

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426 Gujarat. INDIA

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



## 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 07/08/2024

Sample Description:

STP Outlet(WW)

Analysis End Date:

Sample Quantity: Sample Condition: 5 L

Satisfactory Packing:

Sampling Method:

GGMPL/WI/27A

Sealed

Parameters	Results	Unit	Test Method	Norm
pH at 25 °C	7.10	·	IS 3025- Part 11	NS
Total Suspended Solids	42.00	mg/L	APHA 23rd Edn 2540 D	50
Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
Chemical Oxygen Demand	48.00	mg/L	APHA 23rd Edn 5220 B	100
Dissolved Oxygen	4.70	mg/L	IS 3025- Part 38	NS
BOD at 27 o C for 3 days	12	mg/L	IS 3025- Part 44	30
Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS
	pH at 25 °C  Total Suspended Solids  Oil and Grease  Chemical Oxygen Demand  Dissolved Oxygen  BOD at 27 o C for 3 days	pH at 25 °C 7.10  Total Suspended Solids 42.00  Oil and Grease BQL (QL=2)  Chemical Oxygen Demand 48.00  Dissolved Oxygen 4.70  BOD at 27 o C for 3 days 12	pH at 25 °C 7.10 -  Total Suspended Solids 42.00 mg/L  Oil and Grease BQL (QL=2) mg/L  Chemical Oxygen Demand 48.00 mg/L  Dissolved Oxygen 4.70 mg/L  BOD at 27 o C for 3 days 12 mg/L	pH at 25 °C       7.10       -       IS 3025- Part 11         Total Suspended Solids       42.00       mg/L       APHA 23rd Edn 2540 D         Oil and Grease       BQL (QL=2)       mg/L       IS 3025- Part 39         Chemical Oxygen Demand       48.00       mg/L       APHA 23rd Edn 5220 B         Dissolved Oxygen       4.70       mg/L       IS 3025- Part 38         BOD at 27 o C for 3 days       12       mg/L       IS 3025- Part 44

Norms as per CTO

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

Analyzed By Kinjal Damor

End of Report -

\*

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



TC-707

### 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 01/08/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

07/08/2024

Sample Description:

Officer Colony Water Supply (GW)

3 L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Sealed

					S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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 SO4 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 AHMEDABAD PO

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1518D/79G/02

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Officer Colony Water Supply (GW)

Sample Quantity: Sample Condition: 3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

29/07/2024

31/07/2024

01/08/2024

07/08/2024

Specification:

						T. 418 A. 442 St. 201 (1914), 4 (1914) (1914)
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12 T	otal Hardness as CaCO3	232.00	mg/L	APHA 23rd Edn 2340 C	200	600
13 T	urbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14 Ir	ron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15 M	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 N	litrate	3.02	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

Analyzed By Kinjal Damor \*

Authorized Signatory 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 01/08/2024

Sample Type:

Waste Water ETP Outlet (WW) Analysis Start Date: Analysis End Date:

07/08/2024

Sample Description:

5 L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	- 92-	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 o 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 Kinjal Damor

-- End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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: Sample Drawn By: Lab/PN/1518D/79G/04 Laboratory Representative Sampling Date: Sample Receipt Date: Analysis Start Date: 29/07/2024 31/07/2024 01/08/2024

Sample Type: Sample Description: Waste Water Mine Discharge Water (WW)

Analysis Start Date:

07/08/2024

Sample Quantity:

Sample Condition:

5 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing: Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	7	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	ARREST ACES

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

Analyzed By Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1518D/79G/05

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1518D/79G/05

Laboratory Representative

Ambient Air

Near Mine Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

24

25±5°C

29/07/2024

30/07/2024 31/07/2024

01/08/2024-07/08/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	55.80	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.96	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	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)	1.11	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 AHMEDABAD PP

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1518D/79G/05

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

01/08/2024-07/08/2024

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1518D/79G/05

Laboratory Representative

Ambient Air Near Mine Office

Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

25±5°C

29/07/2024

30/07/2024

31/07/2024

Gr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temp	perature	25	°C	GGMPL/SOP/MP/01	NS
13 Relat	ive Humidity	55	%	GGMPL/SOP/MP/01	NS
14 Rainf	all	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 Lim

Analyzed By Kinjal Damor Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1518D/79G/06

Laboratory Representative

Ambient Air

Near Sita Sawangi Village

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

29/07/2024 30/07/2024 31/07/2024

01/08/2024-07/08/2024

Total Sampling hours:

24

Env. Cond.-Testing:

25±5°C

r.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

Analyzed By Kinjal Damor

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



01/08/2024-07/08/2024

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1518D/79G/06 Laboratory Representative

Ambient Air

Near Sita Sawangi Village

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

25±5°C

29/07/2024 30/07/2024

31/07/2024

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

Analyzed By

Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1518D/79G/07 Laboratory Representative

Ambient Air Near Durg Chowk Ambient Temperature

Satisfactory

Sampling Start Date: 29/07/2024 30/07/2024 Sampling End Date: Sample Receipt Date: 31/07/2024

Analysis start- End Date: 01/08/2024-07/08/2024 Total Sampling hours: 24 25±5°C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.08	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	2/.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.28	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.29	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.53	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)	1.09	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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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1518D/79G/07

Laboratory Representative

Ambient Air Near Durg Chowk Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

29/07/2024 30/07/2024 31/07/2024

01/08/2024-07/08/2024

24 25±5°C

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

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

Analyzed By Kinjal Damor Quantification Almoit

AHMEDABAD

End of Report

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1518D/79G/08

Laboratory Representative

Ambient Air

Near Mine Vertical Shaft Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

29/07/2024

30/07/2024 31/07/2024

01/08/2024-07/08/2024

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

Kinjal Damor

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1518D/79G/08 Laboratory Representative

Ambient Air

Near Mine Vertical Shaft Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 29/07/2024 30/07/2024 31/07/2024

01/08/2024-07/08/2024

24 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

Analyzed By Kinjal Damor AHMEDABAD CONT.

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 08/08/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date: Sample Description: 29/07/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1518D/7 9G/09A	Near Workshop	Day Time	dB(A)Leq	IS 4758	64.3	-
2	Lab/PN/1518D/7 9G/09B	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63.6	-
3	Lab/PN/1518D/7 9G/09C	Near Crushing Area	Day Time	dB(A)Leq	IS 4758	65.2	
4	Lab/PN/1518D/7 9G/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

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 07/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Condition:

Sample Quantity:

Lab/PN/1519D/79G/01 Laboratory Representative

Ground Water Officer Colony Water Supply (GW)

500 ml Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Sampling Method:

Analysis End Date:

Packing:

29/07/2024

31/07/2024 01/08/2024 07/08/2024

GGMPL/WI/27A 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

End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



### SAMPLE DETAILS

Lab ID:

Lab/PN/1520D/79F/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity: Railway Siding Office Drinking Water (DW)

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

29/07/2024

31/07/2024 01/08/2024

08/08/2024 GGMPL/WI/27A

Sealed

Specification:

						Market State California
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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)	CII	IS 3075 Part-4	5	15
5	Magnesium as Mg	41.31	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
G	Odour	Agreeable	*	IS 3025 Part 5	Agreeable	Agreeabl
7	pH at 25 °C	7.75		IS 3025-Part 11	6.5-8.5	No Relaxatio
8	Sulphate	79.83	mg/L	APHA 23rd Edition (4500 SO4 F)	200	400
9	Total Dissolved Solids (TDS)	420.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	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, OL= Quantification Limit

Analyzed By Kinjal Damor CHANIS AND THE COLUMN AND THE COLUMN

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1520D/79F/01

Sampling Date:

29/07/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

31/07/2024 01/08/2024

Sample Description:

Railway Siding Office Drinking Water (DW)

Analysis End Date:

08/08/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Sampling Method: 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

Kinjal Damor

0 \* 0

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1520D/79F/02

Sampling Date:

29/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

31/07/2024 01/08/2024

Sample Type: Sample Description: Water Railway Siding Water Supply (GW)

Analysis End Date:

08/08/2024

Sample Quantity:

Sample Condition:

3.5 L

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing:

Sealed

			-			Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	1,5,5,5,	IS 3025- Part 5	Agreeabl	e 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 SO4 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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024

Specification:



TC-7073

### SAMPLE DETAILS

Lab ID:

15

16

Manganese

Nitrate

Lab/PN/1520D/79F/02

Sampling Date:

29/07/2024

Sample Drawn By:

Laboratory Representative

Railway Siding Water Supply (GW)

2.22

Sample Receipt Date:

31/07/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date: 01/08/2024 08/08/2024

Sample Quantity:

Sample Condition:

3.5 L

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing:

Sealed

Sr.No **Parameters** Results Unit Test Method AL PL 12 Total Hardness as CaCO3 252.00 mg/L APHA 23rd Edn 2340 C 200 600 Turbidity BQL (QL=0.1) NTU APHA 23rd Edn 2130 B 1 5 No 14 Iron BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.3 relaxation

mg/L

BQL (QL=0.05) mg/L

GGMPL/SOP/W & WW/46 0.1 0.3

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

Analyzed By Kinjal Damor AHMEDABAD & AHMEDA

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond. Sample Receipt:

Lab/PN/1520D/79F/03

Laboratory Representative

Ambient Air

Near Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing. 29/07/2024

30/07/2024 31/07/2024

01/08/2024-08/08/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	52.50	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	μg/m3	GGMPL/SOP//VV/60 Issue No.UZ August 01	60
3	Sulphur Dioxide (SO2)	12.41	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.82	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.27	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	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 AHMEDABAD PV

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1520D/79F/03

Laboratory Representative

Ambient Air Near Weigh Bridge

Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 29/07/2024 30/07/2024

31/07/2024 01/08/2024-08/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Tem	perature	28	°C	GGMPL/SOP/MP/01	NS
13 Relat	ive Humidity	64	%	GGMPL/SOP/MP/01	NS
14 Raint	all	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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1520D/79F/04

Laboratory Representative

Ambient Air

Near Railway Siding Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 29/07/2024 30/07/2024

31/07/2024

01/08/2024-08/08/2024

24

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 AHMEDARAD W

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1520D/79F/04

Laboratory Representative

Ambient Air Near Railway Siding

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

29/07/2024 30/07/2024 31/07/2024

01/08/2024-08/08/2024

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

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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

M/s Moil Limited

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

Reporting Date: 09/08/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

29/07/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1520D/7 9F/05A	Weigh Bridge	Day Time	dB(A)Leq	IS 4758	67.8	-
2	Lab/PN/1520D/7 9F/05B	Loading And Unloading	Day Time	dB(A)Leq	IS 4758	69.3	***

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Analyzed By Kinjal Damor

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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



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1521D/79F/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Ground Water Railway Siding Office Drinking Water (GW)

Sample Quantity: Sample Condition:

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

29/07/2024 31/07/2024 01/08/2024

07/08/2024 GGMPL/WI/27A

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







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# **CERTIFICATE OF ANALYSIS**

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

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/02

Sampling Date:

29/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

31/07/2024

Sample Type: Sample Description: Ground Water Railway Siding Water Supply (GW) Analysis Start Date: 01/08/2024 Analysis End Date:

07/08/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

500 ml Satisfactory Sampling Method:

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/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

Sample Drawn By:

Laboratory Representative

Sample Type:

Surface Water

Sample Description:

Pathari Sand Lease River

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

01/08/2024 06/08/2024 GGMPL/WI/27A

30/07/2024

01/08/2024

d

De elde en	Sealed
Packing:	Sealer

Sr.No	Parameters	Results	Unit	Lest Method	Norm
1	Alkalinity as CaCO3	68.00	mg/I	APHA 23rd Fdn 2320 B	2
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	675	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 SO4 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 CaCO3	154.0	mg/L	APHA 23rd Edn 2340 C	

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

Analyzed By Akshay Prajapati 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



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1532D/79H/01 Laboratory Representative

Surface Water

Sample Type: Sample Description:

Pathari Sand Lease River

Results

2.28

BQL (QL=0.1) BQL (QL=0.05)

BQL (QL=0.05)

Unit

NTU

mg/L

mg/L

mg/L

Sample Quantity: 3 L

**Parameters** 

Sample Condition:

Turbidity

Manganese

Nitrate

Iron

Sr.No

13

14

15

16

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

APHA 23rd Edn 4500 NO3 B

Sampling Method: Sealed

Packing:

30/07/2024

01/08/2024 01/08/2024 06/08/2024

GGMPL/WI/27A

Test Method	Norm
APHA 23rd Edn 2130 B	
GGMPL/SOP/W & WW/46	
GGMPL/SOP/W & WW/46	-

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

Analyzed By Akshay Prajapati

--- End of Report ---

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

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/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Pathari Sand Lease2 km From Site (GW)

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 30/07/2024 01/08/2024

01/08/2024 06/08/2024 GGMPL/WI/27A

Sealed

Specification:

r.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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 SO4 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 CaCO3	150.0	mg/L	APHA 23rd Edn 2340 C	200	600

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

Analyzed By

Analyzed By Akshay Prajapati Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

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/02

Sampling Date:

30/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

01/08/2024 01/08/2024

Sample Type:

Analysis Start Date:

06/08/2024

Sample Description:

Pathari Sand Lease2 km From Site (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: 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

Authorized Signatory

Analyzed By Akshay Prajapati

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

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Pathari Village Borewell (GW)

3 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

30/07/2024

01/08/2024 01/08/2024

06/08/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	(5)	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53	-	IS 3025- Part 11 6		No relaxation
9	Sulphate	32.8	mg/L	APHA 23rd Edn 4500 SO4 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 CaCO3	154.0	mg/L	APHA 23rd Edn 2340 C	200	600

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

Analyzed By Akshay Prajapati

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



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 Analysis End Date:

Sample Description:

Pathari Village Borewell (GW)

06/08/2024

Sample Quantity:

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

Analyzed By

Akshay Prajapati

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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



### SAMPLE DETAILS

Lab ID:

Lab/PN/1532D/79H/04

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Pathari Village Tola Borewell (GW)

3 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

06/08/2024

Packing:

GGMPL/WI/27A

30/07/2024

01/08/2024

01/08/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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 SO4 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 CaCO3	142.0	mg/L	APHA 23rd Edn 2340 C	200	600

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

Analyzed By Akshay Prajapati Authorized Signatory 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:

Maka-

Analysis Start Date:

01/08/2024

Sample Description:

Pathari Village Tola Borewell (GW)

Analysis End Date: Sampling Method: 06/08/2024 GGMPL/WI/27A

Sample Quantity: 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

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Analyzed By Akshay Prajapati AHMEDABAD CONTROL OF THE PROPERTY OF THE PROPE

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1532D/79H/05

Laboratory Representative

Ambient Air

Pathari Sand lease from 500m

Ambient temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

01/08/2024-06/08/2024

Env. Cond.-Testing:

24	
25±5°C	

30/07/2024

31/07/2024

01/08/2024

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	μ <b>g</b> /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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1532D/79H/05

Laboratory Representative

Ambient Air

Pathari Sand lease from 500m

Ambient temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 30/07/2024

31/07/2024 01/08/2024

01/08/2024-06/08/2024 24

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/Lin

Analyzed By Akshay Prajapati 17

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1532D/79H/06

Laboratory Representative

Ambient Air

Hall Road of sand Lease 2 km east

Ambient temperature

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

31/07/2024 01/08/2024

30/07/2024

01/08/2024-06/08/2024

24

Env. Cond.-Testing: 25±5°C Satisfactory

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.62	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.80	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.98	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.96	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)	1.06	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 Akshay Prajapati

Authorized Signatory Tantan Kumar

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1532D/79H/06

Laboratory Representative

Ambient Air

Hall Road of sand Lease 2 km east

Ambient temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 30/07/2024 31/07/2024

01/08/2024

01/08/2024-06/08/2024

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	

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

Analyzed By Akshay Prajapati AHMEDABAD 2

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1532D/79H/07 Laboratory Representative

Ambient Air Point of Sand Lease Ambient temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

01/08/2024-06/08/2024 Env. Cond.-Testing:

25±5°C

30/07/2024

31/07/2024

01/08/2024

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

Analyzed By Akshay Prajapati

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1532D/79H/07

Laboratory Representative

Ambient Air

Point of Sand Lease Ambient temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

30/07/2024 31/07/2024

01/08/2024 01/08/2024-06/08/2024

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

Analyzed By Akshay Prajapati Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1532D/79H/08

Laboratory Representative

Ambient Air Pathari Village

Ambient temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/07/2024

31/07/2024 01/08/2024

01/08/2024-06/08/2024

24 25±5°C

r.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

Analyzed By Akshay Prajapati

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1532D/79H/08 Laboratory Representative

Ambient Air Pathari Village Ambient temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

25±5°C Env. Cond.-Testing:

30/07/2024 31/07/2024 01/08/2024

01/08/2024-06/08/2024

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	27	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	62	%	GGMPL/SOP/MP/01	NS
Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	
	Temperature Relative Humidity Rainfall Lead	Temperature 27 Relative Humidity 62 Rainfall 0.00 Lead BQL (QL=0.001)	Temperature         27         °C           Relative Humidity         62         %           Rainfall         0.00         mm           Lead         BQL (QL=0.001)         μg/m3	Temperature         27         °C         GGMPL/SOP/MP/01           Relative Humidity         62         %         GGMPL/SOP/MP/01           Rainfall         0.00         mm         GGMPL/SOP/MP/01:2020           Lead         BQL (QL=0.001)         μg/m3         USEPA Method IO 3.4

Analyzed By Akshay Prajapati 99 \* - End of Report ---

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/07/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1532D/7 9H/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	1.7
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= Quanti

Analyzed By Akshay Prajapati - End of Report ---

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

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

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/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Pathari sand lease River (GW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

30/07/2024

Sample Receipt Date:

01/08/2024

Analysis Start Date:

02/08/2024

Analysis End Date:

08/08/2024

Sampling Method:

GGMPL/WI/27A

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 Shah

End of Report

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



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1533D/79H/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Pathari Sand Lease 2 km From Site (GW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 30/07/2024 01/08/2024 02/08/2024

08/08/2024 GGMPL/WI/27A

g: 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 AHMEDABAD AHMEDABAD

Authorized Signatory
Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 08/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1533D/79H/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Pathari Village Borewell (GW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

30/07/2024

Sample Receipt Date:

01/08/2024

Analysis Start Date:

02/08/2024

Analysis End Date:

08/08/2024

Sampling Method:

GGMPL/WI/27A

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

Analyzed By Nidhi Shah AHMEDABAD PV

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Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

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

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/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Pathari Village (Tola) Borewell (GW)

Sample Quantity: 5

Satisfactory

Sample Condition:

500 ml

Sampling Date:

Cample Descipt Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 30/07/2024

01/08/2024 02/08/2024

08/08/2024 GGMPL/WI/27A

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.

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