

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2391C/79G/V4/01

Reporting Date : 07/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/01	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Waste Water	Analysis Start Date:	26/02/2024
Sample Description:	STP Outlet (WW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

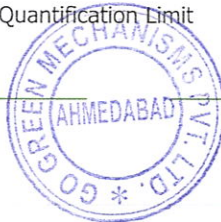
Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.63	-	IS 3025- Part 11	NS
2	Total Suspended Solids	48.00	mg/L	APHA 23rd Edn 2540 D	50
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	5.60	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	23	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  
Nidhi Shah



--- End of Report ---



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2391C/79G/V4/02

Reporting Date : 07/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/02	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

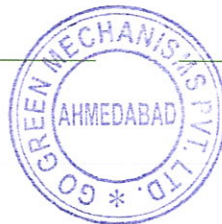
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	150.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	68.47	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.58	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	52.27	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	348.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	178.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	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

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Nidhi Shah



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Manish Kumawat

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Report Number: GGMPL/PN/2391C/79G/V4/02

Reporting Date : 07/03/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/02	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

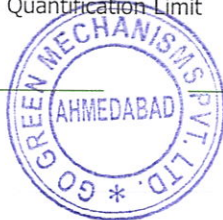
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron 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	3.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

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Nidhi Shah



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2391C/79G/V4/02A

Reporting Date : 07/03/2024

M/s Moil Limited

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

### SAMPLE DETAILS


Lab ID:	Lab/PN/2391C/79G/V4/02	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2391C/79G/V4/03

Reporting Date : 07/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/03	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Waste Water	Analysis Start Date:	26/02/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	-	IS 3025- Part 11	5.5 to 8.5
2	Total Suspended Solids	34.00	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	100.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.60	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	29	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

*Nidhi*  
Analyzed By  
Nidhi Shah



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Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2391C/79G/V4/04

M/s Moil Limited

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

Reporting Date : 07/03/2024




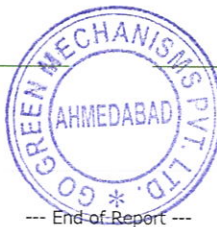
### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/04	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.69	-	IS 3025- Part 11	-
2	Total Suspended Solids	40.00	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	5.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	33	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

  
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Reporting Date: 07/03/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/05	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.05	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.80	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	17.094	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

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

*Nidhi*

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Nidhi Shah



*Manish*

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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/2391C/79G/V4/05	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

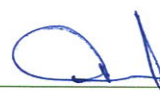
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Nidhi Shah



--- End of Report ---



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2391C/79G/V4/06

Reporting Date: 07/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/06	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Sita sawangi Village	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.75	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)	13.69	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.20	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.97	µg/m3	IS 5182- Part 9	100
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)	1.08	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

*Nidhi*

Analyzed By  
Nidhi Shah



*Manish*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2391C/79G/V4/06

Reporting Date: 07/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/06	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Sita sawangi Village	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Nidhi*

Analyzed By  
Nidhi Shah



*Manish*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2391C/79G/V4/07

Reporting Date: 07/03/2024

M/s Moil Limited

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




TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/07	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Durga Chowk	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.56	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.40	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.35	µg/m3	IS 5182- Part 9	100
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)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2391C/79G/V4/07

Reporting Date: 07/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

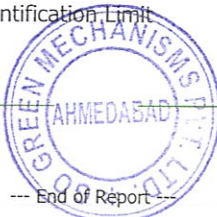
Lab ID:	Lab/PN/2391C/79G/V4/07	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Durga Chowk	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Nidhi Shah



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2391C/79G/V4/08

Reporting Date: 07/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/08	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Mine Vertical Shaft	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.02	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)	10.73	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.14	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.28	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	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

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



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2391C/79G/V4/08

Reporting Date: 07/03/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/2391C/79G/V4/08	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Mine Vertical Shaft	Analysis start- End Date:	26/02/2024-06/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2391C/79G/V4/09

Reporting Date: 07/03/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 22/02/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2391C/79G/V4/09A	Nr Workshop	Day Time	dB(A)Leq	IS 4758	64.4	-
2	Lab/PN/2391C/79G/V4/09B	Nr Vertical Fan	Day Time	dB(A)Leq	IS 4758	62.1	-
3	Lab/PN/2391C/79G/V4/09C	Nr Crushing Plant	Day Time	dB(A)Leq	IS 4758	65.6	-
4	Lab/PN/2391C/79G/V4/09D	Nr DG Set	Day Time	dB(A)Leq	IS 4758	66.8	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2390C/79F/V4/01

Reporting Date : 04/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2390C/79F/V4/01	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Railway Siding Office Drinking Water (DW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.72	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	155.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	54.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	79.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.50	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	23.08	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	75.01	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	380.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	230.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	18.00	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

  
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Priyanka Shrimali



  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2390C/79F/V4/01

Reporting Date : 04/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

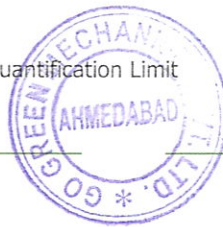
Lab ID:	Lab/PN/2390C/79F/V4/01	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Railway Siding Office Drinking Water (DW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron 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	2.02	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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



  
Analyzed By  
Priyanka Shrimali

  
Authorized Signatory  
Manish Kumawat

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2390C/79F/V4/01A

Reporting Date : 04/03/2024

M/s Moil Limited

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

### SAMPLE DETAILS


Lab ID:	Lab/PN/2390C/79F/V4/01	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Railway Siding Office Drinking Water (DW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	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/100ml)	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  
Priyanka Shrimali



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2390C/79F/V4/02

M/s Moil Limited

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

Reporting Date : 04/03/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2390C/79F/V4/02	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.52	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	180.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.09	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	49.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.50	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	25.51	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	50.09	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	205.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2390C/79F/V4/02

M/s Moil Limited

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

Reporting Date : 04/03/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/2390C/79F/V4/02	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron 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	3.21	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

  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2390C/79F/V4/02A

Reporting Date : 04/03/2024

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/2390C/79F/V4/02	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2390C/79F/V4/03

Reporting Date: 04/03/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/2390C/79F/V4/03	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	26/02/2024-02/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	20.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.54	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.20	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.52	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

  
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Priyanka Shrimali



  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2390C/79F/V4/03

Reporting Date: 04/03/2024

M/s Moil Limited

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

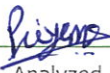


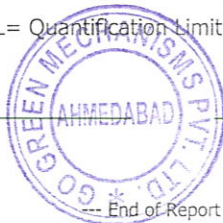
### SAMPLE DETAILS

Lab ID:	Lab/PN/2390C/79F/V4/03	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	26/02/2024-02/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2390C/79F/V4/04

Reporting Date: 04/03/2024

M/s Moil Limited

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

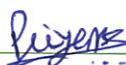


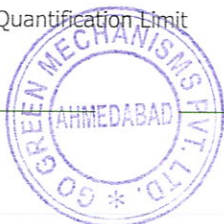
### SAMPLE DETAILS

Lab ID:	Lab/PN/2390C/79F/V4/04	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Railway Siding	Analysis start- End Date:	26/02/2024-02/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.03	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.77	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.56	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.38	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)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2390C/79F/V4/04

Reporting Date: 04/03/2024

M/s Moil Limited

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




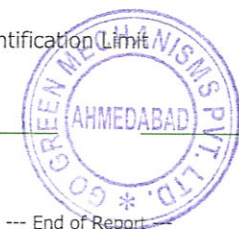
### SAMPLE DETAILS

Lab ID:	Lab/PN/2390C/79F/V4/04	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Railway Siding	Analysis start- End Date:	26/02/2024-02/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Priyanka Shrimali



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2390C/79F/V4/05

Reporting Date: 04/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory representative

Sampling Date:

22/02/2024

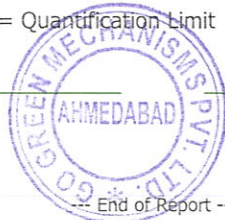
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2390C/79F/V4/05A	Weigh Bridge	Day Time	dB(A)Leq	IS 4758	63.9	-
2	Lab/PN/2390C/79F/V4/05B	Loading Unloading	Day Time	dB(A)Leq	IS 4758	64.3	-

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Analyzed By  
Priyanka Shrimali



  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/01

M/s Moil Limited

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

Reporting Date : 08/03/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/01	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Pathari sand lease River (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.02	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	122.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	31.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.27	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.93	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	297.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	170.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By  
Kinjal Damor



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Manish Kumawat

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Report Number: GGMPL/PN/2402C/79H/V4/01

M/s Moil Limited

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

Reporting Date : 08/03/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/01	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Pathari sand lease River (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	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	3.25	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

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Kinjal Damor



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/01A

Reporting Date : 08/03/2024

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/01	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Pathari sand lease River (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

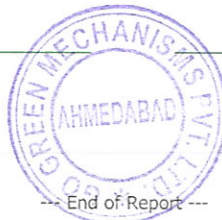
Specification:

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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/02

M/s Moil Limited

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

Reporting Date : 08/03/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/02	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Pathari sand lease 2 km from Site (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	122.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	31.66	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	45.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.33	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.73	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.83	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	256.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	152.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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Reporting Date : 08/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/02	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Pathari sand lease 2 km from Site (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron 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	2.79	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2402C/79H/V4/02A

Reporting Date : 08/03/2024

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/02	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Pathari sand lease 2 km from Site (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/03

Reporting Date : 08/03/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/2402C/79H/V4/03  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: (G.W) Pathari Village BoreWell  
Sample Quantity: 4.7 L  
Sample Condition: Satisfactory

Sampling Date: 23/02/2024  
Sample Receipt Date: 26/02/2024  
Analysis Start Date: 27/02/2024  
Analysis End Date: 07/03/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.52	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	125.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	34.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.26	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	16.03	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	247.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	176.00	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  
Kinjal Damor



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Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/03

M/s Moil Limited

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

Reporting Date : 08/03/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/2402C/79H/V4/03  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: (G.W) Pathari Village BoreWell  
Sample Quantity: 4.7 L  
Sample Condition: Satisfactory

Sampling Date: 23/02/2024  
Sample Receipt Date: 26/02/2024  
Analysis Start Date: 27/02/2024  
Analysis End Date: 07/03/2024  
Sampling Method: 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	1.69	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/03A

Reporting Date : 08/03/2024

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/03	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	(G.W) Pathari Village BoreWell	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

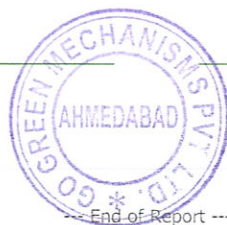
Specification:

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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/04

Reporting Date : 08/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/04	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	(GW) Pathari Village Tola Borewell	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

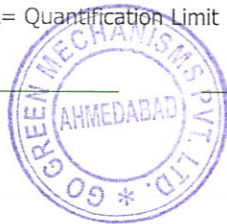
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.20	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	115.00	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	55.98	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	12.63	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	10.79	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	278.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	156.00	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2402C/79H/V4/04

Reporting Date : 08/03/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/04	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	(GW) Pathari Village Tola Borewell	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron 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	1.88	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2402C/79H/V4/04A

Reporting Date : 08/03/2024

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/04	Sampling Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	(GW) Pathari Village Tola Borewell	Analysis End Date:	07/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/05

Reporting Date: 08/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/05	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Pathari Sand lease from 500m	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.06	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.18	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/05

Reporting Date: 08/03/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/05	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Pathari Sand lease from 500m	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	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	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/06

Reporting Date: 08/03/2024

M/s Moil Limited

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



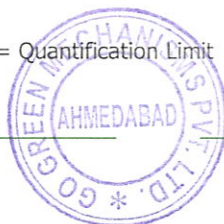
### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/06	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Hall Road of sand Lease 2 km east	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.87	µg/m3	IS 5182- Part 9	100
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)	1.07	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

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

Analyzed By  
Kinjal Damor



Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/06

Reporting Date: 08/03/2024

M/s Moil Limited

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



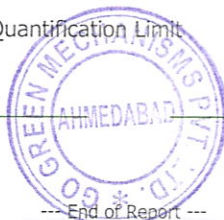
### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/06	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Hall Road of sand Lease 2 km east	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	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	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Kinjal Damor



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--- End of Report ---

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/07

Reporting Date: 08/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/07	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Point of Sand Lease	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.96	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.06	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.36	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.49	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	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

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/07

Reporting Date: 08/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/07	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Point of Sand Lease	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/08

Reporting Date: 08/03/2024

M/s Moil Limited

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



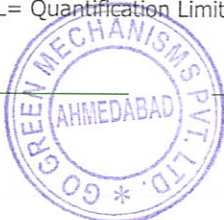
### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/08	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Pathari Village	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.88	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)	15.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.18	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	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)	1.03963	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2402C/79H/V4/08

Reporting Date: 08/03/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2402C/79H/V4/08	Sampling Start Date:	23/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/02/2024
Sample Description:	Pathari Village	Analysis start- End Date:	27/02/2024-07/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	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	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMLP/PN/2402C/79H/V4/09

Reporting Date: 08/03/2024

M/s Moil Limited

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



### SAMPLE DETAILS

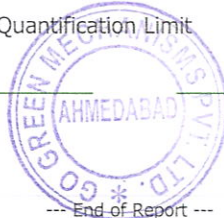
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 23/02/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2402C/7 9H/V4/09A	Pathari Sand Lease from 500M	Day Time	dB(A)Leq	IS 4758	59.9	-
2	Lab/PN/2402C/7 9H/V4/09B	Haul Road Of Sand Lease 2 km East	Day Time	dB(A)Leq	IS 4758	61.3	-
3	Lab/PN/2402C/7 9H/V4/09C	Point Of Sand Lease	Day Time	dB(A)Leq	IS 4758	60.4	-
4	Lab/PN/2402C/7 9H/V4/09D	Pathari Village	Day Time	dB(A)Leq	IS 4758	62.9	-

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

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