

ENVIRONMENTAL MONITORING REPORT

June, 2023

PROJECT: REDI IRON ORE MINE (Block -1)
village Redi, Vengurla taluka, Sindhudurg district,
Maharashtra State.

Lessee: M/S. GOGTE MINERALS
BELAGAVI
KARNATAKA

CONSULTANT

MINERAL ENGINEERING SERVICES
(Accredited by QCI-NABET ORG000756)
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ENVIRONMENTAL LABORATORY
Unit of Mineral Engineering Services)
(Accredited by NABL & MOEF&CC Under
E(P) 1986)
#948, 2nd Cross, Kammanahalli Main
Road, St Thomas Town Post, Bangalore-
560 084, Karnataka,

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TEST REPORT

Table No. 1

Fugitive Emission

Project	: Redi Iron Ore Mine (203)					
Client	: M/s. Gogte Minerals					
Station at & Code	: Al - Dumping site (North Eastern side of Mining Lease)					
Duration	: 24 Hrs					
Date of Report	: 07.07.2023					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.06.2023	N/23/06/3-0005	10	15	485	154	0.24
10.06.2023	ED/23/06/3-0079	12	13	186	78	0.25
12.06.2023	ED/23/06/3-0151	12	16	235	135	0.21
13.06.2023	N/23/06/3-0209	7	11	275	142	0.06
23.06.2023	N/23/06/5-0021	12	15	325	185	0.22
24.06.2023	N/23/06/5-0079	6	9	75	35	0.15
26.06.2023	N/23/06/5-0123	7	9	110	83	0.15
27.06.2023	N/23/06/5-0170	8	12	70	50	0.08
Within in Mining Area Pollutant		SO ₂	NO ₂	SPM (PM)	RPM (PM ₁₀)	CO
Concentration in Ambient Air		120	120	500	250	4
Time Weighted Average		24 Hrs	24 Hrs	24 Hrs	24 Hrs	1 Hr
Note : * Parameters monitored for period of 1 hr						

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TEST REPORT

Table No. 2

Fugitive Emission

Project	: Redi Iron Ore Mine (203)					
Client	: M/s. Gogte Minerals					
Station at & Code	: A2 - Haulage/Transport road					
Duration	: 24 Hrs					
Date of Report	: 07.07.2023					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.06.2023	N/23/06/3-0006	7	10	462	168	0.45
10.06.2023	ED/23/06/3-0080	9	11	232	122	0.32
12.06.2023	ED/23/06/3-0152	10	11	241	118	0.11
13.06.2023	N/23/06/3-0210	10	13	275	135	0.22
23.06.2023	N/23/06/5-0022	14	14	286	124	0.16
24.06.2023	N/23/06/5-0080	9	11	66	26	0.21
26.06.2023	N/23/06/5-0124	9	12	98	80	0.25
27.06.2023	N/23/06/5-0171	9	10	75	55	0.13
Within in Mining Area Pollutant		SO ₂	NO ₂	SPM (PM)	RPM (PM ₁₀)	CO
Concentration in Ambient Air		120	120	500	250	4
Time Weighted Average		24 Hrs	24 Hrs	24 Hrs	24 Hrs	1 Hr
Note : * Parameters monitored for period of 1 hr						

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TEST REPORT

Table No. 3

Fugitive Emission

Project	: Redi Iron Ore Mine (203)					
Client	: M/s. Gogte Minerals					
Station at & Code	: A3 - Near Mine Pit Edge					
Duration	: 24 Hrs					
Date of Report	: 07.07.2023					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.06.2023	N/23/06/3-0007	11	14	245	134	0.33
10.06.2023	ED/23/06/3-0081	10	12	213	125	0.41
12.06.2023	N/23/06/3-0153	9	13	244	115	0.11
13.06.2023	N/23/06/3-0211	10	15	285	108	0.09
23.06.2023	N/23/06/5-0023	8	13	312	175	0.35
24.06.2023	N/23/06/5-0081	<4	<9	58	33	0.08
26.06.2023	N/23/06/5-0125	5	10	75	47	0.16
27.06.2023	N/23/06/5-0172	10	12	88	60	0.08
Within in Mining Area Pollutant		SO ₂	NO ₂	SPM (PM)	RPM (PM ₁₀)	CO
Concentration in Ambient Air		120	120	500	250	4
Time Weighted Average		24 Hrs	24 Hrs	24 Hrs	24 Hrs	1 Hr
Note : * Parameters monitored for period of 1 hr						

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TEST REPORT

Table No. 4

Fugitive Emission

Project	: Redi Iron Ore Mine (203)					
Client	: M/s. Gogte Minerals					
Station at & Code	: A - XI, Proposed Dump Area					
Duration	: 24 Hrs					
Date of Report	: 07.07.2023					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	PM ₁₀ (µg/m ³)	Carbon Monoxide* (CO), mg/m ³
09.06.2023	N/23/06/3-0008	9	11	154	147	0.28
10.06.2023	ED/23/06/3-0082	10	11	234	132	0.21
12.06.2023	N/23/06/3-0156	9	11	244	142	0.07
13.06.2023	N/23/06/3-0214	7	9	300	111	0.11
23.06.2023	N/23/06/5-0026	6	10	286	96	0.42
24.06.2023	N/23/06/5-0084	9	11	80	51	0.21
26.06.2023	N/23/06/5-0128	8	11	65	53	0.31
27.06.2023	N/23/06/5-0175	6	9	64	47	0.16
Within in Mining Area Pollutant		SO ₂	NO ₂	SPM (PM)	RPM (PM ₁₀)	CO
Concentration in Ambient Air		120	120	500	250	4
Time Weighted Average		24 Hrs	24 Hrs	24 Hrs	24 Hrs	1 Hr
Note : * Parameters monitored for period of 1 hr						

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TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Project : Redi Iron Ore Mine (203)
Client : M/s. Gogte Minerals
Station at & Code : A - IV, Core Zone (Near Mine Office and Screening Plant)
Duration : 24 Hrs
Date of Report : 07.07.2023
Reference IS 5182

Date of Sampling	Lab Code	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
09.06.2023	N/23/06/3-0009	10	12	42	21	<20	<1
10.06.2023	ED/23/06/3-0083	10	15	39	17	<20	<1
12.06.2023	ED/23/06/3-0146	10	11	55	28	<20	<1
13.06.2023	N/23/06/3-0204	8	10	30	15	<20	<1
23.06.2023	N/23/06/5-0016	14	16	46	23	<20	<1
24.06.2023	N/23/06/5-0074	9	10	48	23	<20	<1
26.06.2023	N/23/06/5-0118	8	12	39	25	<20	<1
27.06.2023	N/23/06/5-0165	8	11	31	15	<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 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
09.06.2023	N/23/06/3-0009	0.26	<0.5	<0.5	<0.5	0.16	23
10.06.2023	ED/23/06/3-0083	0.19	<0.5	<0.5	<0.5	0.26	22
12.06.2023	ED/23/06/3-0146	0.16	<0.5	<0.5	<0.5	0.07	21
13.06.2023	N/23/06/3-0204	0.19	<0.5	<0.5	<0.5	0.08	24
23.06.2023	N/23/06/5-0016	0.34	<0.5	<0.5	<0.5	0.09	26
24.06.2023	N/23/06/5-0074	0.06	<0.5	<0.5	<0.5	0.13	23
26.06.2023	N/23/06/5-0118	0.35	<0.5	<0.5	<0.5	0.14	28
27.06.2023	N/23/06/5-0165	0.28	<0.5	<0.5	<0.5	0.11	21
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

Project : Redi Iron Ore Mine (203)
Client : M/s. Gogte Minerals
Station at & Code : A - V, Redi village
Duration : 24 Hrs
Date of Report : 07.07.2023
Reference IS 5182

Date of Sampling	Lab Code	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
09.06.2023	N/23/06/3-0010	7	9	48	25	<20	<1
10.06.2023	ED/23/06/3-0084	8	13	47	24	<20	<1
12.06.2023	ED/23/06/3-0147	7	9	56	28	<20	<1
13.06.2023	N/23/06/3-0205	10	12	53	20	<20	<1
23.06.2023	N/23/06/5-0017	9	12	42	26	<20	<1
24.06.2023	N/23/06/5-0075	5	9	46	25	<20	<1
26.06.2023	N/23/06/5-0119	7	10	40	24	<20	<1
27.06.2023	N/23/06/5-0166	7	11	46	27	<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 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
09.06.2023	N/23/06/3-0010	0.22	<0.5	<0.5	<0.5	0.05	26
10.06.2023	ED/23/06/3-0084	0.34	<0.5	<0.5	<0.5	0.18	20
12.06.2023	ED/23/06/3-0147	0.22	<0.5	<0.5	<0.5	0.12	23
13.06.2023	N/23/06/3-0205	0.11	<0.5	<0.5	<0.5	0.11	24
23.06.2023	N/23/06/5-0017	0.26	<0.5	<0.5	<0.5	0.14	26
24.06.2023	N/23/06/5-0075	0.11	<0.5	<0.5	<0.5	0.21	20
26.06.2023	N/23/06/5-0119	0.21	<0.5	<0.5	<0.5	0.11	26
27.06.2023	N/23/06/5-0166	0.05	<0.5	<0.5	<0.5	0.13	24
Limits for Industrial, Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 7

AMBIENT AIR QUALITY

Project : Redi Iron Ore Mine (203)
Client : M/s. Gogte Minerals
Station at & Code : A - VI, Shiroda village
Duration : 24 Hrs
Date of Report : 07.07.2023
Reference IS 5182

Date of Sampling	Lab Code	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
09.06.2023	N/23/06/3-0011	11	13	37	22	<20	<1
10.06.2023	ED/23/06/3-0085	10	15	36	27	<20	<1
12.06.2023	ED/23/06/3-0148	11	12	45	24	<20	<1
13.06.2023	N/23/06/3-0206	7	11	48	19	<20	<1
23.06.2023	N/23/06/5-0018	6	10	40	27	<20	<1
24.06.2023	N/23/06/5-0076	7	9	40	22	<20	<1
26.06.2023	N/23/06/5-0120	9	11	42	28	<20	<1
27.06.2023	N/23/06/5-0167	5	10	34	18	<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 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
09.06.2023	N/23/06/3-0011	0.25	<0.5	<0.5	<0.5	0.06	20
10.06.2023	ED/23/06/3-0085	0.20	<0.5	<0.5	<0.5	0.22	26
12.06.2023	ED/23/06/3-0148	0.11	<0.5	<0.5	<0.5	0.08	25
13.06.2023	N/23/06/3-0206	0.17	<0.5	<0.5	<0.5	0.05	22
23.06.2023	N/23/06/5-0018	0.28	<0.5	<0.5	<0.5	0.11	25
24.06.2023	N/23/06/5-0076	0.07	<0.5	<0.5	<0.5	0.11	20
26.06.2023	N/23/06/5-0120	0.09	<0.5	<0.5	<0.5	0.15	22
27.06.2023	N/23/06/5-0167	0.15	<0.5	<0.5	<0.5	0.15	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. 8

AMBIENT AIR QUALITY

Project : Redi Iron Ore Mine (203)
Client : M/s. Gogte Minerals
Station at & Code : A - VII, Gaontala village
Duration : 24 Hrs
Date of Report : 07.07.2023
Reference IS 5182

Date of Sampling	Lab Code	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
09.06.2023	N/23/06/3-0012	9	11	51	28	<20	<1
10.06.2023	ED/23/06/3-0086	12	16	53	35	<20	<1
12.06.2023	ED/23/06/3-0149	12	16	54	28	<20	<1
13.06.2023	N/23/06/3-0207	11	15	50	15	<20	<1
23.06.2023	N/23/06/5-0019	12	13	47	28	<20	<1
24.06.2023	N/23/06/5-0077	9	11	35	19	<20	<1
26.06.2023	N/23/06/5-0121	10	14	45	26	<20	<1
27.06.2023	N/23/06/5-0168	4	9	48	28	<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 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
09.06.2023	N/23/06/3-0012	0.05	<0.5	<0.5	<0.5	0.08	21
10.06.2023	ED/23/06/3-0086	0.16	<0.5	<0.5	<0.5	0.18	27
12.06.2023	ED/23/06/3-0149	0.17	<0.5	<0.5	<0.5	0.13	20
13.06.2023	N/23/06/3-0207	0.30	<0.5	<0.5	<0.5	0.13	20
23.06.2023	N/23/06/5-0019	0.24	<0.5	<0.5	<0.5	0.09	27
24.06.2023	N/23/06/5-0077	0.08	<0.5	<0.5	<0.5	0.13	21
26.06.2023	N/23/06/5-0121	0.15	<0.5	<0.5	<0.5	0.13	25
27.06.2023	N/23/06/5-0168	0.16	<0.5	<0.5	<0.5	0.16	27
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. 9

AMBIENT AIR QUALITY

Project : Redi Iron Ore Mine (203)
Client : M/s. Gogte Minerals
Station at & Code : A - VIII, Kanyalwadi village
Duration : 24 Hrs
Date of Report : 07.07.2023
Reference IS 5182

Date of Sampling	Lab Code	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
09.06.2023	N/23/06/3-0013	6	13	39	21	<20	<1
10.06.2023	ED/23/06/3-0087	8	14	29	17	<20	<1
12.06.2023	ED/23/06/3-0150	11	14	35	20	<20	<1
13.06.2023	N/23/06/3-0208	9	10	42	22	<20	<1
23.06.2023	N/23/06/5-0020	15	16	53	26	<20	<1
24.06.2023	N/23/06/5-0078	<4	9	43	22	<20	<1
26.06.2023	N/23/06/5-0122	8	11	41	27	<20	<1
27.06.2023	N/23/06/5-0169	6	11	41	24	<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 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
09.06.2023	N/23/06/3-0013	0.17	<0.5	<0.5	<0.5	0.12	20
10.06.2023	ED/23/06/3-0087	0.17	<0.5	<0.5	<0.5	0.07	25
12.06.2023	ED/23/06/3-0150	0.33	<0.5	<0.5	<0.5	0.08	25
13.06.2023	N/23/06/3-0208	0.22	<0.5	<0.5	<0.5	0.21	25
23.06.2023	N/23/06/5-0020	0.22	<0.5	<0.5	<0.5	0.16	26
24.06.2023	N/23/06/5-0078	0.13	<0.5	<0.5	<0.5	0.21	23
26.06.2023	N/23/06/5-0122	0.05	<0.5	<0.5	<0.5	0.12	26
27.06.2023	N/23/06/5-0169	0.30	<0.5	<0.5	<0.5	0.10	24
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.10

AMBIENT AIR QUALITY

Project	: Redi Iron Ore Mine (203)				
Client	: M/s. Gogte Minerals				
Station at & Code	: AIX - Near NIMCO Gate - Tivrewadi, Redi village				
Duration	: 24 Hrs				
Date of Report	: 07.07.2023				
Reference	IS 5182				
Date of Sampling	Lab Code	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)
09.06.2023	N/23/06/3-0014	10	11	50	24
10.06.2023	ED/23/06/3-0088	10	18	53	27
12.06.2023	N/23/06/3-0154	12	12	63	33
13.06.2023	N/23/06/3-0212	10	13	30	18
23.06.2023	N/23/06/5-0024	12	18	57	33
24.06.2023	N/23/06/5-0082	5	9	45	22
26.06.2023	N/23/06/5-0126	7	10	50	28
27.06.2023	N/23/06/5-0173	12	14	44	26
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. 11

AMBIENT AIR QUALITY

Project	: Redi Iron Ore Mine (203)				
Client	: M/s. Gogte Minerals				
Station at & Code	: AX - Near Primary School - sakalbhatwadi Redi village				
Duration	: 24 Hrs				
Date of Report	: 07.07.2023				
Reference	IS 5182				
Date of Sampling	Lab Code	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)
09.06.2023	N/23/06/3-0015	7	11	43	23
10.06.2023	ED/23/06/3-0089	7	15	55	26
12.06.2023	N/23/06/3-0155	7	11	46	35
13.06.2023	N/23/06/3-0213	11	12	36	20
23.06.2023	N/23/06/5-0025	11	14	54	30
24.06.2023	N/23/06/5-0083	7	10	37	19
26.06.2023	N/23/06/5-0127	6	9	47	24
27.06.2023	N/23/06/5-0174	9	12	53	30
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. 12

STATISTICAL AIR QUALITY DATA

Project : Redi Iron Ore Mine (203)

Month : June, 2023

Station Code : A IV - Core Zone (ML Area, behind the Mines Office)					Station Code : A V - Redi village				Station Code : A VI - 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.	8	10	30	15	5	9	40	20	5	9	34	18
10%	8	10	31	15	6	9	41	23	6	10	35	19
25%	8	11	37	17	7	9	45	24	7	10	37	21
50%	10	12	41	22	7	11	47	25	8	11	40	23
75%	10	13	47	24	8	12	49	26	10	12	43	27
98%	13	16	54	28	10	13	56	28	11	15	48	28
Max.	14	16	55	28	10	13	56	28	11	15	48	28
Avg.	10	12	41	21	8	11	47	25	8	11	40	23
SD	2	2	8	5	2	2	5	2	2	2	5	4
No. of obs	8				8				8			
Station Code : A VII - Gaontala village					Station Code : A VIII- Kanyalwadi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	4	9	35	15	6	9	29	17				
10%	8	10	42	18	6	10	33	19				
25%	9	11	47	24	7	11	38	21				
50%	11	14	49	28	8	12	41	22				
75%	12	15	52	28	10	14	42	25				
98%	12	16	54	34	15	16	52	27				
Max.	12	16	54	35	15	16	53	27				
Avg.	10	13	48	26	9	12	40	22				
SD	3	3	6	6	3	2	7	3				
No. of obs	8				8							

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TEST REPORT

Table No.13

Report No : ED000123064

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203)			
Particular of Sample Collected	: SW1 - Pit water			
Sample Collected by	: Environmental Laboratory Representative			
Month	: June, 2023			
Date of sampling	: 19.06.2023			
Lab Code	: ED/23/06/4-0001			
Issue Date	: 30.07.2023			
Ref	: Environmental (P) Rules, 1986 SCHEDULE I,- 01.01.2016			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
2	pH	6.11	5.5-9.0	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand mg/l, BOD ₅ 27 ^o C	14	30	IS 3025 (P-58) 2006 RA 2022
3	Chemical Oxygen Demand (COD) mg/l	25	250	IS 3025 (P-44) 2014
4	Total Suspended Solids, mg/l	<5	Non Rainy Day 50, Rainy Day 100	IS 3025 (P-17) 2022
5	Fixed Dissolved Solids (FDS) mg/l	1620	2100	IS 3025(P-18) 2022
6	Temperature ° C	25	Shall not 5 ^o c above the receiving water temp	IS 3025 (P-9) 1984 RA 2022
7	Oil & Grease, mg/l	<0.1	10	IS 3025 (P-39) 2021
8	Ammonical Nitrogen, mg/l	<0.1	50	IS 3025 (P-34) 1988 RA 2019
9	Total Kjeldahl Nitrogen, mg/l	4.48	50	IS 3025 (P-34) 1988 RA 2019
10	Nitrate Nitrogen (as N), mg/l	0.28	10	IS 3025 (P-34) 1988 RA 2019
11	Phosphates (as P), mg/l	<0.05	5	IS 3025 (P-31) Sec 1 2022
12	Chlorides (as Cl), mg/l	786.79	1000	IS 3025 (Part-32) 1988 RA 2019
13	Sulphates (as SO ₄) mg/l	99.3	1000	IS 3025 (Part-24) Sec 1 2022
14	Fluoride (as F), mg/l	0.8	2	APHA 23rd Edition 4500F
15	Sulphide (as S), mg/l	<0.01	2	IS 3025 (P-29) 2022
16	Phenolic Compounds (as C ₆ H ₅ OH), mg/l	<0.001	1	IS 3025 (P-43) Sec 1 2022
17	Total Residual Chlorine, mg/l	<0.1	1	IS 3025 (P-26) 2021
18	Zinc (as Zn), mg/l	<0.005	5	IS 3025 (P-2) 2019
19	Iron (as Fe), mg/l	0.502	3	IS 3025 (P-2) 2019
20	Copper (as Cu), mg/l	<0.005	3	IS 3025 (P-2) 2019
21	Trivalent Chromium (as Cr ⁺³) mg/l	<0.001	2	SOP/C/W/4
22	Manganese (as Mn), mg/l	<0.001	2	IS 3025 (P-2) 2019
23	Nickel (as Ni), mg/l	<0.001	3	IS 3025 (P-2) 2019
24	Arsenic (as As), mg/l	<0.002	0.2	IS 3025 (P-2) 2019
25	Cyanide (as CN), mg/l	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
26	Vanadium (as V), mg/l	<0.001	0.2	IS 3025 (P-2) 2019
27	Lead (as Pb), mg/l	<0.005	0.1	IS 3025 (P-2) 2019
28	Hexavalent Chromium (as Cr ⁺⁶) mg/l	<0.03	2	IS 3025 (Part-52) 2014
29	Selenium (as Se), mg/l	<0.005	0.05	IS 3025 (P-2) 2019
30	Cadmium (as Cd), mg/l	<0.001	2	IS 3025 (P-2) 2019
31	Mercury (as Hg), mg/l	<0.0005	0.01	IS 3025 (P-2) 2019

"END OF REPORT"

(Signature)
GOV. ANALYST / AUTHORIZED SIGNATORY

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