

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/951C/79G/V2/01

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/951C/79G/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Waste Water STP Outlet (WW)

Sample Quantity: Sample Condition:

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

07/08/2023

10/08/2023 11/08/2023 18/08/2023

GGMPL/WI/27A

Sealed

5	r.No	Parameters	Results	Unit	Test Method	Norm
	1	pH at 25 °C	7.52	-	IS 3025- Part 11	NS
	2	Total Suspended Solids	46.00	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	60.00	mg/L	APHA 23rd Edn 5220 B	100
	5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	NS
	6	BOD at 27 o C for 3 days	19	mg/L	IS 3025- Part 44	30
	7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/02

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/951C/79G/V2/02

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Officer Colony Water Supply (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

07/08/2023

10/08/2023

11/08/2023 18/08/2023

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	53.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.25	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	22.18	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	357.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	177.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	15.00	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 Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/951C/79G/V2/02

Sampling Date:

07/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

10/08/2023 11/08/2023

Sample Type: Sample Description: Water Officer Colony Water Supply (GW)

Analysis End Date:

18/08/2023 GGMPL/WI/27A

Sample Quantity:

3.5L

Sampling Method:

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.91	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

Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/02A

M/s Moil Limited

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

(M.S)

SAMPLE DETAILS

Lab ID:

Lab/PN/951C/79G/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Officer Colony Water Supply (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

07/08/2023

10/08/2023 11/08/2023

18/08/2023 GGMPL/WI/27A

Sealed

Specification:

Reporting Date: 19/08/2023

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/03

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/951C/79G/V2/03

Sample Drawn By: Sample Type:

Laboratory Representative

Waste Water

Sample Description:

ETP Outlet (WW)

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

07/08/2023

10/08/2023 11/08/2023 18/08/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.37	-1	IS 3025- Part 11	5.5 8.5
2	Total Suspended Solids	41.00	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	70.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.20	mg/L	IS 3025- Part 38	7
6	BOD at 27 o C for 3 days	17	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	NS

Norms as Per CCA

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

Aarmi Pate



Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/04

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/951C/79G/V2/04

La

Sample Drawn By:

Laboratory Representative

Mine Discharge Water (WW)

Sample Receipt Date:

Sampling Date:

07/08/2023 10/08/2023

Sample Type:

Water

Analysis Start Date: Analysis End Date:

11/08/2023 18/08/2023

Sample Description: Sample Quantity:

3.5L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No Parameters	Results	Unit	Test Method	Norm
1 pH at 25 °C	7.42		IS 3025- Part 11	
2 Total Suspended Solids	37.00	mg/L	APHA 23rd Edn 2540 D	
3 Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4 Chemical Oxygen Demand	90.00	mg/L	APHA 23rd Edn 5220 B	
5 Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	_
6 BOD at 27 o C for 3 days	26.00	mg/L	IS 3025- Part 44	
7 Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Aarmi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

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M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/951C/79G/V2/05

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:

07/08/2023

08/08/2023 10/08/2023

11/08/2023-18/08/2023

24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.35	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.25	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.45	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.08	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	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
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/951C/79G/V2/05

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: 07/08/2023 08/08/2023

10/08/2023

11/08/2023-18/08/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel ECHANIS TO WITH AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/06

M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/951C/79G/V2/06 Laboratory Representative

Ambient Air

Satisfactory

Near Sita sawangi Village Ambient Temperature

Sampling Start Date: 07/08/2023 Sampling End Date: 08/08/2023

Sample Receipt Date: 10/08/2023 Analysis start- End Date: 11/08/2023-18/08/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.61	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.98	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.35	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.94	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.18	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	0.62	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/06

M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/951C/79G/V2/06

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:

11/08/2023-18/08/2023 24

25±5°C

07/08/2023

08/08/2023

10/08/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/07

M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/951C/79G/V2/07

Laboratory Representative

Ambient Air

Near Durga Chowk Ambient Temperature

Satisfactory

Sampling Start Date: 07/08/2023 Sampling End Date: 08/08/2023

Sample Receipt Date:

Analysis start- End Date:

10/08/2023 11/08/2023-18/08/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.45	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)	15.05	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.29	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.68	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	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)	1.06	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/07

M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/951C/79G/V2/07 Laboratory Representative

Ambient Air Near Durga Chowk

Ambient Temperature Satisfactory

Sampling Start Date: 07/08/2023 Sampling End Date: 08/08/2023 10/08/2023

Sample Receipt Date:

11/08/2023-18/08/2023 Analysis start- End Date:

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/08

M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023

TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/951C/79G/V2/08

Laboratory Representative

Ambient Air

Near Mine Vertical Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

07/06/2023

08/08/2023 10/08/2023

11/08/2023-18/08/2023

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.78	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)	12.83	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.94	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.57	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.37	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)	1.07	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
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/08

M/s Moil Limited

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

(M.S)

Reporting Date: 19/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/951C/79G/V2/08

Laboratory Representative

Ambient Air

Near Mine Vertical Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours

07/06/2023 08/08/2023 10/08/2023

11/08/2023-18/08/2023

Total Sampling Hours.	27
Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/951C/79G/V2/09

M/s Moil Limited Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 19/08/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

07/08/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/951C/79 G/V2/09A	Nr Work Shop	Day Time	dB(A)Leq	IS 4758	64.2	75
2	Lab/PN/951C/79 G/V2/09B	Nr Vertical Fan	Day Time	dB(A)Leq	IS 4758	62.3	75
3	Lab/PN/951C/79 G/V2/09c	Nr crushing Plant	Day Time	dB(A)Leq	IS 4758	66.8	75
4	Lab/PN/951C/79 G/V2/09D	Nr DG Set	Day Time	dB(A)Leq	IS 4758	64.5	75

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

Analyzed By



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Page No: 1/1

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Finail Id., lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/01

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/950C/79F/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Mator

Sample Description:

Railway Siding Office Drinking Water (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

07/08/2023 10/08/2023

11/08/2023 17/08/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.32	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO3	137.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	43.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	54.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.48	mg/L	APHA 23rd Edn 4500 F D	1	5
7	Magnesium as Mg	18.95	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.99	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	332.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	186.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	16.00	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

ABPady

Analyzed By Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/01

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/950C/79F/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Railway Siding Office Drinking Water (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

07/08/2023

10/08/2023

11/08/2023

17/08/2023

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.38	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 Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/01A

M/s Moil Limited

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

Reporting Date: 18/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/950C/79F/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Motor

Sample Description:

Railway Siding Office Drinking Water (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

07/08/2023

Sample Receipt Date:

10/08/2023

Analysis Start Date: Analysis End Date: 11/08/2023 17/08/2023

Sampling Method:

17/08/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL AS per IS 10500

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

ABPUT

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/02

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/950C/79F/V2/02

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

Railway Siding Water Supply (GW)

Sample Quantity: 3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

07/08/2023

10/08/2023 11/08/2023

17/08/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO3	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	33.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	46.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.85	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	356.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	174.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	12.00	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

Apply

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/02

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/950C/79F/V2/02

Laboratory Representative

Sample Drawn By: Sample Type:

Sample Description:

Railway Siding Water Supply (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

07/08/2023

Sample Receipt Date: Analysis Start Date:

10/08/2023 11/08/2023

Analysis End Date: Sampling Method:

17/08/2023 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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.21	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 Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/02A

M/s Moil Limited

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

Reporting Date: 18/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/950C/79F/V2/02

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Railway Siding Water Supply (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

07/08/2023

10/08/2023 11/08/2023 17/08/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL AS Per IS 10500

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/03

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/950C/79F/V2/03 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:

11/08/2023-17/08/2023

25±5°C

07/08/2023

08/08/2023

10/08/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.46	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.13	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.06	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	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)	1.05	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
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS

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

Aarmi Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/03

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/950C/79F/V2/03 Laboratory Representative Ambient Air Near Weigh Bridge Ambient Temperature Satisfactory

 Sampling Start Date:
 07/08/2023

 Sampling End Date:
 08/08/2023

 Sample Receipt Date:
 10/08/2023

 Analysis start- End Date:
 11/08/2023-17/08/2023

Total Sampling hours: 24 Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel AHMEDABAD WATER OF STREET OF STREET

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/04

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/950C/79F/V2/04

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: 07/08/2023

08/08/2023 10/08/2023

11/08/2023-17/08/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.42	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.15	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.89	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.06	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

ABPUT

Analyzed By Aarmi Patel CHAN/SILOS & COLO & COL

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/04

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/950C/79F/V2/04 Laboratory Representative Ambient Air Near Railway Siding Ambient Temperature Satisfactory

 Sampling Start Date:
 07/08/2023

 Sampling End Date:
 08/08/2023

 Sample Receipt Date:
 10/08/2023

 Analysis start- End Date:
 11/08/2023-17/08/2023

 Total Sampling hours:
 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1.
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel AHMEDABAD VI

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/950C/79F/V2/05

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

07/08/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/950C/79 F/V2/05A	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	58.3	75
2	Lab/PN/950C/79 F/V2/05B	Nr Loading And Unloading	Day Time	dB(A)Leq	IS 4758	61.5	75

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

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/01

M/s Moil Limited

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

Reporting Date: 22/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Pathari sand lease River (SW)

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

07/08/2023

10/08/2023 11/08/2023 21/08/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.43	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	44.89	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	32.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.38	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	18.47	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.41	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	266.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	188.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/01

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/01

Laboratory Representative

Water

Sample Type: Sample Description:

Sample Drawn By:

Pathari sand lease River (SW)

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Possint Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 07/08/2023

10/08/2023 11/08/2023

21/08/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.24	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.46	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 Sachi Patel

Authorized Signatory Payal Patel

P.B.Rut

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/01A

M/s Moil Limited

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

Reporting Date: 22/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

Pathari sand lease River (SW)

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

07/08/2023

Sample Receipt Date:

10/08/2023

Analysis Start Date:

11/08/2023

Analysis End Date:

21/08/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel



Authorized Signatory

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/02

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/02

Laboratory Representative

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Water

Pathari Sand Lease 2 km From Site (GW)

3.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

11/08/2023 21/08/2023

07/08/2023

10/08/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.29	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	52.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.37	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.93	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.41	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	178.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.00	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 Sachi Patel



Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/02

M/s Moil Limited

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

Reporting Date: 22/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/02

Sampling Date:

07/08/2023

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

10/08/2023 11/08/2023

Sample Description:

Pathari Sand Lease 2 km From Site (GW)

Analysis End Date:

21/08/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.86	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.27	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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Analyzed By Sachi Patel



Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/02A

M/s Moil Limited

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

Reporting Date: 22/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Pathari Sand Lease 2 km From Site (GW)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

07/08/2023

Sample Receipt Date: Analysis Start Date:

10/08/2023 11/08/2023

Analysis End Date:

21/08/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/03

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Pathari Village Borewell (GW)

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

Sampling Date: Sample Receipt Date:

10/08/2023

Analysis Start Date: Analysis End Date: 11/08/2023 21/08/2023

07/08/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.34	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	40.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.93	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	¥	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.62	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	282.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	186.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	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

Sachi

Analyzed By Sachi Patel



Authorized Signatory Payal Patel

P.B. Aug

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/03

M/s Moil Limited

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

Reporting Date: 22/08/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/952C/79H/V2/03

Sampling Date: 07/08/2023

Laboratory Representative

Sample Receipt Date: 10/08/2023 Analysis Start Date: 11/08/2023

Sample Description:

Pathari Village Borewell (GW) Analysis End Date: Sampling Method:

21/08/2023 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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.92	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 Sachi Patel



Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/03A

M/s Moil Limited

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

Reporting Date: 22/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Pathari Village Borewell (GW)

Sample Quantity: Sample Condition: 3.5 L Satisfactory Sampling Date:

07/08/2023

Sample Receipt Date:

10/08/2023

Analysis Start Date:

11/08/2023 21/08/2023

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/04

M/s Moil Limited

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

Reporting Date: 22/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/04

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Pathari Village (Tola) Borewell (GW) 3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Packing:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

21/08/2023 GGMPL/WI/27A

07/08/2023

10/08/2023

11/08/2023

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.40	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	124.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	51.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.44	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	13.56	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	294.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	162.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	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 Sachi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/04

M/s Moil Limited

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

Reporting Date: 22/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/04

Sampling Date:

07/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

10/08/2023 11/08/2023

Sample Type:

Analysis Start Date: Analysis End Date:

21/08/2023

Sample Description: Sample Quantity:

Sample Condition:

Pathari Village (Tola) Borewell (GW) 3.5 L

Sampling Method:

GGMPL/WI/27A

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
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

Sachi Patel

HAY

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/04A

M/s Moil Limited

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

Reporting Date: 22/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/952C/79H/V2/04

Sample Drawn By:

Sample Condition:

Laboratory Representative

Sample Type: Sample Description:

Pathari Village (Tola) Borewell (GW)

Sample Quantity:

3.5 L Satisfactory Sampling Date:

07/08/2023

Sample Receipt Date:

10/08/2023

Analysis Start Date:

11/08/2023 21/08/2023

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/05

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/952C/79H/V2/05 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:

Total Sampling hours: Env. Cond.-Testing: 08/08/2023 10/08/2023

07/08/2023

11/08/2023-21/08/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.13	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.91	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.89	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.68	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	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)	1.11	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
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Sachi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/05

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/952C/79H/V2/05

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:

07/08/2023

08/08/2023 10/08/2023

11/08/2023-21/08/2023

25±5°C

Task Makkad	NIAAO Charalas

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/06

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/952C/79H/V2/06

Laboratory Representative

Ambient Air

Haul 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:

07/08/2023 08/08/2023

10/08/2023

11/08/2023-21/08/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.77	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.57	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.50	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.26	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.06	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Sachi Patel



Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/06

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/952C/79H/V2/06

Laboratory Representative

Ambient Air

Haul 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:

11/08/2023-21/08/2023 Env. Cond.-Testing:

25±5°C

07/08/2023

08/08/2023

10/08/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	111
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/07

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/952C/79H/V2/07 Laboratory Representative

Ambient Air

Point of Sand Lease Ambient Temperature

Satisfactory

Sampling Start Date: 07/08/2023 Sampling End Date: 08/08/2023 Sample Receipt Date: 10/08/2023

Analysis start- End Date: 11/08/2023-21/08/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.57	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.73	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.81	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.68	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Sachi Patel



Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/07

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/952C/79H/V2/07

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: 07/08/2023 08/08/2023 10/08/2023

11/08/2023-21/08/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel AHMEDABAD PV

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/08

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/952C/79H/V2/08

Laboratory Representative

Ambient Air Pathari Village

Ambient Temperature

Satisfactory

Sampling Start Date: 07/08/2023

Sampling End Date: 08/08/2023 Sample Receipt Date: 10/08/2023

Analysis start- End Date:

11/08/2023-21/08/2023

Total Sampling hours: 24 Env. Cond.-Testing: 25

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.38	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)	11.70	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.32	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.68	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/08

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/952C/79H/V2/08

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:

07/08/2023 08/08/2023

10/08/2023

11/08/2023-21/08/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
	ve Humidity	60	%	GGMPL/SOP/MP/01	NS
14 Lead		BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15 Wind	Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/952C/79H/V2/09

M/s Moil Limited

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

Reporting Date: 22/08/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

07/08/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/952C/79 H/V2/09A	Pathari Sand Lease From 500 m	Day Time	dB(A)Leq	IS 4758	56.1	75
2	Lab/PN/952C/79 H/V2/09B	Haul Road of Sand Lease 2km East	Day Time	dB(A)Leq	IS 4758	54.9	75
3	Lab/PN/952C/79 H/V2/09C	Foint of Salid Lease	Day Time	dB(A)Leq	IS 4758	55.8	75
4	Lab/PN/952C/79 H/V2/09D	Pathari Village	Day Time	dB(A)Leq	IS 4758	59.2	75

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

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