

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1518D/79G/01

Reporting Date : 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/01	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Waste Water	Analysis Start Date:	01/08/2024
Sample Description:	STP Outlet(WW)	Analysis End Date:	07/08/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.10	-	IS 3025- Part 11	NS
2	Total Suspended Solids	42.00	mg/L	APHA 23rd Edn 2540 D	50
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	48.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	4.70	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	12	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms as per CTO

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Kinjal Damor



--- End of Report ---

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMLP/PN/1518D/79G/02

Reporting Date : 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/02	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	07/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMLP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	60.92	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	69.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.61	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.65	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	53.68	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	348.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Kinjal Damor



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Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN/1518D/79G/02

Reporting Date : 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/02	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	07/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	232.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.02	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Kinjal Damor



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1518D/79G/03

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)

Reporting Date : 08/08/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/03	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Waste Water	Analysis Start Date:	01/08/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	07/08/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	-	IS 3025- Part 11	5.5 to 8.5
2	Total Suspended Solids	36.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	76.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	20.00	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CTO.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Kinal Damor



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1518D/79G/04

Reporting Date : 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1518D/79G/04
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: Mine Discharge Water (WW)
Sample Quantity: 5 L
Sample Condition: Satisfactory

Sampling Date: 29/07/2024
Sample Receipt Date: 31/07/2024
Analysis Start Date: 01/08/2024
Analysis End Date: 07/08/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	-	IS 3025- Part 11	-
2	Total Suspended Solids	43.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	68.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	22.00	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Kinjal Damor



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Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/05	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	55.80	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	13.96	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	24.82	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	12.84	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	5.65	µg/m ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/05	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.8	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1518D/79G/06

Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/06	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Sita Sawangi Village	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	52.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.40	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.78	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/06	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Sita Sawangi Village	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.8	m/s	GGMPL/SOP/MP/01:2020	NS

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1518D/79G/07

Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/07	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Durg Chowk	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.08	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	12.28	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	28.29	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	12.53	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	7.06	µg/m ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1518D/79G/07

Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/07	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Durg Chowk	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	66	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.8	m/s	GGMPL/SOP/MP/01:2020	NS

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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End of Report

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1518D/79G/08

Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/08	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Mine Vertical Shaft	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	55.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.37	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.15	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.88	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10551	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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Kinjal Damor



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1518D/79G/08

Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1518D/79G/08	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Mine Vertical Shaft	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.8	m/s	GGMPL/SOP/MP/01:2020	NS

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1518D/79G/09

Reporting Date: 08/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 29/07/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1518D/79G/09A	Near Workshop	Day Time	dB(A)Leq	IS 4758	64.3	-
2	Lab/PN/1518D/79G/09B	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63.6	-
3	Lab/PN/1518D/79G/09C	Near Crushing Area	Day Time	dB(A)Leq	IS 4758	65.2	-
4	Lab/PN/1518D/79G/09D	Near DG Set	Day Time	dB(A)Leq	IS 4758	64.8	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1519D/79G/01

Reporting Date : 07/08/2024

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara
(M.S)



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1519D/79G/01	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Ground Water	Analysis Start Date:	01/08/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	07/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1520D/79F/01

Reporting Date : 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/01	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Railway Siding Office Drinking Water (DW)	Analysis End Date:	08/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	172.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	76.15	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	87.97	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQI (QI=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	41.31	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.75	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	79.83	mg/L	APHA 23rd Edition (4500 SO ₄ F)	200	400
9	Total Dissolved Solids (TDS)	420.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	360.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1520D/79F/01

Reporting Date : 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/01	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Railway Siding Office Drinking Water (DW)	Analysis End Date:	08/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.56	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	3.11	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1520D/79F/02

Reporting Date : 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/02	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	08/08/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	175.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	60.92	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	56.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.73	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.79	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	51.33	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	342.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1520D/79F/02

Reporting Date : 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/02	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	08/08/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	252.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.22	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1520D/79F/03

Reporting Date: 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/03	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	01/08/2024-08/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond. Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	52.50	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	12.41	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	24.82	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	11.27	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	5.65	µg/m ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Kinjil Damor



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1520D/79F/03

Reporting Date: 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/03	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	01/08/2024-08/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	64	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.6	m/s	GGMPL/SOP/MP/01:2020	NS

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1520D/79F/04

Reporting Date: 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/04	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Railway Siding	Analysis start- End Date:	01/08/2024-08/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.47	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.06	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Analyzed By
Kinjal Damor



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Manish Kumawat

Page No : 1/2

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Report Number : GGMPL/PN/1520D/79F/04

Reporting Date: 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1520D/79F/04	Sampling Start Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Near Railway Siding	Analysis start- End Date:	01/08/2024-08/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	66	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.6	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1520D/79F/05

Reporting Date: 09/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 29/07/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1520D/79F/05A	Weigh Bridge	Day Time	dB(A)Leq	IS 4758	67.8	-
2	Lab/PN/1520D/79F/05B	Loading And Unloading	Day Time	dB(A)Leq	IS 4758	69.3	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Kinjal
Analyzed By
Kinjal Damor



Manish
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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1521D/79F/01

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)

Reporting Date : 07/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1521D/79F/01	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Ground Water	Analysis Start Date:	01/08/2024
Sample Description:	Railway Siding Office Drinking Water (GW)	Analysis End Date:	07/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

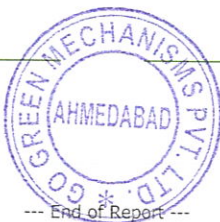
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1521D/79F/02

Reporting Date : 07/08/2024

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1521D/79F/02	Sampling Date:	29/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Ground Water	Analysis Start Date:	01/08/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	07/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

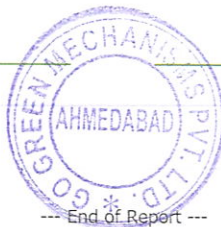
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/01

Reporting Date : 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/01	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Surface Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Sand Lease River	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	68.00	mg/l	APHA 23rd Edn 2320 B	-
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	-
3	Chloride	57.00	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	-
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	-
6	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.75	-	IS 3025- Part 11	-
9	Sulphate	24.2	mg/L	APHA 23rd Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	238	mg/L	APHA 23rd Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	-
12	Total Hardness as CaCO ₃	154.0	mg/L	APHA 23rd Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

A. S. Prajapati

Analyzed By
Akshay Prajapati



Tantan Kumar

Authorized Signatory
Tantan Kumar

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/01

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date : 07/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/01	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Surface Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Sand Lease River	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	2.28	mg/L	APHA 23rd Edn 4500 NO3 B	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Akshay Prajapati

Analyzed By
Akshay Prajapati



--- End of Report ---

Tantan Kumar

Authorized Signatory
Tantan Kumar

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/02

Reporting Date : 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/02	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Sand Lease 2 km From Site (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	128.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	44.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.23	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.68	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	13.27	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	246.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	150.0	mg/L	APHA 23rd Edn 2340 C	200	600

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Ashwini Prajapati

Analyzed By
Akshay Prajapati



Tantan Kumar

Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/02

Reporting Date : 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/02	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Sand Lease 2 km From Site (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.32	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

A-m. Prajapati

Analyzed By
Akshay Prajapati



--- End of Report ---

T

Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/03

Reporting Date : 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/03	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Village Borewell (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	112.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.0	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.36	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.8	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	262.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	154.0	mg/L	APHA 23rd Edn 2340 C	200	600

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Akshay Prajapati

Analyzed By
Akshay Prajapati



Tantan Kumar

Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/03

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date : 07/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/03	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Village Borewell (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.38	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Am Prajapati

Analyzed By
Akshay Prajapati



--- End of Report ---

Tantan Kumar

Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/04

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date : 07/08/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/04	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Village Tola Borewell (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	118.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	51.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.23	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.64	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.69	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	12.39	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	244.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	142.0	mg/L	APHA 23rd Edn 2340 C	200	600

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Am Rajan

Analyzed By
Akshay Prajapati



T

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Tantan Kumar

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/04

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date : 07/08/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/04	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Pathari Village Tola Borewell (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.02	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Am Prajapati

Analyzed By
Akshay Prajapati



--- End of Report ---

Tantan Kumar

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Tantan Kumar

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/05

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/05	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Pathari Sand lease from 500m	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.341	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.13	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.048	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Akshay Prajapati

Analyzed By
Akshay Prajapati



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Tantan Kumar

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/05

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/05	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Pathari Sand lease from 500m	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27.0	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Akshay Prajapati

Analyzed By
Akshay Prajapati



Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/06

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/06	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Hall Road of sand Lease 2 km east	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.62	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	15.80	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	25.98	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	10.96	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	9.89	µg/m ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Am Prajapati

Analyzed By
Akshay Prajapati



Tantankumar

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/06

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/06	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Hall Road of sand Lease 2 km east	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	

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Akshay Prajapati

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/07

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/07	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Point of Sand Lease	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.84	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.34	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.89	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

Akshay Prajapati

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/07

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/07	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Point of Sand Lease	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Am Prajapati

Analyzed By
Akshay Prajapati



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/08

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/08	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Pathari Village	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	29.34	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.02	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.062	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.037	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Am Prajapati

Analyzed By
Akshay Prajapati



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1532D/79H/08

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1532D/79H/08	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/08/2024
Sample Description:	Pathari Village	Analysis start- End Date:	01/08/2024-06/08/2024
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Akshay Prajapati

Analyzed By
Akshay Prajapati



--- End of Report ---

Tantankumar

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Tantankumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1532D/79H/09

Reporting Date: 07/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 30/07/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1532D/7 9I/09A	Pathari Sand Lease From 500 M	Day Time	dB(A)Leq	IS 4758	60.2	-
2	Lab/PN/1532D/7 9H/09B	Haul Road of Sand Lease 2 KM East	Day Time	dB(A)Leq	IS 4758	61.4	-
3	Lab/PN/1532D/7 9H/09C	Point Of Sand Lease	Day Time	dB(A)Leq	IS 4758	58.7	-
4	Lab/PN/1532D/7 9H/09D	Pathri Village	Day Time	dB(A)Leq	IS 4758	64.9	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Akshay Prajapati

Analyzed By
Akshay Prajapati



--- End of Report ---

Tantankumar

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Tantankumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1533D/79H/01

Reporting Date : 08/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1533D/79H/01	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Ground Water	Analysis Start Date:	02/08/2024
Sample Description:	Pathari sand lease River (GW)	Analysis End Date:	08/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
Nidhi Shah



Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1533D/79H/02

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date : 08/08/2024



SAMPLE DETAILS

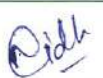
Lab ID:	Lab/PN/1533D/79H/02	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Ground Water	Analysis Start Date:	02/08/2024
Sample Description:	Pathari Sand Lease 2 km From Site (GW)	Analysis End Date:	08/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Analyzed By
Nidhi Shah




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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1533D/79H/03

Reporting Date : 08/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1533D/79H/03	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Ground Water	Analysis Start Date:	02/08/2024
Sample Description:	Pathari Village Borewell (GW)	Analysis End Date:	08/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Nidhi
Analyzed By
Nidhi Shah



--- End of Report ---

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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1533D/79H/04

Reporting Date : 08/08/2024

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1533D/79H/04	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/08/2024
Sample Type:	Ground Water	Analysis Start Date:	02/08/2024
Sample Description:	Pathari Village (Tola) Borewell (GW)	Analysis End Date:	08/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Analyzed By
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