

ENVIRONMENTAL MONITORING REPORT

July, 2024

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

Lessee: M/S. GOGTE MINERALS
BELAGAVI
KARNATAKA

ENVIRONMENTAL LABORATORY
(Unit of Mineral Engineering Services)
(Accredited by NABL & MOEF&CC Under E(P) 1986)
#948, 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)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
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TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redl Iron Ore Mine (203)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Station at & Code	: A1 - Core Zone Near Mine Office
Duration	: 24 Hrs
Issue Date	: 03.08.2024
Reference	IS 5182 & Lab SOP

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
03.07.2024	N/24/07/1-0148	7	11	42	24	<20	<1
04.07.2024	N/24/07/1-0196	9	13	38	18	<20	<1
12.07.2024	N/24/07/03-0176	10	13	28	16	<20	<1
13.07.2024	N/24/07/03-0235	11	10	33	24	<20	<1
15.07.2024	N/24/07/4-0039	7	9	42	28	<20	<1
16.07.2024	N/24/07/4-0091	9	10	40	26	<20	<1
24.07.2024	N/24/07/5-0113	6	11	30	18	<20	<1
25.07.2024	N/24/07/5-0153	9	13	35	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
03.07.2024	N/24/07/1-0148	0.15	<0.1	<0.5	<0.5	0.20	23
04.07.2024	N/24/07/1-0196	0.13	<0.1	<0.5	<0.5	0.23	20
12.07.2024	N/24/07/03-0176	0.15	<0.1	<0.5	<0.5	0.20	26
13.07.2024	N/24/07/03-0235	0.13	<0.1	<0.5	<0.5	0.22	21
15.07.2024	N/24/07/4-0039	0.18	<0.1	<0.5	<0.5	0.25	33
16.07.2024	N/24/07/4-0091	0.21	<0.1	<0.5	<0.5	0.23	23
24.07.2024	N/24/07/5-0113	0.25	<0.1	<0.5	<0.5	0.26	28
25.07.2024	N/24/07/5-0153	0.16	<0.1	<0.5	<0.5	0.28	25
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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ARSHIYA KOUSAR

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Govt. Analyst / Authorised Signatory

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Table No. 2

AMBIENT AIR QUALITY

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Station at & Code	: A2 - Redi vilage
Duration	: 24 Hrs
Issue Date	: 03.08.2024
Reference	IS 5182 & Lab SOP

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
03.07.2024	N/24/07/1-0149	5	12	38	25	<20	<1
04.07.2024	N/24/07/1-0197	10	10	37	22	<20	<1
12.07.2024	N/24/07/03-0177	9	11	41	23	<20	<1
13.07.2024	N/24/07/03-0236	4	9	28	18	<20	<1
15.07.2024	N/24/07/4-0040	6	10	30	14	<20	<1
16.07.2024	N/24/07/4-0092	8	11	40	22	<20	<1
24.07.2024	N/24/07/5-0114	9	11	35	20	<20	<1
25.07.2024	N/24/07/5-0154	9	12	28	17	<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
03.07.2024	N/24/07/1-0149	0.18	<0.1	<0.5	<0.5	0.22	25
04.07.2024	N/24/07/1-0197	0.13	<0.1	<0.5	<0.5	0.31	30
12.07.2024	N/24/07/03-0177	0.15	<0.1	<0.5	<0.5	0.24	<20
13.07.2024	N/24/07/03-0236	0.19	<0.1	<0.5	<0.5	0.31	23
15.07.2024	N/24/07/4-0040	<0.1	<0.1	<0.5	<0.5	0.22	21
16.07.2024	N/24/07/4-0092	<0.1	<0.1	<0.5	<0.5	<0.2	23
24.07.2024	N/24/07/5-0114	0.16	<0.1	<0.5	<0.5	<0.2	24
25.07.2024	N/24/07/5-0154	<0.1	<0.1	<0.5	<0.5	<0.2	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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Table No. 3

AMBIENT AIR QUALITY

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Station at & Code	: A3 - Shiroda viltage
Duration	: 24 Hrs
Issue Date	: 03.08.2024
Reference	IS 5182 & Lab SOP

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
03.07.2024	N/24/07/1-0150	4	9	31	16	<20	<1
04.07.2024	N/24/07/1-0198	5	10	45	27	<20	<1
12.07.2024	N/24/07/03-0178	10	13	40	28	<20	<1
13.07.2024	N/24/07/03-0237	6	10	35	24	<20	<1
15.07.2024	N/24/07/4-0041	9	11	42	32	<20	<1
16.07.2024	N/24/07/4-0093	5	<9	46	35	<20	<1
24.07.2024	N/24/07/5-0115	10	12	38	26	<20	<1
25.07.2024	N/24/07/5-0155	9	10	33	22	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m 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
03.07.2024	N/24/07/1-0150	<0.1	<0.1	<0.5	<0.5	<0.2	<20
04.07.2024	N/24/07/1-0198	<0.1	<0.1	<0.5	<0.5	0.23	23
12.07.2024	N/24/07/03-0178	<0.1	<0.1	<0.5	<0.5	0.30	21
13.07.2024	N/24/07/03-0237	0.11	<0.1	<0.5	<0.5	0.20	22
15.07.2024	N/24/07/4-0041	0.14	<0.1	<0.5	<0.5	0.28	26
16.07.2024	N/24/07/4-0093	0.18	<0.1	<0.5	<0.5	0.25	20
24.07.2024	N/24/07/5-0115	0.13	<0.1	<0.5	<0.5	0.22	22
25.07.2024	N/24/07/5-0155	0.11	<0.1	<0.5	<0.5	0.35	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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Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
 Name of the Project : Redi Iron Ore Mine (203)
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A4 - Gaontala village
 Duration : 24 Hrs
 Issue Date : 03.08.2024
 Reference IS 5182 & Lab SOP

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
03.07.2024	N/24/07/1-0151	10	13	41	30	<20	<1
04.07.2024	N/24/07/1-0199	5	10	33	22	<20	<1
12.07.2024	N/24/07/03-0179	9	11	46	26	<20	<1
13.07.2024	N/24/07/03-0238	11	13	30	19	<20	<1
15.07.2024	N/24/07/4-0042	7	10	30	18	<20	<1
16.07.2024	N/24/07/4-0094	11	15	35	15	<20	<1
24.07.2024	N/24/07/5-0116	9	13	45	25	<20	<1
25.07.2024	N/24/07/5-0158	10	12	36	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
03.07.2024	N/24/07/1-0151	0.16	<0.1	<0.5	<0.5	<0.2	23
04.07.2024	N/24/07/1-0199	0.18	<0.1	<0.5	<0.5	<0.2	20
12.07.2024	N/24/07/03-0179	0.17	<0.1	<0.5	<0.5	0.20	28
13.07.2024	N/24/07/03-0238	0.17	<0.1	<0.5	<0.5	0.31	20
15.07.2024	N/24/07/4-0042	0.15	<0.1	<0.5	<0.5	0.26	21
16.07.2024	N/24/07/4-0094	0.21	<0.1	<0.5	<0.5	0.25	<20
24.07.2024	N/24/07/5-0116	0.19	<0.1	<0.5	<0.5	0.30	22
25.07.2024	N/24/07/5-0158	0.11	<0.1	<0.5	<0.5	0.22	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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Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
 Name of the Project : Redi Iron Ore Mine (203)
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A5 - Kanyalwadi village
 Duration : 24 Hrs
 Issue Date : 03.08.2024
 Reference IS 5182 & Lab SOP

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
03.07.2024	N/24/07/1-0152	11	10	44	25	<20	<1
04.07.2024	N/24/07/1-0200	8	13	30	19	<20	<1
12.07.2024	N/24/07/03-0180	10	13	40	21	<20	<1
13.07.2024	N/24/07/03-0239	8	10	38	22	<20	<1
15.07.2024	N/24/07/4-0043	6	<9	38	22	<20	<1
16.07.2024	N/24/07/4-0095	10	12	31	18	<20	<1
24.07.2024	N/24/07/5-0117	9	11	38	21	<20	<1
25.07.2024	N/24/07/5-0157	6	10	40	22	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m 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
03.07.2024	N/24/07/1-0152	0.12	<0.1	<0.5	<0.5	0.25	20
04.07.2024	N/24/07/1-0200	0.16	<0.1	<0.5	<0.5	<0.2	23
12.07.2024	N/24/07/03-0180	0.10	<0.1	<0.5	<0.5	0.22	21
13.07.2024	N/24/07/03-0239	0.15	<0.1	<0.5	<0.5	0.20	<20
15.07.2024	N/24/07/4-0043	0.18	<0.1	<0.5	<0.5	0.25	22
16.07.2024	N/24/07/4-0095	0.11	<0.1	<0.5	<0.5	0.28	26
24.07.2024	N/24/07/5-0117	<0.1	<0.1	<0.5	<0.5	0.23	22
25.07.2024	N/24/07/5-0157	0.17	<0.1	<0.5	<0.5	0.30	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

Name of the Client : M/s. Gogte Minerals					
Name of the Project : Redi Iron Ore Mine (203)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A6 - Near NIMCO Gate - Tivrewadi, Redi village					
Duration : 24 Hrs					
Issue Date : 03.08.2024					
Reference IS 5182 & Lab SOP					
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)
03.07.2024	N/24/07/1-0153	10	12	35	19
04.07.2024	N/24/07/1-0201	11	14	39	22
12.07.2024	N/24/07/03-0181	5	9	50	26
13.07.2024	N/24/07/03-0240	7	9	40	24
15.07.2024	N/24/07/4-0044	<4	10	35	18
16.07.2024	N/24/07/4-0096	9	10	48	26
24.07.2024	N/24/07/5-0118	11	12	51	28
25.07.2024	N/24/07/5-0158	10	14	46	22
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	: Redl Iron Ore Mine (203)				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)				
Station at & Code	: A7 - Near Primary School - sakalbhatwadi Redi village				
Duration	: 24 Hrs				
Issue Date	: 03.08.2024				
Reference	IS 5182 & Lab SOP				
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)
03.07.2024	N/24/07/1-0154	8	9	40	21
04.07.2024	N/24/07/1-0202	7	11	43	22
12.07.2024	N/24/07/03-0182	10	9	47	26
13.07.2024	N/24/07/03-0241	9	11	48	26
15.07.2024	N/24/07/4-0045	7	9	30	18
16.07.2024	N/24/07/4-0097	<4	9	36	18
24.07.2024	N/24/07/5-0119	12	15	39	22
25.07.2024	N/24/07/5-0159	9	10	45	25
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 : M/s. Gogte Minerals												
Name of the : Redi Iron Ore Mine (203)												
Month : July, 2024												
Station Code : A4 - Core Zone (ML Area, behind the Mines Office)					Station Code : A5 - Redi village				Station Code : A6 - 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.	6	9	28	16	4	9	28	14	4	<9	31	16
10%	7	10	29	17	5	10	28	16	5	10	32	20
25%	7	10	32	18	6	10	30	18	5	10	35	24
50%	9	11	37	24	9	11	36	21	8	10	39	27
75%	9	13	41	25	9	11	39	22	9	12	43	29
98%	11	13	42	28	10	12	41	25	10	13	46	35
Max.	11	13	42	28	10	12	41	25	10	13	46	35
Avg.	9	11	36	22	8	11	35	20	7	11	39	26
SD	2	2	5	4	2	1	5	4	2	1	5	6
No. of obs	8				8				8			
Station Code : A7 - Gaontala village					Station Code : A8 - Kanyalwadi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	5	10	30	15	6	<9	30	18				
10%	6	10	30	17	6	10	31	19				
25%	9	11	32	18	8	10	35	21				
50%	10	13	36	21	9	11	38	22				
75%	10	13	42	25	10	13	40	22				
98%	11	15	46	29	11	13	43	25				
Max.	11	15	46	30	11	13	44	25				
Avg.	9	12	37	22	9	11	37	21				
SD	2	2	6	5	2	1	5	2				
No. of obs	8				8							

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TEST REPORT

NOISE LEVEL DATA

Table No. 9

Report No ;ELMES0262407

Name of the Client		: M/s. Gogta Minerals					
Name of the Project		: Redi Iron Ore Mine (203)					
Particulars of sample collected		: Sound Levels					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services)					
Date of sample collection		: 16.07.2024					
Date of sample receipt		: 17.07.2024					
Issue Date		: 03.08.2024					
Sampling & Test Method		: IS:9989					
Code No.	Monitoring stations	Day			Night		
		L_{min}	L_{eq}	L_{max}	L_{min}	L_{eq}	L_{max}
Bufferzone							
N1	Redi village	37.0	46.5	52.3	35.0	39.2	43.0
N2	Gaontala village	36.0	44.9	47.3	33.8	37.6	43.2
N3	Kanyalwadi village	38.0	46.6	51.0	33.8	39.0	44.0
N4	Shiroda village	36.8	47.1	53.0	33.5	38.0	41.0
N5	Tiroda village	35.0	44.1	50.5	33.6	36.0	39.3
N6	Near NIMCO Gate - Tirwadi, Redi village	41.0	43.7	53.2	34.6	39.3	44.6
N7	Near Primary School - sakalhatwadi, Redi village	36.0	45.7	51.2	34.0	40.8	47.5
Corezone							
N8	Near Mine office	36.0	50.6	58.3	34.0	41.9	45.0
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines							
		Leq. Limit dB(A)					
		Day		Night			
Industrial areas		75		70			
Commercial area		65		55			
Residential area		55		45			

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TEST REPORT

Table No. 10
Report No: M025024073

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, Maharashtra State.			
Particulars of sample collected	: SW1 - Pit water			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection	: 16.07.2024			
Lab Code	: N/24/07/3-0250			
Issue Date	: 25.07.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	25	--	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l), Max	62	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	6.74	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C	29	Shall not exceed 5° C above the receiving water temp	IS 3025 (P-9) 1986 RA2022
6	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l), Max	<0.1	1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l), Max	<0.1	50	IS 3025 (P-34) 1986 RA 2019
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.1	100	IS 3025 (P-34) 1986 RA 2019
10	Free Ammonia as NH ₃ (mg/l), Max	<0.1	5.0	IS 3025 (P-34) 1986 RA 2019
11	BOD [3 days at 27°C] (mg/l), Max	6.5	30	IS 3025 (P-44) 2014
12	COD (mg/l), Max	84	250	IS 3025 (P-58) 2006 RA2022
13	Arsenic as As (mg/l), Max	<0.01	0.2	APHA 3030K
14	Mercury as Hg (mg/l), Max	<0.001	0.01	APHA 3030K
15	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 3030K
16	Cadmium as Cd (mg/l), Max	<0.01	2.0	APHA 3030K
17	Hexavalent Chromium as Cr ⁺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 3030K
19	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 3030K
20	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 3030K
21	Selenium as Se (mg/l), Max	<0.05	0.05	APHA 3030K
22	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 3030K
23	Cyanide as CN (mg/l), Max	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l), Max	0.6	2.0	APHA 23rd Edition 4500F
25	Dissolved Phosphates as PO ₄ (mg/l), Max	<0.05	5.0	IS 2488 (P-31) Sec 1 2022
26	Sulphide as S (mg/l), Max	<0.01	2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
28	Radio Active materials			
	a) Alpha Emitters (µcurie/ml), Max	NA	10 ⁻⁷	APHA 21 st
	b) Beta Emitters (µcurie/ml), Max	NA	10 ⁻⁶	APHA 21 st
29	Bio-assay test	NA	90% survival of fish after 96 hrs in 100% effluent	IS 6582 (Part-1)
30	Manganese as Mn (mg/l), Max	<0.01	2	APHA 3030K
31	Iron as Fe (mg/l), Max	<0.05	3	APHA 3030K
32	Vanadium as V (mg/l), Max	<0.01	0.2	APHA 3030K
33	Nitrate Nitrogen (mg/l), Max	<0.1	10	IS 3025 (P-34) 1986 RA 2019
34	Fixed Dissolved Solids (FDS) mg/l	315	--	IS 3025(P-18) 2022
35	Chlorides (as Cl), mg/l	164	--	IS 3025 (P-32) 1986 RA2019

END OF REPORT

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TEST REPORT

Table No. 11
Report No: N025124073

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, Maharashtra State.			
Particulars of sample collected	: AD1 - Runoff water			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection	: 16.07.2024			
Lab Code	: N/24/07/3-0251			
Issue Date	: 25.07.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	20	--	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l), Max	53	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	6.77	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature °C	29	Shall not exceed 5°C above the receiving water temp	IS 3025 (P-9) 1984 RA2022
6	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l), Max	<0.1	1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l), Max	<0.1	50	IS 3025 (P-34) 1988 RA 2019
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.1	100	IS 3025 (P-34) 1988 RA 2019
10	Free Ammonia as NH ₃ (mg/l), Max	<0.1	5.0	IS 3025 (P-34) 1988 RA 2019
11	BOD [3 days at 27°C] (mg/l), Max	5.4	30	IS 3025 (P-44) 2014
12	COD (mg/l), Max	66	250	IS 3025 (P-58) 2006 RA2022
13	Arsenic as As (mg/l), Max	<0.01	0.2	APHA 3030K
14	Mercury as Hg (mg/l), Max	<0.001	0.01	APHA 3030K
15	Lead as Pb (mg/l), Max	<0.01	0.1	APHA 3030K
16	Cadmium as Cd (mg/l), Max	<0.01	2.0	APHA 3030K
17	Hexavalent Chromium as Cr ^{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 3030K
19	Copper as Cu (mg/l), Max	<0.05	3.0	APHA 3030K
20	Zinc as Zn (mg/l), Max	<0.05	5.0	APHA 3030K
21	Selenium as Se (mg/l), Max	<0.05	0.05	APHA 3030K
22	Nickel as Ni (mg/l), Max	<0.05	3.0	APHA 3030K
23	Cyanide as CN (mg/l), Max	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l), Max	0.5	2.0	APHA 23rd Edition 4500F
25	Dissolved Phosphates as PO ₄ (mg/l), Max	<0.05	5.0	IS 2488 (P-31) Sec 1 2022
26	Sulphide as S (mg/l), Max	<0.01	2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
28	Radio Active materials			
	a) Alpha Emitters (µcurie/ml), Max	NA	10 ⁻⁷	APHA 21*
	b) Beta Emitters (µcurie/ml), Max	NA	10 ⁻⁶	APHA 21*
29	Bio-assay test	NA	90% survival of fish after 96 hrs in 100% effluent	IS 6582 (Part-1)
30	Manganese as Mn (mg/l), Max	<0.01	2	APHA 3030K
31	Iron as Fe (mg/l), Max	<0.05	3	APHA 3030K
32	Vanadium as V (mg/l), Max	<0.01	0.2	APHA 3030K
33	Nitrate Nitrogen (mg/l), Max	<0.1	10	IS 3025 (P-34) 1988 RA 2019
34	Fixed Dissolved Solids (FDS) mg/l	358	--	IS 3025(P-18) 2022
35	Chlorides (as Cl), mg/l	118.8	--	IS 3025 (P-32) 1988 RA2019

END OF REPORT

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TEST REPORT

Table No. 12

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, MH State.
Particulars of sample collected	: SW2 - Kanyal tank water, SW3 - Nallah water Near Kanyahwadi SW4- Near Hanuman temple Kanyahwadi village
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Date of sample collection	: 16.07.2024
Issue Date	: 26.07.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Sl. No.	Lab Code	N/24/07/3-0252	N/24/07/3-0253	N/24/07/3-0254	Limits For Stream Water Standards	Method of Testing
	Sample Code	SW2	SW3	SW4		
	Parameters	Results				
1	Colour (Hazen Units), Max	5	10	10	300	IS:3025(Part-4)2021
2	pH	6.64	6.72	6.56	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.5	5.2	5.4	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<0.1	<0.1	<0.1	0.1	IS:3025(Part-39) 2021
5	Total Dissolved Solids (mg/l), Max	1380	860	640	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	40.8	12.1	3.8	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	<0.005	1.5	IS:3025(Part-42) 2019
9	Chloride (as Cl),mg/l, Max	326.0	134.0	72.8	600	IS:3025(Part-32);1988RA2019
10	Fluoride (as F),mg/l, Max	0.60	0.40	0.30	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<0.005	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates (as SO ₄), mg/l, Max	94.1	116.5	42.9	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	3	IS:3025(P-44) 2014
22	Total Coliform (MPN/100ml), Max	212	120	94	5000	IS:1622:1981

BINU MANI

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"END OF REPORT"

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TEST REPORT

Table No. 13

Name of the Client : M/s. Gogte Minerals
Name of the Project : Redi Iron Ore Mine (203), village Redi, Vengurta taluka, Sindhudurg dist, MH State.
Particulars of sample collected : GW1 - Tiroda village open well, GW2 - Redi village open well
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
Date of sample collection : 16.07.2024
Date of sample receipt : 17.07.2024
Issue Date : 25.07.2024
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Lab Code	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
			N/24/07/3-0255 GW1	N/24/07/3-0256 GW2			
1		Colour (Hazen Units), Max	<1.0	<1.0	5	15	IS:3025 (P-4)2021
2		Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3		pH	6.54	6.71	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4		Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5		Turbidity,NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6		Electrical Conductivity (µmhos/cm)	190.0	730.0	—	—	IS 3025 (P-14)
7		Total Dissolved Solids,mg/l, Max	108.0	430.0	500	2000	IS:3025 (P-10)1984 RA2017
8		Aluminum (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-66)2009 RA2019
9		Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10		Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-66)
11		Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025 P-2 2019
12		Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13		Calcium (as Ca),mg/l, Max	20.44	60.12	75	200	IS:3025 (P-40)1981 RA 2019
14		Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15		Chloride as Cl (mg/l),mg/l, Max	13.59	92.12	250	1000	IS:3025 (P-32)1988 RA 2019
16		Fluoride (as F),mg/l, Max	<0.1	0.30	1	1.5	IS:3025 (P-60)2009 RA 2019
17		Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-28)2021
18		Chloramines as Cl ₂ , Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19		Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20		Magnesium (as Mg) mg/l, Med	7.29	17.01	30	100	IS:3025 (P-48)1984 RA 2019
21		Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22		Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-30) 2021
23		Nitrates (as NO ₃),mg/l, Max	0.2	4.6	45	45	IS:3025 (P-34) 1988 RA 2019
24		Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25		Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26		Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27		Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28		Sulphates (as SO ₄),mg/l, Max	13.0	58.6	200	400	IS:3025 (P-24) Sec 1 2022
29		Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1988 RA 2019
30		Alkalinity (as CaCO ₃) mg/l, Max	75.0	240.0	200	600	IS:3025 (P-23):1988 RA 2019
31		Total Hardness (as CaCO ₃),mg/l, Max	80.0	220.0	200	600	IS:3025 (P-21):2009 RA 2019
32		Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33		Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34		Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35		Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36		Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37		Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38		Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39		Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-62)2014
40		Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any		IS:15185:2016 RA 2021
41		Total Coliform /100ml	Not Detected	Not Detected	100ml Sample		IS:15185:2016 RA 2021
42		Water levels in well from surface (m)	2.60	1.30	--	--	--

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 14

Name of the Client : M/s. Gogle Minerals
Name of the Project : Redi Iron Ore Mine (203), village Redi, Vengurta taluka, Sindhudurg dist, MH State.
Particulars of sample collected : GW3 -Shiroda village open well, GW4 - Karyahwadi village open well,
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
Date of sample collection : 16.07.2024
Date of sample receipt : 17.07.2024
Issue Date : 25.07.2024
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Lab Code	Parameters	N/2407/3-0257		N/2407/3-0258		Desirable Limits	Permissible Limits	Method of Testing
			GW3	GW4	Results	Results			
1		Colour (Hazen Units), Max	<1.0	<1.0			5	15	IS:3025 (P-4)2021
2		Odour	Agreeable	Agreeable			Agreeable	Agreeable	IS:3025 (P-5) 2018
3		pH	6.74	6.59			6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4		Taste	Agreeable	Agreeable			Agreeable	Agreeable	IS:3025 (P- 5)1984 RA 2017
5		Turbidity,NTU, Max	<0.1	<0.1			1	5	IS:3025 (P-10)1984 RA2017
6		Electrical Conductivity (μ mhos/cm)	450.0	370.0			--	--	IS 3025 (P-14)
7		Total Dissolved Solids,mg/l, Max	340.0	210.0			500	2000	IS:3025 (P-16)1984 RA2017
8		Aluminium (as Al), Max	<0.005	<0.005			0.03	0.2	IS:3025 (P-55)2003 RA2019
9		Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1			0.5	0.5	IS:3025 (P-34)1988 RA2019
10		Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1			0.2	1.0	IS:3025(Part-68)
11		Barium (as Ba), mg/l, Max	<0.005	<0.005			0.7	0.7	IS:3025(P-2)2019
12		Boron (as B), mg/l, Max	<0.1	<0.1			0.5	2.4	IS:3025 (Part-57) 2021
13		Calcium (as Ca),mg/l, Max	44.44	28.61			75	200	IS:3025 (P-40)1981 RA 2019
14		Copper (as Cu),mg/l, Max	<0.005	<0.005			0.05	1.5	IS:3025 (P-2)2019
15		Chloride as Cl (mg/l),mg/l, Max	33.75	117.28			250	1000	IS:3025 (P-32)1988 RA 2019
16		Fluoride (as F),mg/l, Max	<0.1	<0.1			1	1.5	IS:3025 (P-60)2008 RA 2019
17		Residual, Free Chlorine,mg/l, Max	<0.1	<0.1			0.2	1	IS:3025 (P-28)2021
18		Chloramines as C12, Max	<0.1	<0.1			4	4	IS:3025(P-28)2021
19		Iron (as Fe),mg/l, Max	<0.005	<0.005			1.0	1.0	IS:3025 (Part-2)2019
20		Magnesium (as Mg) mg/l, Max	25.02	14.90			30	100	IS:3025 (P-46)1984 RA 2019
21		Manganese (as Mn),mg/l, Max	<0.001	<0.001			0.1	0.3	IS:3025 (P-2)2019
22		Mineral Oil,mg/l, Max	<0.5	<0.5			1.0	1.0	Clause 6 of IS 3025 (P-38) 2021
23		Nitrates (as NO_3),mg/l, Max	1.8	0.5			45	45	IS:3025 (P-34) 1988 RA 2019
24		Phenolics (as $\text{C}_6\text{H}_5\text{OH}$),mg/l, Max	<0.001	<0.001			0.001	0.002	IS:3025 (P-43)Sec 1 2022
25		Selenium (as Se),mg/l, Max	<0.005	<0.005			0.01	0.01	IS:3025(P-2)2019
26		Silver (as Ag), mg/l, Max	<0.005	<0.005			0.1	0.1	IS:3025(P-2)2019
27		Molybdenum (as Mo), mg/l, Max	<0.001	<0.001			0.07	0.07	IS:3025 (P-2)2019
28		Sulphates (as SO_4),mg/l, Max	13.8	24.0			200	400	IS:3025 (P-24) Sec 1 2022
29		Sulphide (as H_2S), mg/l, Max	<0.01	<0.01			0.05	0.05	IS:3025 (P-29):1988 RA 2019
30		Alkalinity (as CaCO_3) mg/l, Max	257.0	25.0			200	600	IS:3025 (P-23):1988 RA 2019
31		Total Hardness (as CaCO_3),mg/l, Max	220.0	132.0			200	600	IS:3025 (P-21):2009 RA 2019
32		Zinc (as Zn),mg/l, Max	<0.005	<0.005			5	15	IS:3025 (P-2) 2019
33		Cadmium (as Cd),mg/l, Max	<0.001	<0.001			0.003	0.003	IS:3025 (P-2)2019
34		Cyanide (as CN),mg/l, Max	<0.01	<0.01			0.05	0.05	IS:3025 (P-27)Sec 1 2021
35		Lead (as Pb),mg/l, Max	<0.005	<0.005			0.01	0.01	IS:3025 (P-2)2019
36		Mercury (as Hg),mg/l, Max	<0.0005	<0.0005			0.001	0.001	USPEA 200.7 Rev 4.4
37		Nickel (as Ni),mg/l, Max	<0.001	<0.001			0.02	0.02	IS:3025 (P-2) 2019
38		Arsenic (as As),mg/l, Max	<0.002	<0.002			0.01	0.01	IS:3025 (P-2)2019
39		Total Chromium (as Cr),mg/l, Max	<0.001	<0.001			0.05	0.05	IS:3025 (P-62)2014
40		Escherichia coli/100ml	Not Detected	Not Detected			Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41		Total Coliform /100ml	Not Detected	Not Detected					IS:15185:2016 RA 2021
42		Water levels in well from surface (m)	0.00	0.00			--	--	--

"END OF REPORT"

BINU MANI

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ARSHIYA KOUSAR

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ENVIRONMENTAL LABORATORY

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TEST REPORT

Table No. 15

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurta taluka, Sindhudurg dist, MH State.
Particulars of sample collected	: GW5 - Gaontala village open well, GW6 -Tap water (near mines office)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Date of sample collection	: 16.07.2024
Date of sample receipt	: 17.07.2024
Issue Date	: 25.07.2024
Ref :	IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)

Sl. No.	Lab Code	Parameters	N/24/07/3-0250		Desirable Limits	Permissible Limits	Method of Testing
			N/24/07/3-0250	N/24/07/3-0280			
			Results				
			GW5	GW6			
1		Colour (Hazen Units), Max	<1.0	<1.0	5	15	IS:3025 (P-4)2021
2		Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2016
3		pH	6.59	7.10	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4		Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5		Turbidity,NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6		Electrical Conductivity (µmhos/cm)	280.0	450.0	—	—	IS 3025 (P-14)
7		Total Dissolved Solids,mg/l, Max	165.0	244.0	500	2000	IS:3025 (P-16)1984 RA2017
8		Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
9		Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1986 RA2019
10		Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11		Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025 P-2)2019
12		Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13		Calcium (as Ca),mg/l, Max	46.60	48.09	75	200	IS:3025 (P-40)1991 RA 2019
14		Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15		Chloride as Cl (mg/l),mg/l, Max	18.61	21.64	250	1000	IS:3025 (P-32)1986 RA 2019
16		Fluoride (as F),mg/l, Max	<0.1	<0.1	1	1.5	IS:3025 (P-60)2006 RA 2019
17		Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18		Chloramines as Cl2, Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19		Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20		Magnesium (as Mg) mg/l, Max	2.47	12.15	30	100	IS:3025 (P-46)1994 RA 2019
21		Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22		Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23		Nitrates (as NO ₃),mg/l, Max	<0.1	1.1	45	45	IS:3025 (P-34) 1986 RA 2019
24		Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25		Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26		Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27		Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28		Sulphates (as SO ₄),mg/l, Max	1.1	19.8	200	400	IS:3025 (P-24) Sec 1 2022
29		Sulphide (as H ₂ S), mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1986 RA 2019
30		Alkalinity (as CaCO ₃) mg/l, Max	140.0	160.0	200	600	IS:3025 (P-23):1986 RA 2019
31		Total Hardness (as CaCO ₃),mg/l, Max	126.5	170.0	200	600	IS:3025 (P-21):2009 RA 2019
32		Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33		Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34		Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35		Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36		Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37		Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38		Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39		Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40		Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any		IS:15185:2016 RA 2021
41		Total Coliform /100ml	Not Detected	Not Detected	100ml Sample		IS:15185:2016 RA 2021
42		Water levels in well from surface (m)	9.40	—	—	—	—

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 16

Report No: N026124073

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Venguria taluka, Sindhudurg dist, Maharashtra State.			
Particulars of sample collected	: Sewage Water Sample			
Date of sample collection	: 18.07.2024			
Lab Code	: N/24/07/3-0261			
Issue Date	: 25.07.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	7.05	6.5 -9.0	AOHA (23 rd Edition) 4500H* - B
2	Biochemical Oxygen Demand BOD ₅ 27 ^o C, mg/l	38	<30	IS 3025 (P-44) 1993
3	Total Suspended Solids, at 105 ^o C, mg/l	84	<100	AOHA (23 rd Edition) 2540 - D
4	Fecal Coliform (FC), MPN/100ml	79	<1000	AOHA (23 rd Edition) 5520 - B

BINU MANI

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TEST REPORT

Table No. 13

Name of the Client	: M/s. Minerals and Metals						
Name of the Project	: Redi Iron Ore Mine, village Redi, Vengurli taluka, Shindhudurg dist, MH State.						
Particulars of sample collected	: GW1 - Tiroda village open well, GW2 - Redi village open well						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)						
Date of sample collection	: 16.07.2024						
Date of sample receipt	: 17.07.2024						
Issue Date	: 25.07.2024						
Ref :	IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Sl. No.	Lab Code	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
			N/2407/3-0255	N/2407/3-0256			
			GW1	GW2			
1		Colour (Hazen Units), Max	<1.0	<1.0	5	15	IS:3025 (P-4)02021
2		Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3		pH	6.54	6.71	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4		Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5		Turbidity,NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6		Electrical Conductivity (µmhos/cm)	190.0	730.0	--	--	IS 3025 (P-14)
7		Total Dissolved Solids,mg/l, Max	108.0	430.0	500	2000	IS:3025 (P-16)1984 RA2017
8		Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
9		Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10		Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11		Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025 P-2;2019
12		Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13		Calcium (as Ca),mg/l, Max	20.44	60.12	75	200	IS:3025 (P-40)1991 RA 2019
14		Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15		Chloride as Cl (mg/l),mg/l, Max	13.59	92.12	250	1000	IS:3025 (P-32)1988 RA 2019
16		Fluoride (as F),mg/l, Max	<0.1	0.30	1	1.5	IS:3025 (P-60)2008 RA 2019
17		Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18		Chloramines as Cl2, Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19		Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20		Magnesium (as Mg) mg/l, Max	7.29	17.01	30	100	IS:3025 (P-40)1994 RA 2019
21		Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22		Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23		Nitrates (as NO ₃),mg/l, Max	0.2	4.6	45	45	IS:3025 (P-34) 1988 RA 2019
24		Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-48)Sec 1 2022
25		Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26		Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27		Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28		Sulphates (as SO ₄),mg/l, Max	13.0	58.6	200	400	IS:3025 (P-24) Sec 1 2022
29		Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1988 RA 2019
30		Alkalinity (as CaCO ₃) mg/l, Max	75.0	240.0	200	600	IS:3025 (P-23):1988 RA 2019
31		Total Hardness (as CaCO ₃),mg/l, Max	60.0	220.0	200	600	IS:3025 (P-21):2009 RA 2019
32		Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33		Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34		Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35		Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36		Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37		Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38		Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39		Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-62)2014
40		Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41		Total Coliform /100ml	Not Detected	Not Detected			IS:15185:2016 RA 2021
42		Water levels in well from surface (m)	2.80	1.30	--	--	--

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 14

Name of the Client	: M/s. Minerals and Metals						
Name of the Project	: Redi Iron Ore Mine, village Redi, Vengurla taluka, Sindhudurg dist, MH State.						
Particulars of sample collected	: GW3 - Shiroda village open well, GW4 - Kanyahwadi village open well,						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)						
Date of sample collection	: 16.07.2024						
Date of sample receipt	: 17.07.2024						
Issue Date	: 25.07.2024						
Ref :	IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Sl. No.	Lab Code	Parameters	Results		Desirable Limits	Permissible Limits	Method of Testing
			N/24/07/3-0257	N/24/07/3-0258			
			GW3	GW4			
1		Colour (Hazen Units), Max	<1.0	<1.0	5	15	IS:3025 (P-4)2021
2		Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3		pH	6.74	6.59	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4		Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5		Turbidity,NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6		Electrical Conductivity (µmhos/cm)	450.0	370.0	--	--	IS 3025 (P-14)
7		Total Dissolved Solids,mg/l, Max	340.0	210.0	500	2000	IS:3025 (P-16)1984 RA2017
8		Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-65)2003 RA2019
9		Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10		Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11		Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025 P-2)2019
12		Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13		Calcium (as Ca),mg/l, Max	44.44	28.61	75	200	IS:3025 (P-40)1981 RA 2019
14		Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15		Chloride as Cl (mg/l),mg/l, Max	33.75	117.28	250	1000	IS:3025 (P-32)1988 RA 2019
16		Fluoride (as F),mg/l, Max	<0.1	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
17		Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18		Chloramines as Cl2, Max	<0.1	<0.1	4	4	IS:3025(P-26)2021
19		Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20		Magnesium (as Mg) mg/l, Max	25.02	14.90	30	100	IS:3025 (P-48)1984 RA 2019
21		Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22		Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-39) 2021
23		Nitrates (as NO ₃),mg/l, Max	1.8	0.5	45	45	IS:3025 (P-34) 1988 RA 2019
24		Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25		Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26		Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27		Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28		Sulphates (as SO ₄),mg/l, Max	13.8	24.0	200	400	IS:3025 (P-24) Sec 1 2022
29		Sulphide (as H ₂ S) , mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29):1988 RA 2019
30		Alkalinity (as CaCO ₃) mg/l, Max	257.0	25.0	200	600	IS:3025 (P-23):1988 RA 2019
31		Total Hardness (as CaCO ₃),mg/l, Max	220.0	132.0	200	600	IS:3025 (P-21):2009 RA 2019
32		Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33		Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34		Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35		Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36		Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37		Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38		Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39		Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40		Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
41		Total Coliform /100ml)	Not Detected	Not Detected			IS:15185:2016 RA 2021
42		Water level in well from surface (m)	0.00	0.00	--	--	--

"END OF REPORT"

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 15

Name of the Client	: M/s. Minerals and Metals						
Name of the Project	: Redi Iron Ore Mine, village Redi, Vengurla taluka, Shindhadurg dist, MH State.						
Particulars of sample collected	: GW5 - Gaontala village open well, GW6 - Tap water (near mines office)						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)						
Date of sample collection	: 16.07.2024						
Date of sample receipt	: 17.07.2024						
Issue Date	: 25.07.2024						
Ref :	IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)						
Sl. No.	Lab Code	Parameters	N/24/07/3-0259		Desirable Limits	Permissible Limits	Method of Testing
			N/24/07/3-0260	Results			
			GW5	GW6			
1		Colour (Hazen Units), Max	<1.0	<1.0	5	15	IS:3025 (P-4)2021
2		Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3		pH	6.59	7.10	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4		Taste	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5		Turbidity,NTU, Max	<0.1	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6		Electrical Conductivity (μ mhos/cm)	280.0	450.0	—	—	IS 3025 (P-14)
7		Total Dissolved Solids,mg/l, Max	165.0	244.0	500	2000	IS:3025 (P-16)1984 RA2017
8		Aluminium (as Al), Max	<0.005	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
9		Ammonia (as total Ammonia -N),mg/l, Max	<0.1	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
10		Anionic Detergents (as MBAS),mg/l, Max	<0.1	<0.1	0.2	1.0	IS:3025(Part-68)
11		Barium (as Ba), mg/l, Max	<0.005	<0.005	0.7	0.7	IS:3025 (P-2)2019
12		Boron (as B), mg/l, Max	<0.1	<0.1	0.5	2.4	IS:3025 (Part-57) 2021
13		Calcium (as Ca),mg/l, Max	46.60	48.09	75	200	IS:3025 (P-40)1991 RA 2019
14		Copper (as Cu),mg/l, Max	<0.005	<0.005	0.05	1.5	IS:3025 (P-2)2019
15		Chloride as Cl (mg/l),mg/l, Max	16.61	21.64	250	1000	IS:3025 (P-32)1988 RA 2019
16		Fluoride (as F),mg/l, Max	<0.1	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
17		Residual, Free Chlorine,mg/l, Max	<0.1	<0.1	0.2	1	IS:3025 (P-26)2021
18		Chloramines as Cl2, Max	<0.1	<0.1	4	4	IS:3025(P-28)2021
19		Iron (as Fe),mg/l, Max	<0.005	<0.005	1.0	1.0	IS:3025 (Part-2)2019
20		Magnesium (as Mg) mg/l, Max	2.47	12.15	30	100	IS:3025 (P-46)1994 RA 2019
21		Manganese (as Mn),mg/l, Max	<0.001	<0.001	0.1	0.3	IS:3025 (P-2)2019
22		Mineral Oil,mg/l, Max	<0.5	<0.5	1.0	1.0	Clause 6 of IS 3025 (P-36) 2021
23		Nitrates (as NO ₃),mg/l, Max	<0.1	1.1	45	45	IS:3025 (P-34) 1988 RA 2019
24		Phenolics (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
25		Selenium (as Se),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025(P-2)2019
26		Silver (as Ag), mg/l, Max	<0.005	<0.005	0.1	0.1	IS:3025(P-2)2019
27		Molybdenum (as Mo), mg/l, Max	<0.001	<0.001	0.07	0.07	IS:3025 (P-2)2019
28		Sulphates (as SO ₄),mg/l, Max	1.1	19.6	200	400	IS:3025 (P-24) Sec 1 2022
29		Sulphide (as H ₂ S), mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-29)1988 RA 2019
30		Alkalinity (as CaCO ₃) mg/l, Max	140.0	160.0	200	600	IS:3025 (P-23)1988 RA 2019
31		Total Hardness (as CaCO ₃),mg/l, Max	126.5	170.0	200	600	IS:3025 (P-21)2088 RA 2019
32		Zinc (as Zn),mg/l, Max	<0.005	<0.005	5	15	IS:3025 (P-2) 2019
33		Cadmium (as Cd),mg/l, Max	<0.001	<0.001	0.003	0.003	IS:3025 (P-2)2019
34		Cyanide (as CN),mg/l, Max	<0.01	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35		Lead (as Pb),mg/l, Max	<0.005	<0.005	0.01	0.01	IS:3025 (P-2)2019
36		Mercury (as Hg),mg/l, Max	<0.0005	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37		Nickel (as Ni),mg/l, Max	<0.001	<0.001	0.02	0.02	IS:3025 (P-2) 2019
38		Arsenic (as As),mg/l, Max	<0.002	<0.002	0.01	0.01	IS:3025 (P-2)2019
39		Total Chromium (as Cr),mg/l, Max	<0.001	<0.001	0.05	0.05	IS:3025 (P-52)2014
40		Escherichia coli/100ml	Not Detected	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2018 RA 2021
41		Total Coliform /100ml)	Not Detected	Not Detected			IS:15185:2018 RA 2021
42		Water levels in well from surface (m)	9.48	—	—	—	—

"END OF REPORT"

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