

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2008D/79I/01

Reporting Date: 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/01	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	21/09/2024-27/09/2024
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)	61.84	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)	13.81	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.16	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.62	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By  
Kinjal Damor



Authorized Signatory  
Gyanvati Shukla

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Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	21/09/2024-27/09/2024
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	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

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M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/02	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Electrical Substation	Analysis start- End Date:	21/09/2024-27/09/2024
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)	65.97	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)	16.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.65	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.083	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Kinjal Damor*  
Analyzed By  
Kinjal Damor



*Gyanvati Shukla*  
Authorized Signatory  
Gyanvati Shukla

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TC-7073

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Electrical Substation	Analysis start- End Date:	21/09/2024-27/09/2024
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	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/03	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	21/09/2023-27/09/2024
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)	66.57	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.57	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.55	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	21/09/2023-27/09/2024
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	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

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Reporting Date: 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/04	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Hospital	Analysis start- End Date:	21/09/2023-27/09/2024
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)	62.10	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.94	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Hospital	Analysis start- End Date:	21/09/2023-27/09/2024
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	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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(M.S)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 18/09/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2008D/7 9I/05A	Near Haul Road	Day Time	dB(A)Leq	IS 4758	63.9	-
2	Lab/PN/2008D/7 9I/05B	Near electric Substation	Day Time	dB(A)Leq	IS 4758	60.1	-
3	Lab/PN/2008D/7 9I/05C	Staff Coloney	Day Time	db(A)Leq	IS 4758	54.9	-
4	Lab/PN/2008D/7 9I/05D	Near Hospital	Day Time	db(A)Leq	IS 4758	56.3	-

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

Analyzed By  
Kinjal Damor



--- End of Report ---

Authorized Signatory  
Gyanvati Shukla

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/06

Reporting Date : 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/06	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Ground Water	Analysis Start Date:	21/09/2024
Sample Description:	G.W of village hanuman Mandir	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	151.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	33.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.47	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.82	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.40	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	221.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By  
Kinjal Damor



Authorized Signatory  
Gyanvati Shukla

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/06

Reporting Date : 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/06	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Ground Water	Analysis Start Date:	21/09/2024
Sample Description:	G.W of village hanuman Mandir	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	130.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.18	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> B	45	No relaxation

AL & PL as per IS 10500.

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

*Kinjal*  
Analyzed By  
Kinjal Damor



*Gyanvati*

Authorized Signatory  
Gyanvati Shukla

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Page No : 2/2

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**CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/2008D/79I/07

Reporting Date : 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)**SAMPLE DETAILS**

Lab ID:	Lab/PN/2008D/79I/07	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	21/09/2024
Sample Description:	STP inlet (WW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.43	-	IS 3025- Part 11	-
2	Total Suspended Solids	124.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	8.00	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	132.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	6.5	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	37	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By  
Kinjal DamorAuthorized Signatory  
Gyanvati Shukla

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/08

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)

Reporting Date : 28/09/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/08	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	21/09/2024
Sample Description:	STP Outlet(WW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	NS
2	Total Suspended Solids	46.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	36.00	mg/L	APHA 23rd Edn 5220 B	NS
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	9.20	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms as per CTO.

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

Analyzed By  
Kinjal Damor



Authorized Signatory  
Gyanvati Shukla

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/09

Reporting Date : 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/09	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	21/09/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.51	-	IS 3025- Part 11	-
2	Total Suspended Solids	74.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	112.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	28	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By  
Kinjal Damor



Authorized Signatory  
Gyanvati Shukla

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/10

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)

Reporting Date : 28/09/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/10	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	21/09/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.71	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	16.00	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	28.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	5.0	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms as per CTO.

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

*Kinjal*  
Analyzed By  
Kinjal Damor



--- End of Report ---

*Gyanvati*  
Authorized Signatory  
Gyanvati Shukla

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/LPN/2008D/79I/11

Reporting Date : 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2008D/79I/11	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	21/09/2024
Sample Description:	Mine Seepage Underground Water (WW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMP/LWI/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	-
2	Total Suspended Solids	31.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	76.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	20	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMP/SOP/W & WW/46	-

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

Analyzed By  
Kinjal Damor



Authorized Signatory  
Gyanvati Shukla

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009D/79I/01

Reporting Date : 25/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2009D/79I/01	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	G.W Mine Borewell	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



--- End of Report ---

*HB*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010D/79J/01

Reporting Date: 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur  
(M.S)




TC-7073

### SAMPLE DETAILS


Lab ID:	Lab/PN/2010D/79J/01	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near OCF	Analysis start- End Date:	21/09/2024-27/09/2024
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)	59.70	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.97	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.36	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.55	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.86	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  
Aarmi Patel



  
Authorized Signatory  
Gyanvati Shukla

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010D/79J/01

Reporting Date: 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2010D/79J/01	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near OCF	Analysis start- End Date:	21/09/2024-27/09/2024
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	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	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Aarmi Patel



Authorized Signatory  
Gyanvati Shukla

--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010D/79J/02

Reporting Date: 28/09/2024

M/s Moil Limited  
Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

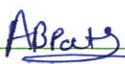
### SAMPLE DETAILS

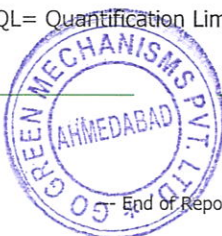
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 18/09/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2010D/79J/02	Near OCF	Day Time	dB(A)Leq	IS 4758	57.6	-

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

  
Analyzed By  
Aarmi Patel



End of Report ---

  
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Gyanvati Shukla

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010D/79J/03

Reporting Date : 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2010D/79J/03	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	OCF Borewell(GW)	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	208.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	52.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	25.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.23	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	308.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	219.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

*AB Patel*

Analyzed By  
Aarmi Patel



*Gyanvati Shukla*

Authorized Signatory  
Gyanvati Shukla

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010D/79J/03

Reporting Date : 28/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2010D/79J/03	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	OCF Borewell(GW)	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AI	PI
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.12	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

*AB Patel*

Analyzed By  
Aarmi Patel



*Gyanvati Shukla*

Authorized Signatory  
Gyanvati Shukla

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011D/793/01

Reporting Date : 25/09/2024

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur  
(M.S)



### SAMPLE DETAILS


Lab ID:	Lab/PN/2011D/793/01	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	OCF Borewell (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

  
Analyzed By  
Nidhi Shah



  
Authorized Signatory  
Dr. Haragobinda Srichandan

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2012D/79K/01

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




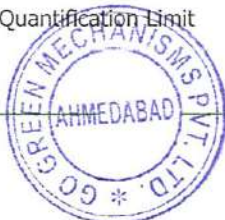
### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/01	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Bahkuri Road	Analysis start- End Date:	20/09/2024-28/09/2024
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)	58.75	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.19	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.42	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O3)	21.04	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH3)	10.55	µg/m <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benz(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	USEPA Method IO 3.4	6

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2012D/79K/01

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/01	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Bahkuri Road	Analysis start- End Date:	20/09/2024-28/09/2024
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	59	%	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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2012D/79K/02

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/02	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Beldongri Road	Analysis start- End Date:	20/09/2024-28/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.84	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.07	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.07	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Payal Patel

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Report Number : GGMPL/PN/2012D/79K/02

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/02	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Beldongri Road	Analysis start- End Date:	20/09/2024-28/09/2024
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	59	%	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	2.2	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/2012D/79K/03

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/03	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Satak Road	Analysis start- End Date:	20/09/2024-28/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	55.16	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	20.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.71	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.15	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.16	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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Report Number : GGMPL/PN/2012D/79K/03

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

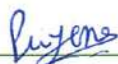


### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/03	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Satak Road	Analysis start- End Date:	20/09/2024-28/09/2024
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	59	%	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	2.2	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/2012D/79K/04

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/04	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Pit No-2	Analysis start- End Date:	20/09/2024-28/09/2024
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)	59.16	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2012D/79K/04

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/04	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Pit No-2	Analysis start- End Date:	20/09/2024-28/09/2024
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	59	%	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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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**CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/2012D/79K/05

Reporting Date: 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

**SAMPLE DETAILS**Sampling Instrument : Sound Level Meter  
Sample By Laboratory RepresentativeSampling Date: 18/09/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2012D/7 9K/05A	Bankuri Road	Day Time	dB(A)Leq	IS 4758	56.9	-
2	Lab/PN/2012D/7 9K/05B	Beldongri Road	Day Time	dB(A)Leq	IS 4758	59.6	-
3	Lab/PN/2012D/7 9K/05C	Near Satak Road	Day Time	dB(A)Leq	IS 4758	54.6	-
4	Lab/PN/2012D/7 9K/05D	Near Pit No-2	Day Time	dB(A)Leq	IS 4758	53.2	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012D/79K/06

Reporting Date : 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2012D/79K/06	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	20/09/2024
Sample Description:	W.W Pit No-2	Analysis End Date:	28/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	-	IS 3025- Part 11	-
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	23.07	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

*Priyanka*  
Analyzed By  
Priyanka Shrimali



--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012D/79K/08

Reporting Date : 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




TC-7073

### SAMPLE DETAILS

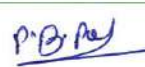
Lab ID:	Lab/PN/2012D/79K/08	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	20/09/2024
Sample Description:	W.W of Mine Discharge water	Analysis End Date:	28/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.45	-	IS 3025- Part 11	-
2	Total Suspended Solids	14.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	32.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.1	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	8.00	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Payal Patel

--- End of Report ---

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012D/79K/07

Reporting Date : 30/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS


Lab ID:	Lab/PN/2012D/79K/07	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	20/09/2024
Sample Description:	G.W Mine Borewell	Analysis End Date:	28/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	30.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.45	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.22	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	246.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	160.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012D/79K/07

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date : 30/09/2024



### SAMPLE DETAILS

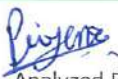
Lab ID:	Lab/PN/2012D/79K/07	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	20/09/2024
Sample Description:	G.W Mine Borewell	Analysis End Date:	28/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.24	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  
Payal Patel

--- End of Report ---

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2013D/79K/01

Reporting Date : 26/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS


Lab ID:	Lab/PN/2013D/79K/01	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	G.W Mine Borewell	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

  
Analyzed By  
Nidhi Shah



  
Authorized Signatory  
Dr. Haragobinda Srichandan

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2014D/79L/01

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/01	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	21/09/2024-26/09/2024
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)	66.96	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)	12.39	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.88	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.54	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.67	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Sachi*  
Analyzed By  
Sachi Patel



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2014D/79L/01

Reporting Date: 27/09/2024

M/s Moil Limited  
Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



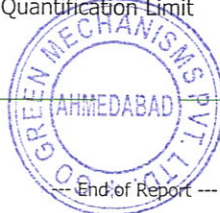
### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/01	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	21/09/2024-26/09/2024
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	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*  
Analyzed By  
Sachi Patel



*P.B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2014D/79L/02

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/02	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near East Boundary Wall	Analysis start- End Date:	21/09/2024-26/09/2024
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)	65.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.59	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.67	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.78	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.67	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2014D/79L/02

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



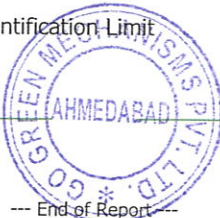
### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/02	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near East Boundary Wall	Analysis start- End Date:	21/09/2024-26/09/2024
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	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 TO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*  
Analyzed By  
Sachi Patel



*P.B.P.*  
Authorized Signatory  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2014D/79L/03

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)




TC-7073

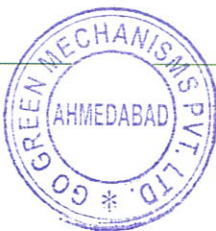
### SAMPLE DETAILS


Lab ID:	Lab/PN/2014D/79L/03	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near West Boundary Wall	Analysis start- End Date:	21/09/2024-26/09/2024
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)	62.59	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)	10.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.19	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	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

  
Analyzed By  
Sachi Patel



  
Authorized Signatory  
Payal Patel

Page No : 1/2

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Report Number : GGMPL/PN/2014D/79L/03

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

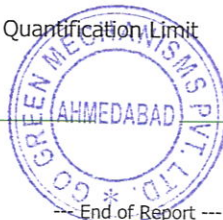
Lab ID:	Lab/PN/2014D/79L/03	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near West Boundary Wall	Analysis start- End Date:	21/09/2024-26/09/2024
Env. Cond.-Sampling:	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	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	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/2014D/79L/04

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/04	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near South Boundary Wall	Analysis start- End Date:	21/09/2024-26/09/2024
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)	66.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.51	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	µg/m3	GGMP/L/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

*Sachi*

Analyzed By  
Sachi Patel



*P. B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2014D/79L/04

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

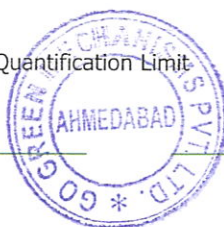
Lab ID:	Lab/PN/2014D/79L/04	Sampling Start Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/09/2024
Sample Description:	Near South Boundary Wall	Analysis start- End Date:	21/09/2024-26/09/2024
Env. Cond.-Sampling:	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	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*

Analyzed By  
Sachi Patel



--- End of Report ---

*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2014D/79L/06

Reporting Date : 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/06	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Waste Water	Analysis Start Date:	21/09/2024
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.62	-	IS 3025- Part 11	-
2	Total Suspended Solids	12.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	84.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	24	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMP/L/SOP/W & WW/46	-

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

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Analyzed By  
Sachi Patel



--- End of Report ---

*P.B. Patel*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2014D/79L/07

Reporting Date : 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/07	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPI /WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	122.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	50.10	mg/L	APHA 23rd Edn 3500 Ca B	/5	200
3	Chloride	76.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.17	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.59	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	342.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	225.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

*Sachi*

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Sachi Patel



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Payal Patel

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Reporting Date : 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/07	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.3	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.57	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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Sachi Patel



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Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2014D/79L/08

Reporting Date : 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/08	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	116.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	46.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	64.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.21	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.66	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.68	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.35	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	285.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	201.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

*Sachi*  
Analyzed By  
Sachi Patel



*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2014D/79L/08

Reporting Date : 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2014D/79L/08	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.68	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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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2014D/79L/05

Reporting Date: 27/09/2024

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 18/09/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2014D/79L/05A	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	54.9	-
2	Lab/PN/2014D/79L/05B	Nr East Boundary Wall	Day Time	dB(A)Leq	IS 4758	53.2	-
3	Lab/PN/2014D/79L/05C	Nr West Boundary Wall	Day Time	dB(A)Leq	IS 4758	57.6	-
4	Lab/PN/2014D/79L/05D	Nr South Boundary Wall	Day Time	dB(A)Leq	IS 4758	59.2	-

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

*Sachi*

Analyzed By  
Sachi Patel



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2015D/79L/01

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date : 25/09/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2015D/79L/01	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By  
Nidhi Shah



--- End of Report ---

Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2015D/79L/02

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date : 25/09/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2015D/79L/02	Sampling Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By  
Nidhi Shah



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Dr. Haragobinda Srichandan

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