

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/526D/79G/01

M/s Moil Limited

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

(M.S)



# SAMPLE DETAILS

Lab ID:

Lab/PN/526D/79G/01

Sampling Date:

25/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Waste Water

Sample Receipt Date: Analysis Start Date: 27/05/2024 28/05/2024

Sample Description:

STP Outlet(WW)

Analysis End Date:

04/06/2024

Sample Quantity:

3.5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing: S

Sealed

Sr.No Parameters	Results	Unit	Test Method	Norm
1 pH at 25 °C	7.55	-	IS 3025- Part 11	NS
2 Total Suspended Solids	44.00	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	50.00	mg/L	APHA 23rd Edn 5220 B	100
5 Dissolved Oxygen	4.8	mg/L	IS 3025- Part 38	NS
6 BOD at 27 o C for 3 days	15	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 Khushbu Suthar AHMEDABAD P

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/02

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/526D/79G/02

Sampling Date:

25/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

27/05/2024 28/05/2024

Sample Type: Sample Description: Water

3.8 L

Analysis Start Date: Analysis End Date:

04/06/2024

Sample Quantity:

Officer Colony Water Supply (GW)

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

				. delinigi		
					S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	54.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	71.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.65	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	13.60	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.25		IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	52.84	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	344.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	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

Khuribu. Analyzed By Khushbu Suthar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/02

M/s Moil Limited

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

(M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/526D/79G/02

Sampling Date:

25/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date: 27/05/2024 28/05/2024

Sample Type:

Water

Analysis End Date:

04/06/2024

Sample Description:

Officer Colony Water Supply (GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	192.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	NS	NS
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	2.84	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 Khushbu Suthar



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/03

M/s Moil Limited

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

(M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/526D/79G/03

Sampling Date:

25/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

27/05/2024

Sample Type:

Waste Water

Analysis Start Date:

28/05/2024

Sample Description:

Waste Water ETP Outlet (WW)

Analysis End Date:

04/06/2024

Sample Quantity:

3.5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1 pl	H at 25 °C	7.45		IS 3025- Part 11	5.5 to 8.5
2 To	otal Suspended Solids	31.00	mg/L	APHA 23rd Edn 2540 D	100
3 0	oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4 Cl	hemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	250
5 Di	issolved Oxygen	4.7	mg/L	IS 3025- Part 38	NS
6 B0	OD at 27 o C for 3 days	25	mg/L	IS 3025- Part 44	30
7 M	langanese	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 Khushbu Suthar

--- End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/04

M/s Moil Limited

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

(M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/526D/79G/04

Sample Drawn By: Sample Type:

Sample Quantity:

Sample Condition:

Laboratory Representative Waste Water

Sample Description:

Mine Discharge Water (WW)

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

25/05/2024

27/05/2024

28/05/2024

04/06/2024

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.45		IS 3025- Part 11	
2	Total Suspended Solids	36.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	Telephone No.
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.1	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	17	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

\* her rules Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/05

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/526D/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: 26/05/2024 27/05/2024 28/05/2024

25/05/2024

28/05/2024-04/06/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.89	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	μg/Nm3	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)	1.10	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 Khushbu Suthar MEDABAD VY

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/05

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/526D/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:

25/05/2024 26/05/2024 27/05/2024

28/05/2024-04/06/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Te	emperature	37	°C	GGMPL/SOP/MP/01	NS
13 Re	elative Humidity	42	%	GGMPL/SOP/MP/01	NS
14 Ra	ainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Le	ead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wi	ind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Khushbu Suthar

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End of Report --

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/06

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/526D/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:

USEPA Method IO 3.4

USEPA Method IO 3.4

25/05/2024

26/05/2024 27/05/2024

28/05/2024-04/06/2024

24 25±5°C

Sr.No **Parameters** Results Unit Test Method NAAQ Standards Particulate Matter (PM10) 63.04 IS 5182- Part 23 1 µg/m3 100 GGMPL/SOP/AA/60 Issue No.02 2 Particulate Matter (PM2.5) 32.91 µg/m3 60 August 01 Sulphur Dioxide (SO2) 3 15.92 µg/m3 IS 5182-Part 2 80 Nitrogen Dioxide (NO2) 4 23.52 µg/m3 IS 5182- Part 6 80 5 Ozone (O3) 14.80 µg/m3 IS 5182- Part 9 180 GGMPL/SOP/AA/62 Issue No.02 6 Ammonia (NH3) 11.39 µg/Nm3 400 August 01 7 Benzene BQL (QL=2.5) ug/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

ng/m3

ng/m3

BQL (QL=5)

BQL (QL=1)

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

Analyzed By Khushbu Suthar AHMEDABAD P

Authorized Signatory Manish Kumawat

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## Terms & Conditions

10

Nickel as Ni

Arsenic as As

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/06

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



28/05/2024-04/06/2024

# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/526D/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:

25±5°C

25/05/2024

26/05/2024

27/05/2024

.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Tempera	ature	38	°C	GGMPL/SOP/MP/01	NS NS
13 Relative	Humidity	43	%	GGMPL/SOP/MP/01	NS
4 Rainfall		0.0	mm	GGMPL/SOP/MP/01:2020	NS
5 Lead		BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
.6 Wind Spe	eed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS
.6 Wind Spe	eed	3.5	m/s	GGMPL/SOP/MP/01:2020	

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/07

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/526D/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:

25/05/2024 26/06/2024 27/05/2024

28/05/2024-04/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.59	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)	14.37	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.91	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.11	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/Nm3	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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/07

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/526D/79G/07

Laboratory Representative

Ambient Air

Ambient Temperature

Near Durg Chowk

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

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

25/05/2024 26/06/2024

27/05/2024 28/05/2024-04/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	43	%	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	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/08

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/526D/79G/08 Laboratory Representative Ambient Air Near Mine Vertical Shaft Ambient Temperature Satisfactory

 Sampling Start Date:
 25/05/2024

 Sampling End Date:
 26/05/2024

 Sample Receipt Date:
 27/05/2024

 Analysis start- End Date:
 28/05/2024-04/06/2024

Total Sampling hours: 24
Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.76	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.40	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.84	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.05	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	μg/Nm3	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)	1.08	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 Khushbu Suthar AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/08

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/526D/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:

25/05/2024 26/05/2024 27/05/2024

28/05/2024-04/06/2024

25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	39	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	44	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 39  Relative Humidity 44  Rainfall 0.0  Lead BQL (QL=0.001)	Temperature 39 °C Relative Humidity 44 % Rainfall 0.0 mm Lead BQL (QL=0.001) µg/m3	Temperature 39 °C GGMPL/SOP/MP/01 Relative Humidity 44 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) µg/m3 USEPA Method IO 3.4

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/526D/79G/09

M/s Moil Limited

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

(M.S)

Reporting Date: 05/06/2024



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

25/05/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/526D/79 G/09A	Nr Workshop	Day Time	dB(A)Leq	IS 4758	63.9	
2	Lab/PN/526D/79 G/09B	Nr Vertical Fan	Day Time	dB(A)Leq	IS 4758	62.8	-
3	Lab/PN/526D/79 G/09C	Nr Crushing Plant	Day Time	dB(A)Leq	IS 4758	64.6	
4	Lab/PN/526D/79 G/09D	Nr DG Set	Day Time	dB(A)Leq	IS 4758	65.9	s <b>-</b>

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit,QL= Quantification Limit,QL=  $\frac{C}{R}$ 

Analyzed By Khushbu Suthar

-- End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/529D/79G/01

M/s Moil Limited

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

(M.S)



# SAMPLE DETAILS

Lab ID:

Lab/PN/529D/79G/01

Sample Drawn By:

Laboratory Representative

Sample Type: Ground Water

Sample Description: Sample Quantity:

Officer Colony Water Supply (GW)

500 ml Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

25/05/2024

27/05/2024 28/05/2024 03/06/2024

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

Analyzed By Nidhi Shah

--- End of Report ---

CHAN

AHMEDAB

Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/01

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/525D/79F/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Railway Siding Office Drinking Water (DW)

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

25/05/2024

27/05/2024 27/05/2024

03/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	165.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	62.12	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	98.96	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	46.17	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable		IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.65	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
8	Sulphate	85.70	mg/L	APHA 23rd Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	404.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	345.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	12.00	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





Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/01

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/525D/79F/01

Sampling Date:

25/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

27/05/2024 27/05/2024

Sample Description:

Railway Siding Office Drinking Water (DW)

Analysis End Date:

03/06/2024

Sample Quantity: Sample Condition:

Satisfactory

Sampling Method:

GGMPL/WI/27A

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)	0.65	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	2.95	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 Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/02

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/525D/79F/02

Sampling Date:

25/05/2024

Sample Drawn By:

Laboratory Representative

Railway Siding Water Supply (GW)

Sample Receipt Date:

27/05/2024

Sample Type:

Analysis Start Date: Analysis End Date:

27/05/2024 03/06/2024

Sample Description: Sample Quantity: Sample Condition:

3.5 L

Sampling Method:

GGMPL/WI/27A

Satisfactory Packing:

Sealed

T Water					Sp	ecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	192.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	50.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	60.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4		15
5	Fluoride	0.65	mg/L	APHA 23rd Edn 4500 F D 1		1.5
6	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	80	100
7	Odour	Agreeable	-	IS 3025- Part 5	greeable	Agreeable
8	pH at 25 °C	7.75		IS 3025- Part 11 6	י א ווו א	No Relaxation
9	Sulphate	52.16	mg/L	APHA 23rd Edn 4500 SO4 E	.00	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 23rd Edn 2540 C 5	00	2000
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edn 2540 D	IS	NS

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/02

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/525D/79F/02

Sampling Date:

25/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

27/05/2024 27/05/2024

Sample Type: Sample Description:

Water Railway Siding Water Supply (GW)

Analysis Start Date: Analysis End Date:

03/06/2024

Sample Quantity: Sample Condition:

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing:

Sealed

Specification:

ters Results aCO3 225.00 BQL (QL=0.1)	Unit mg/L NTU	Test Method  APHA 23rd Edn 2340 C  APHA 23rd Edn 2130 B	AL 200	PL 600
		ENTS TRANSPORTED IN THE RESIDENCE	200	
BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	
				5
BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No
BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	Relaxation 0.3
3.96	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation
			5, 5, 5, 7, 20, 7, 10, 11, 10	206

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali AHMEDABAD End of Report ---

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Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/03

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/525D/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: 26/05/2024 27/05/2024

25/05/2024

27/05/2024-03/06/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.15	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	25.80	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.23	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.43	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	μg/Nm3	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 Priyanka Shrimali AHMEDABAD P

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/03

M/s Moil Limited

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

Reporting Date: 04/06/2024



## SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/525D/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:

25/05/2024 26/05/2024

27/05/2024 27/05/2024-03/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali AHMEDABAD P

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/04

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/525D/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: 25/05/2024

26/05/2024 27/05/2024

27/05/2024-03/06/2024

24

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.86	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	21.51	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.40	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.26	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	μg/Nm3	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)	1.08	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 Priyanka Shrimali

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/04

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/525D/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:

Total Sampling hours: Env. Cond.-Testing:

25/05/2024 26/05/2024 27/05/2024

27/05/2024-03/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/525D/79F/05

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

25/05/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/525D/79 F/05A	Weigh Bridge	Day Time	dB(A)Leq	IS 4758	67.1	
2	Lab/PN/525D/79 F/05B	Loading Unloading	Day Time	dB(A)Leq	IS 4758	69.2	-

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/528D/79F/01

M/s Moil Limited

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

Reporting Date: 03/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/528D/79F/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Railway Siding Office Drinking Water (DW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

25/05/2024

27/05/2024 28/05/2024

03/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

End of Report ---

AHMEDABAD

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/528D/79F/02

M/s Moil Limited

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

Reporting Date: 03/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/528D/79F/02

Sample Drawn By: Sample Type:

Laboratory Representative

Ground Water

Sample Description:

Sample Quantity:

Sample Condition:

Railway Siding Water Supply (GW)

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

25/05/2024

27/05/2024 28/05/2024

03/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 7	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2 E	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

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/01

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/527D/79H/01

Sample Drawn By: Sample Type:

Laboratory Representative

Surface Water

Sample Description:

Pathari Sand Lease River

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

25/05/2024

27/05/2024 27/05/2024 03/06/2024

GGMPL/WI/27A

Packing:

Sealed

1       Alkalinity as CaCO3       76.00       mg/L       APHA 23rd Edn 2320 B       -         2       Calcium as Ca       44.09       mg/L       APHA 23rd Edn 3500 Ca B       -         3       Chloride       50.98       mg/L       IS 3025- Part 32       -         4       Colour       BQL (QL=1)       CU       IS 3025- Part 4       -         5       Fluoride       0.30       mg/L       APHA 23rd Edn 4500 F D       -         6       Magnesium as Mg       17.01       mg/L       APHA 23rd Edn 3500 Mg B       -         7       Odour       Agreeable       -       IS 3025- Part 5       -         8       pH at 25 °C       7.59       -       IS 3025- Part 11       -         9       Sulphate       28.47       mg/L       APHA 23rd Edn 4500 SO4 E       -         10       Total Dissolved Solids (TDS)       258.00       mg/L       APHA 23rd Edn 2540 C       -	rm	Norm	Test Method	Unit	Results	Parameters	Sr.No
3 Chloride 50.98 mg/L IS 3025- Part 32 - 4 Colour BQL (QL=1) CU IS 3025- Part 4 - 5 Fluoride 0.30 mg/L APHA 23rd Edn 4500 F D - 6 Magnesium as Mg 17.01 mg/L APHA 23rd Edn 3500 Mg B - 7 Odour Agreeable - IS 3025- Part 5 - 8 pH at 25 °C 7.59 - IS 3025- Part 11 - 9 Sulphate 28.47 mg/L APHA 23rd Edn 4500 SO4 E - 10 Total Dissolved Solids (TDS) 258.00 mg/L APHA 23rd Edn 2540 C -		-	APHA 23rd Edn 2320 B	mg/L	76.00	Alkalinity as CaCO3	1
4 Colour BQL (QL=1) CU IS 3025- Part 4 - 5 Fluoride 0.30 mg/L APHA 23rd Edn 4500 F D - 6 Magnesium as Mg 17.01 mg/L APHA 23rd Edn 3500 Mg B - 7 Odour Agreeable - IS 3025- Part 5 - 8 pH at 25 °C 7.59 - IS 3025- Part 11 - 9 Sulphate 28.47 mg/L APHA 23rd Edn 4500 SO4 E - 10 Total Dissolved Solids (TDS) 258.00 mg/L APHA 23rd Edn 2540 C -			APHA 23rd Edn 3500 Ca B	mg/L	44.09	Calcium as Ca	2
5       Fluoride       0.30       mg/L       APHA 23rd Edn 4500 F D       -         6       Magnesium as Mg       17.01       mg/L       APHA 23rd Edn 3500 Mg B       -         7       Odour       Agreeable       -       IS 3025- Part 5       -         8       pH at 25 °C       7.59       -       IS 3025- Part 11       -         9       Sulphate       28.47       mg/L       APHA 23rd Edn 4500 SO4 E       -         10       Total Dissolved Solids (TDS)       258.00       mg/L       APHA 23rd Edn 2540 C       -			IS 3025- Part 32	mg/L	50.98	Chloride	3
6 Magnesium as Mg 17.01 mg/L APHA 23rd Edn 3500 Mg B - 7 Odour Agreeable - IS 3025- Part 5 - 8 pH at 25 °C 7.59 - IS 3025- Part 11 - 9 Sulphate 28.47 mg/L APHA 23rd Edn 4500 SO4 E - 10 Total Dissolved Solids (TDS) 258.00 mg/L APHA 23rd Edn 2540 C -			IS 3025- Part 4	CU	BQL (QL=1)	Colour	4
7 Odour       Agreeable       -       IS 3025- Part 5       -         8 pH at 25 °C       7.59       -       IS 3025- Part 11       -         9 Sulphate       28.47       mg/L       APHA 23rd Edn 4500 SO4 E       -         10 Total Dissolved Solids (TDS)       258.00       mg/L       APHA 23rd Edn 2540 C       -		-	APHA 23rd Edn 4500 F D	mg/L	0.30	Fluoride	5
8       pH at 25 °C       7.59       -       IS 3025- Part 11       -         9       Sulphate       28.47       mg/L       APHA 23rd Edn 4500 SO4 E       -         10       Total Dissolved Solids (TDS)       258.00       mg/L       APHA 23rd Edn 2540 C       -			APHA 23rd Edn 3500 Mg B	mg/L	17.01	Magnesium as Mg	6
9 Sulphate 28.47 mg/L APHA 23rd Edn 4500 SO4 E -  10 Total Dissolved Solids (TDS) 258.00 mg/L APHA 23rd Edn 2540 C -		-	IS 3025- Part 5	="	Agreeable	Odour	7
10 Total Dissolved Solids (TDS) 258.00 mg/L APHA 23rd Edn 2540 C -			IS 3025- Part 11	-	7.59	pH at 25 °C	8
		-	APHA 23rd Edn 4500 SO4 E	mg/L	28.47	Sulphate	9
11 Total Suspended Solids (TSS) BOL (OL = 5) mg/L APHA 23rd Edn 2540 D			APHA 23rd Edn 2540 C	mg/L	258.00	Total Dissolved Solids (TDS)	10
TI Total Suspended Solids (1997) SQL (QL=9) High		-	APHA 23rd Edn 2540 D	mg/L	BQL (QL=5)	Total Suspended Solids (TSS)	11
12 Total Hardness as CaCO3 180.00 mg/L APHA 23rd Edn 2340 C -			APHA 23rd Edn 2340 C	mg/L	180.00	Total Hardness as CaCO3	12

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



Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/01

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/527D/79H/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Surface Water

Sample Description:

Pathari Sand Lease River

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

25/05/2024 27/05/2024 27/05/2024

27/05/2024 03/06/2024

GGMPL/WI/27A

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	3.64	mg/L	APHA 23rd Edn 4500 NO3 B	

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

Analyzed By Dishant Patel

--- End of Report ---

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Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/02

M/s Moil Limited

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

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/527D/79H/02

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Pathari Sand Lease2 km From Site (GW)

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

25/05/2024

27/05/2024 27/05/2024

03/06/2024 GGMPL/WI/27A

Sealed

Specification:

					- 1	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	46.09	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	52.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.33	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.69	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.41		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	18.53	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	260.00	mg/L	APHA 23rd Edn 2540 C	500	1000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	159.0000	mg/L	APHA 23rd Edn 2340 C	200	600

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/527D/79H/02

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/527D/79H/02

Pathari Sand Lease2 km From Site (GW)

Sampling Date: Sample Receipt Date: 25/05/2024 27/05/2024

Sample Type:

Laboratory Representative Water

Analysis Start Date:

27/05/2024 03/06/2024

Sample Description: Sample Quantity:

Sample Condition:

3.5 L Satisfactory Analysis End Date: Sampling Method:

03/06/2024 GGMPL/WI/27A

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	2.60	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 Dishant Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/03

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/527D/79H/03

Sampling Date: 25/05/2024 Sample Receipt Date:

Sample Drawn By: Sample Type:

Laboratory Representative

27/05/2024 27/05/2024

Sample Description:

Pathari Village Borewell (GW)

03/06/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Method:

Analysis Start Date:

Analysis End Date:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	118.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	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	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.18	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.38		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	38.61	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	250.00	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	144.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By Dishant Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/03

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/527D/79H/03

Sampling Date:

25/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

27/05/2024 27/05/2024

Sample Description:

Pathari Village Borewell (GW)

Analysis End Date: Sampling Method:

03/06/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5 L 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	1.0	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	1.65	mg/L	APHA 23rd Edn 4500 NO3 B	0.00000	0.00000

AL & PL As Per IS 10500.

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



\* End of Report ---

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/04

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/527D/79H/04

Laboratory Representative

Sample Type: Sample Description:

Sample Drawn By:

Pathari Village Tola Borewell (GW)

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

25/05/2024

27/05/2024 27/05/2024 03/06/2024 GGMPL/WI/27A

Sealed

Specification:

					1000	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	58.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.16	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.09	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.28		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	15.41	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	265.00	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	159.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/04

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/527D/79H/04

Sampling Date: Sample Receipt Date:

25/05/2024 27/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Analysis Start Date:

27/05/2024 03/06/2024

Sample Description:

Pathari Village Tola Borewell (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5 L 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	3.35	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 Dishant Patel AHMEDABAD End of Report ---

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/05

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/527D/79H/05

Laboratory Representative

Ambient Air

Pathari Sand lease from 500m

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

25/05/2024 26/05/2024 27/05/2024

27/05/2024-03/06/2024

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.17	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)	18.01	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.43	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.02	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	μg/Nm3	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 Dishant Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/05

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/527D/79H/05

Laboratory Representative

Ambient Air

Pathari Sand lease from 500m

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 25/05/2024

26/05/2024 27/05/2024

27/05/2024-03/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Rainfall	00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

--- End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/06

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/527D/79H/06

Laboratory Representative

Ambient Air

Hall Road of sand Lease 2 km east

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

25/05/2024 26/05/2024 27/05/2024

27/05/2024-03/06/2024

24

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.20	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.06	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.11	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.96	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	μg/Nm3	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

Analyzed By Dishant Patel Quantification that

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/06

M/s Moil Limited

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

Reporting Date: 04/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/527D/79H/06

Laboratory Representative

Ambient Air

Hall Road of sand Lease 2 km east

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

25/05/2024

26/05/2024 27/05/2024

27/05/2024-03/06/2024

24 Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	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	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel AHMEDABAD

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/07

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/527D/79H/07

Laboratory Representative

Ambient Air

Point of Sand Lease Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

26/05/2024 27/05/2024

25/05/2024

27/05/2024-03/06/2024 24

.25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.68	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.87	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.96	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	μg/Nm3	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)	1.15	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

Analyzed By Dishant Patel

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

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Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/07

M/s Moil Limited

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

Reporting Date: 04/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/527D/79H/07

Laboratory Representative

Ambient Air

Point of Sand Lease Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 25/05/2024 26/05/2024

27/05/2024 27/05/2024-03/06/2024

2//05/2024-03/06/20 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	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	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel AHMEDABAD \*\*

--- End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/08

M/s Moil Limited

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

Reporting Date: 04/06/2024



## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/527D/79H/08 Laboratory Representative

Ambient Air Pathari Village Ambient Temprature

Satisfactory

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

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

26/05/2024 27/05/2024

25/05/2024

27/05/2024-03/06/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.17	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.08	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.84	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	μg/Nm3	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)	1.12	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

Analyzed By Dishant Patel

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/08

M/s Moil Limited

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

Reporting Date: 04/06/2024



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/527D/79H/08 Laboratory Representative

Ambient Air Pathari Village Ambient Temprature

Satisfactory

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

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 26/05/2024 27/05/2024 27/05/2024-0

25/05/2024

27/05/2024-03/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	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	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

Analyzed By Dishant Patel Quantification with the AHMEDABAD AH

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/527D/79H/09

M/s Moil Limited

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

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

25/05/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/527D/79 H/09A	Pathari Sand Lease From 500 m	Day Time	dB(A)Leq	IS 4758	64.8	-
2	Lab/PN/527D/79 H/09B	Hall Road of sand lease 1 km east	Day Time	dB(A)Leq	IS 4758	64.5	
3	Lab/PN/527D/79 H/09C	Point of sand lease	Day Time	dB(A)Leq	IS 4758	67.4	-
4	Lab/PN/527D/79 H/09D	Pathari Village	Day Time	dB(A)Leq	IS 4758	65.1	

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

Analyzed By Dishant Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/530D/79H/01

M/s Moil Limited

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

Reporting Date: 03/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/530D/79H/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Surface Water

Sample Description:

Pathari sand lease River

Sample Quantity: 500 ml Sample Condition:

Satisfactory

Sampling Date:

25/05/2024 Sample Receipt Date: 27/05/2024

Analysis Start Date:

28/05/2024

Analysis End Date: Sampling Method:

03/06/2024 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1 7	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	-
2 E	E. coli	Absent	per 100ml	APLIA 9221G 24th Edition	

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

Nidhi Shah

End of Report ---

AHMEDABAD

Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/530D/79H/02

M/s Moil Limited

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

Reporting Date: 03/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/530D/79H/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Sample Condition:

Pathari Sand Lease 2 km From Site (GW)

Sample Quantity: 500 ml

C-+:-

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

25/05/2024

27/05/2024 28/05/2024

03/06/2024 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

Analyzed By Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/530D/79H/03

M/s Moil Limited

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

Reporting Date: 03/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/530D/79H/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity: Pathari Village Borewell (GW)

500 ml

Sample Condition:

Satisfactory

Sampling Date:

25/05/2024

Sample Receipt Date:

27/05/2024 28/05/2024

Analysis Start Date: Analysis End Date:

03/06/2024

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 Lim

Analyzed By Nidhi Shah Quantification Limit

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/530D/79H/04

M/s Moil Limited

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

Reporting Date: 03/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Lab/PN/530D/79H/04

Laboratory Representative

Ground Water

Pathari Village (Tola) Borewell (GW)

500 ml

Sample Condition: Satisfactory Sampling Date:

25/05/2024

Sample Receipt Date:

27/05/2024

Analysis Start Date:

28/05/2024

Analysis End Date: Sampling Method:

03/06/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 T	otal 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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