	0.26	23
14.11.2025	N032225113	0.13	<0.1	<0.5	<0.5	0.34	25
15.11.2025	N004525114	0.15	<0.1	<0.5	<0.5	0.28	22
17.11.2025	N010125114	0.21	<0.1	<0.5	<0.5	0.29	20
18.11.2025	N015825114	0.19	<0.1	<0.5	<0.5	0.31	21
24.11.2025	N011825115	0.14	<0.1	<0.5	<0.5	0.22	24
25.11.2025	N018225115	0.21	<0.1	<0.5	<0.5	0.35	28
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 K DUSAR
ARSHIYA K DUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

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 : A5 - Kanyalwadi village
Duration : 24 Hrs
Issue Date : 03.12.2025
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 ₆ H ₆), µg/m ³
07.11.2025.	N019425112	9	11	53	28	<20	<1
08.11.2025	N008125113	7	9	50	27	<20	<1
14.11.2025	N032325113	9	11	47	25	<20	<1
15.11.2025	N004625114	10	15	56	29	<20	<1
17.11.2025	N010225114	9	13	51	27	<20	<1
18.11.2025	N015925114	10	12	46	25	<20	<1
24.11.2025	N011925115	8	9	39	22	<20	<1
25.11.2025	N018325115	8	11	50	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 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
07.11.2025.	N019425112	0.11	<0.1	<0.5	<0.5	0.42	23
08.11.2025	N008125113	0.16	<0.1	<0.5	<0.5	0.33	25
14.11.2025	N032325113	0.18	<0.1	<0.5	<0.5	0.25	24
15.11.2025	N004625114	0.14	<0.1	<0.5	<0.5	0.21	28
17.11.2025	N010225114	0.23	<0.1	<0.5	<0.5	0.34	30
18.11.2025	N015925114	0.11	<0.1	<0.5	<0.5	0.46	26
24.11.2025	N011925115	0.15	<0.1	<0.5	<0.5	0.35	25
25.11.2025	N018325115	0.21	<0.1	<0.5	<0.5	0.29	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

Arshiya Housar
ARSHIYA HOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

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 : A6 - Near NIMCO Gate - Tivrewadi, Redi village					
Duration : 24 Hrs					
Issue Date : 06.12.2025					
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)
07.11.2025.	N019525112	11	18	56	28
08.11.2025	N008225113	10	12	54	25
14.11.2025	N032425113	12	15	57	30
15.11.2025	N004725114	9	13	52	27
17.11.2025	N010325114	10	12	50	26
18.11.2025	N016025114	9	13	48	23
24.11.2025	N012025115	10	15	44	23
25.11.2025	N018425115	12	14	55	30
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

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 LLP)					
Code & Station : A7 - Near Primary School - sakalbhatwadi Redi village					
Duration : 24 Hrs					
Issue Date : 06.12.2025					
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)
07.11.2025.	N019625112	9	10	56	28
08.11.2025	N008325113	11	15	53	26
14.11.2025	N032525113	12	16	49	27
15.11.2025	N004825114	10	12	43	25
17.11.2025	N010425114	11	15	52	28
18.11.2025	N016125114	7	13	45	30
24.11.2025	N012125115	9	11	33	20
25.11.2025	N018525115	10	13	51	28
NAAQS Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs


ARSHIYA KOUSAR
Dy-TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 9

STATISTICAL AIR QUALITY DATA

Name of the Client		: M/s. Gogte Minerals											
Name of the Project		: Redi Iron Ore Mine (203)											
Month		: November, 2025											
Code & Station	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	10	46	22	6	9	34	18	6	9	36	18	
10%	7	11	46	24	8	10	40	21	7	9	37	19	
25%	9	11	48	26	9	11	44	24	7	10	38	20	
50%	9	12	50	27	9	13	48	26	9	11	42	23	
75%	9	13	52	28	11	15	52	28	9	11	46	26	
98%	12	14	55	30	12	16	54	30	10	14	52	27	
Max.	12	14	55	30	12	16	54	31	10	14	53	27	
Avg.	9	12	50	27	10	13	47	25	8	11	42	23	
SD	2	1	3	3	2	3	7	4	1	2	6	3	
No. of obs	8				8				8				
Code & Station	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.	7	11	38	19	7	9	39	22					
10%	8	11	42	21	8	9	44	24					
25%	9	12	46	24	8	11	47	25					
50%	10	13	51	26	9	11	50	27					
75%	11	14	53	27	9	12	52	28					
98%	12	18	56	30	10	15	56	29					
Max.	12	18	56	30	10	15	56	29					
Avg.	10	13	49	25	9	11	49	26					
SD	2	2	6	4	1	2	5	2					
No. of obs	8				8								

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 10

NOISE LEVEL DATA

Report No ; ELMES072511

Report No. : EME30720

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203)			
Location	: Redi village, Venguria taluka, Sindhudurg dist, Maharashtra			
Particulars of sample collected	: Sound Levels			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Issue Date	: 03.12.2025			
Sampling & Test Method	: IS:9989			
Code No.	Monitoring stations	Date of Monitoring	Day	Night
			L _{eq}	L _{eq}
Bufferzone				
N1	Redi village	14.11.2025	50.2	42.1
N2	Gaontala village	14.11.2025	49.3	40.2
N3	Kanyalwadi village	14.11.2025	48.5	40.9
N4	Shiroda village	15.11.2025	46.8	41.3
N5	Tiroda village	15.11.2025	46.7	39.7
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines				
			Leq. Limit dB(A)	
			Day	Night
Residential area			55	45
Code No.	Monitoring stations	Date of Monitoring	Day	Night
			L _{eq}	L _{eq}
Bufferzone				
N6	Near NIMCO Gate - Tivrewadi, Redi village	15.11.2025	62.5	48.2
N7	Near Primary School - sakalbhatwadi, Redi village	15.11.2025	58.3	45.1
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines				
			Leq. Limit dB(A)	
			Day	Night
Commercial area			65	55
Code No.	Monitoring stations	Date of Monitoring	Day	Night
			L _{eq}	L _{eq}
Corezone				
N8	Near Mine office	17.11.2025	68.2	51.8
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines				
			Leq. Limit dB(A)	
			Day	Night
Industrial areas			75	70

Arshiya Housar
ARSHIYA HOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 11

NOISE LEVEL DATA

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
Location	: Redi village, Vengurla taluka, Sindhudurg dist, Maharashtra
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Issue Date	: 03.12.2025
Sampling & Test Method	: IS:9989

Code No.	Monitoring stations	Date of Monitoring	Day L _{eq}	Remarks
----------	---------------------	--------------------	------------------------	---------

Heavy Earth Moving Machineries

N1	Dozer Komatsu D20017	17.11.2025	62.5	During operation inside of the cabin
			65.2	During operation 5mts outside of the cabin
N2	Excavator 0092 PC 300LC	17.11.2025	58.2	During operation inside of the cabin
			60.2	During operation 5mts outside of the cabin
N3	Wheel Loader WL- 0048	17.11.2025	57.2	During operation inside of the cabin with AC
			64.2	During operation 5mts outside of the cabin
N4	Excavator Volvo-EC350D	17.11.2025	60.2	During operation inside of the cabin with AC
			66.3	During operation 5mts outside of the cabin
N5	Screening Plant	17.11.2025	72.3	During operation 5mts outside of the cabin

Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Warning limit - 85 dB(A)

Danger limit - 90 dB(A)

Worker not to be exposed for more than 115 dB(A)

With ear protection -

130 dB(A) 'Impulse' or 120 dB(A) 'Fast'

No entry when noise level exceeds 140 dB(A)

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No.12

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
Location	: Rodi 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	: 16.11.2025
Date of sample receipt	: 17.11.2025
Report No	: M002225114
Issue Date	: 03.12.2025
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI

SL No.	Parameters	Results	Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	3	—	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max	15	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	6.50	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 & Grease (mg/l), Max	<4.0	10	IS 3025 (P-38) 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	24	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 ^{VI} (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	<0.1	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-20) 2022
27	Phenolic Compounds as C ₆ H ₅ 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	3.5	10	IS 3025 (P-34) 1988 RA 2019

END OF REPORT

Arshiya Rousar
ARSHIYA ROUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



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 23.05.2028

TEST REPORT

Table No. 13

Name of the Client		: M/s. Gogte Minerals		Table No. 13	
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		: 15.11.2025			
Date of sample receipt		: 17.11.2025			
Issue Date		: 03.12.2025			
Ref		: Environmental (P) Rules, 1986 SCHEDULE VI			
Report No		: M002325114			
Sample code		W2 W3		Standards For Effluent	
Sl. No.	Parameters	Results		Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	1		-	IS:3025 (part-4)
2	Suspended Solids (mg/l), Max	8		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	6.46		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 & Grease (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	30		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	<0.1		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 ₆ H ₅ 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	2.8		10	IS 3025 (P-34) 1988 RA 2019

END OF REPORT

Arshiya Kousar
ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in

Note : This report is subject to the terms and conditions mentioned overleaf.



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 23.05.2028

TEST REPORT

Table No.14

Name of the Client : M/s. Gogte Minerals
Name of the Project : Redi Iron Ore Mine (203)
Location : Redi village, Venguria 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 - Mallah water Near Kanyalwadi
SW3- Near Hanuman temple Kanyalwadi village
Date of sample collection : 15.11.2025
Date of sample receipt : 17.11.2025
Issue Date : 03.12.2025
Ref : IS : 2296 Water Quality Standards

Sl. No.	Report No	M002425114	M002525114	M002625114	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	6.90	6.52	6.70	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.50	5.60	5.60	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)	75	82	46	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	124	162	98	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	38.0	55.0	24.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	30.0	38.0	22.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO ₃),mg/l	2.60	3.00	1.56	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 ₆ H ₅ 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.

"END OF REPORT"


BINU MANI
TM - Microbiology
Govt Analyst/Authorised Signatory


ARSHIYA KOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in

Note : This report is subject to the terms and conditions mentioned overleaf.



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 23.05.2028

TEST REPORT

Table No. 15

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		: 15.11.2025		
Date of sample receipt		: 17.11.2025		
Report no		: M002725114		
Issue Date		: 03.12.2025		
Ref		: Schedule -1 Sl.No-2 of CTO		
Sample code		STP1		
Sl. No.	Parameters	Results	Standards	Method of Testing
1	pH	6.65	-	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand BOD ₅ 27 ^o C, mg/l	25	<100	IS 3025 (Part 44) 2023
3	Total Suspended Solids, at 105 ^o C, mg/l	18	<100	IS 3025 (P-17) 2022

Arshiya Housar
ARSHIYA HOUSAR
Dy TM - Chemical
Govt Analyst/Authorised Signatory

Office & Lab Address : # 948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in