

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/01

M/s Moil Limited

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

Reporting Date : 08/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/593D/79I/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Ground Water	Analysis Start Date:	01/06/2024
Sample Description:	Beldongri Village (GW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

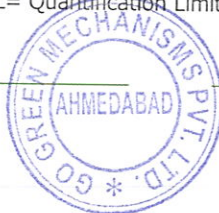
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	130.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	42.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.64	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.66	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.63	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	38.22	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	263.00	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>	146.00	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

*Nidhi*  
Analyzed By  
Nidhi Shah



*Manish*  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN/593D/79I/01

M/s Moil Limited

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

Reporting Date : 08/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/593D/79I/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Ground Water	Analysis Start Date:	01/06/2024
Sample Description:	Beldongri Village (GW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 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	1.80	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/02

M/s Moil Limited

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

Reporting Date : 08/06/2024



### SAMPLE DETAILS

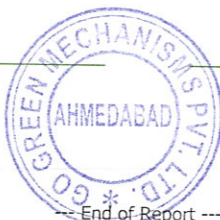
Lab ID:	Lab/PN/593D/79I/02	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Waste Water	Analysis Start Date:	01/06/2024
Sample Description:	STP inlet (WW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38	-	IS 3025- Part 11	-
2	Total Suspended Solids	104.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	7.00	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	6.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	38	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

*Nidhi*

Analyzed By  
Nidhi Shah



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/03

Reporting Date : 08/06/2024

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/593D/79I/03	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Waste Water	Analysis Start Date:	01/06/2024
Sample Description:	STP Outlet(WW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.81	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	27.00	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	30.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	12	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	2

Norms as per CCA.

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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### Head Office & Lab

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Mobile No : +91-7069072001

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/04

M/s Moil Limited

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

Reporting Date : 08/06/2024




### SAMPLE DETAILS

Lab ID: Lab/PN/593D/79I/04  
Sample Drawn By: Laboratory Representative  
Sample Type: Waste Water  
Sample Description: ETP Inlet (WW)  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 29/05/2024  
Sample Receipt Date: 31/05/2024  
Analysis Start Date: 01/06/2024  
Analysis End Date: 07/06/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	-
2	Total Suspended Solids	60.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	100.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	6.40	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	34	mg/L	IS 3025- Part 44	-
7	Manganese	0.13	mg/L	GGMPL/SOP/W & WW/46	-

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

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

Reporting Date : 08/06/2024



TC-7073

### SAMPLE DETAILS

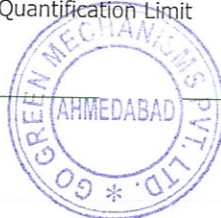
Lab ID:	Lab/PN/593D/79I/05	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Waste Water	Analysis Start Date:	01/06/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.28	-	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	20.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.70	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	8	mg/L	IS 3025- Part 44	-
7	Manganese	0.104	mg/L	GGMPL/SOP/W & WW/46	-

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

*Nidhi*

Analyzed By  
Nidhi Shah



--- End of Report ---

*Manish*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/06

M/s Moil Limited

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

Reporting Date : 08/06/2024




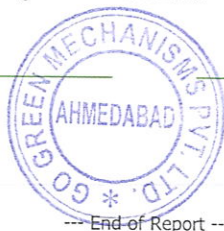
### SAMPLE DETAILS

Lab ID:	Lab/PN/593D/79I/06	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Waste Water	Analysis Start Date:	01/06/2024
Sample Description:	Mine Seepage Underground Water (WW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	-	IS 3025- Part 11	-
2	Total Suspended Solids	23.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	20	mg/L	IS 3025- Part 44	-
7	Manganese	0.14	mg/L	GGMPL/SOP/W & WW/46	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/593D/79I/07

Reporting Date: 08/06/2024

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




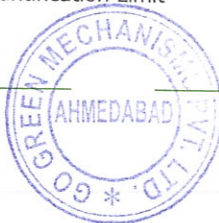
### SAMPLE DETAILS

Lab ID:	Lab/PN/593D/79I/07	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	01/06/2024-07/06/2024
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)	63.58	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)	12.13	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.87	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.85	µg/m3	IS 5182- Part 9	180
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)	1.06	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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/593D/79I/07

Reporting Date: 08/06/2024

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/593D/79I/07	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	01/06/2024-07/06/2024
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	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	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	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Nidhi Shah



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Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/593D/79I/08

Reporting Date: 08/06/2024

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/593D/79I/08	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Electrical Substation	Analysis start- End Date:	01/06/2024-07/06/2024
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)	68.59	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)	11.01	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.68	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.16	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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Nidhi Shah



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/593D/79I/08

Reporting Date: 08/06/2024

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/593D/79I/08	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Electrical Substation	Analysis start- End Date:	01/06/2024-07/06/2024
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	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	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	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Nidhi Shah



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/593D/79I/09

Reporting Date: 08/06/2024

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/593D/79I/09	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	01/06/2024-07/06/2024
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)	66.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.43	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Nidhi Shah



  
Authorized Signatory  
Manish Kumawat

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Report Number : GGMPL/PN/593D/79I/09

Reporting Date: 08/06/2024

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/593D/79I/09	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	01/06/2024-07/06/2024
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	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	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	10.8	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/593D/79I/10

Reporting Date: 08/06/2024

M/s Moil Limited

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

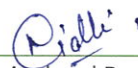


### SAMPLE DETAILS

Lab ID:	Lab/PN/593D/79I/10	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Hospital	Analysis start- End Date:	01/06/2024-07/06/2024
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)	67.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.76	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.17	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/593D/79I/10

Reporting Date: 08/06/2024

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/593D/79I/10	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Hospital	Analysis start- End Date:	01/06/2024-07/06/2024
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	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	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	10.8	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/593D/79I/11

Reporting Date: 08/06/2024

M/s Moil Limited

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




### SAMPLE DETAILS

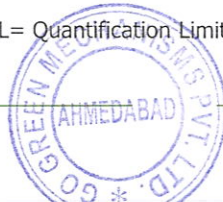
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 29/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/593D/79 I/11A	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	58.9	-
2	Lab/PN/593D/79 I/11B	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	59.7	-
3	Lab/PN/593D/79 I/11C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	57.8	-
4	Lab/PN/593D/79 I/11D	Near Jack Hammer Drill	Day Time	dB(A)Leq	IS 4758	58.5	-

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

  
Analyzed By  
Nidhi Shah



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/597D/79I/01

Reporting Date : 06/06/2024

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/597D/79I/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Ground Water	Analysis Start Date:	01/06/2024
Sample Description:	Village Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

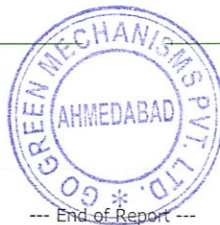
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

*Nidhi*

Analyzed By  
Nidhi Shah



*HS*

Authorized Signatory  
Dr. Haragobinda Srichandan

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/594D/79J/01

Reporting Date : 07/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

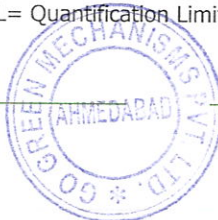
Lab ID:	Lab/PN/594D/79J/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Water	Analysis Start Date:	01/06/2024
Sample Description:	OCF Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	216.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	56.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	56.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.22	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	20.90	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	45.04	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	316.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	228.0	mg/L	APHA 23rd Edn 2340 C	200	400
12	Total Suspended Solids (TSS)	6.7	mg/L	APHA 23rd Edn 2540 D	NS	NS

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

Analyzed By  
Prajapati Akshay



Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/594D/79J/01

Reporting Date : 07/06/2024

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/594D/79J/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Water	Analysis Start Date:	01/06/2024
Sample Description:	OCF Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

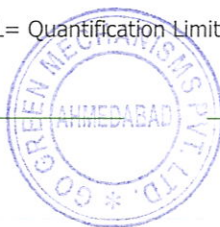
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Nitrate	1.47	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation
15	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
16	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3

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

A.m. Prajapati

Analyzed By  
Prajapati Akshay



Manish Kumawat

Authorized Signatory  
Manish Kumawat

--- End of Report ---

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/594D/79J/02

Reporting Date: 07/06/2024

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/594D/79J/02	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near OCF	Analysis start- End Date:	01/06/2024-06/06/2024
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)	72.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.02	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	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

*A.m. Prajapati*

Analyzed By  
Prajapati Akshay



*(Signature)*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/594D/79J/02

Reporting Date: 07/06/2024

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



### SAMPLE DETAILS

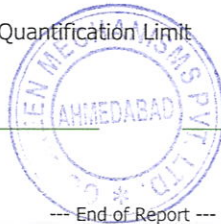
Lab ID:	Lab/PN/594D/79J/02	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near OCF	Analysis start- End Date:	01/06/2024-06/06/2024
Env. Cond.-Sampling:	Ambient temperature	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	39.0	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

*A.M. Bajaj*

Analyzed By  
Prajapati Akshay



--- End of Report ---

*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/594D/79J/03

Reporting Date: 07/06/2024

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: 29/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/594D/79 J/03A	Near OCF	Day Time	dB(A)Leq	IS 4758	59.7	-

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

A.m. Basu

Analyzed By  
Prajapati Akshay



--- End of Report ---

Manish Kumawat

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/598D/79J/01

Reporting Date : 06/06/2024

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/598D/79J/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Ground Water	Analysis Start Date:	01/06/2024
Sample Description:	OCF Borewell (GW)	Analysis End Date:	06/06/2024
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	APIA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APIA 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



*H8*  
Authorized Signatory  
Dr. Haragobinda Srichandan

--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/592D/79L/01

M/s Moil Limited

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

Reporting Date : 07/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/592D/79L/01	Sampling Date:	30/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Waste Water	Analysis Start Date:	31/05/2024
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.85	-	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	90.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	31	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  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/592D/79L/02

Reporting Date : 07/06/2024

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/592D/79L/02	Sampling Date:	30/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Water	Analysis Start Date:	31/05/2024
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

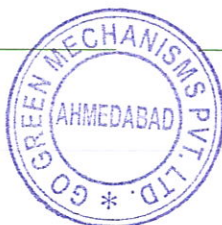
Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	165.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	59.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.46	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	18.71	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 to 8.5	No Relaxation
9	Sulphate	20.47	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	286.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	195.00	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  
Manish Kumawat

Page No : 1/2

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M/s Moil Limited

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

Reporting Date : 07/06/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/592D/79L/02	Sampling Date:	30/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Water	Analysis Start Date:	31/05/2024
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.9	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	4.44	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: GGMPL/PN/592D/79L/03

Reporting Date : 07/06/2024

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/592D/79L/03	Sampling Date:	30/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Water	Analysis Start Date:	31/05/2024
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 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>	145.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	54.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	60.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	9.72	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	30.51	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	298.00	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>	175.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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Manish Kumawat

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Report Number: GGMPL/PN/592D/79L/03

M/s Moil Limited

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

Reporting Date : 07/06/2024



### SAMPLE DETAILS

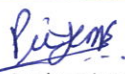
Lab ID:	Lab/PN/592D/79L/03	Sampling Date:	30/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Water	Analysis Start Date:	31/05/2024
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.8	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	3.59	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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--- End of Report ---

  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/592D/79L/04

Reporting Date: 07/06/2024

M/s Moil Limited

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

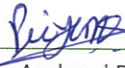


### SAMPLE DETAILS

Lab ID:	Lab/PN/592D/79L/04	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	31/05/2024-06/06/2024
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)	73.30	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.11	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.89	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	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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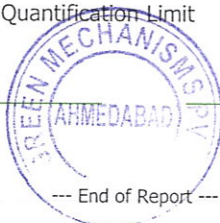
### SAMPLE DETAILS

Lab ID:	Lab/PN/592D/79L/04	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	31/05/2024-06/06/2024
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	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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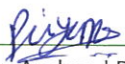


### SAMPLE DETAILS

Lab ID:	Lab/PN/592D/79L/05	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near East Boundary Wall	Analysis start- End Date:	31/05/2024-06/06/2024
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)	70.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.86	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.65	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.83	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.045	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 DETAILS

Lab ID:	Lab/PN/592D/79L/05	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near East Boundary Wall	Analysis start- End Date:	31/05/2024-06/06/2024
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	42	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/592D/79L/06

Reporting Date: 07/06/2024

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/592D/79L/06	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near West Boundary Wall	Analysis start- End Date:	31/05/2024-06/06/2024
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)	67.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.43	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.57	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/592D/79L/06

Reporting Date: 07/06/2024

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/592D/79L/06	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near West Boundary Wall	Analysis start- End Date:	31/05/2024-06/06/2024
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	81	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	41	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	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/592D/79L/07

Reporting Date: 07/06/2024

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/592D/79L/07	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near South Boundary Wall	Analysis start- End Date:	31/05/2024-06/06/2024
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)	71.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.89	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.46	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/592D/79L/07

Reporting Date: 07/06/2024

M/s Moil Limited

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




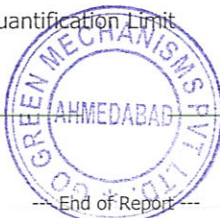
### SAMPLE DETAILS

Lab ID:	Lab/PN/592D/79L/07	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near South Boundary Wall	Analysis start- End Date:	31/05/2024-06/06/2024
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	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

End of Report

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/592D/79L/08

Reporting Date: 07/06/2024

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: 30/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/592D/79 L/08A	Nr Mine Pit	Day Time	dB(A)Leq	IS 4758	62.9	-
2	Lab/PN/592D/79 L/08B	Nr East Boundary Wall	Day Time	dB(A)Leq	IS 4758	58.4	-
3	Lab/PN/592D/79 L/08C	Nr West Boundary Wall	Day Time	dB(A)Leq	IS 4758	56.9	-
4	Lab/PN/592D/79 L/08D	Nr South Boundary Wall	Day Time	dB(A)Leq	IS 4758	63.3	-

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/596D/79L/01

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/596D/79L/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Ground Water	Analysis Start Date:	01/06/2024
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	06/06/2024
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 ---

*HS*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/596D/79L/02

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/596D/79L/02	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Ground Water	Analysis Start Date:	01/06/2024
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

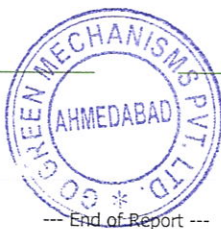
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

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: GGMP/L/PN/591D/79K/08

Reporting Date : 10/06/2024

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/591D/79K/08  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Mine Borewell (GW)

Sampling Date: 29/05/2024  
Sample Receipt Date: 31/05/2024  
Analysis Start Date: 01/06/2024  
Analysis End Date: 08/06/2024

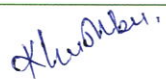
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

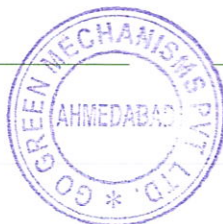
Sampling Method: GGMP/L/WI/27A  
Packing: Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO <sub>3</sub>	137.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca	34.46	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride	55.48	mg/L	IS 3025- Part 32		250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride	1.11	mg/L	APHA 23rd Edn 4500 F D		1	1.5
6	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B		30	100
7	Odour	Agreeable	-	IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C	7.35	-	IS 3025- Part 11		6.5 to 8.5	No relaxation
9	Sulphate	23.79	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E		200	400
10	Total Dissolved Solids (TDS)	264.0	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL AS Per IS 10500.

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

  
Analyzed By  
Khushbu Suthar



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/591D/79K/08

Reporting Date : 10/06/2024

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/591D/79K/08  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Mine Borewell (GW)

Sampling Date: 29/05/2024  
Sample Receipt Date: 31/05/2024  
Analysis Start Date: 01/06/2024  
Analysis End Date: 08/06/2024

Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A  
Packing: Sealed

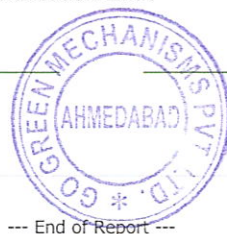
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	154.00	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	1.12	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/591D/79K/01

M/s Moil Limited

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

Reporting Date : 10/06/2024




### SAMPLE DETAILS

Lab ID:	Lab/PN/591D/79K/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Waste Water	Analysis Start Date:	01/06/2024
Sample Description:	Pit No.-02 (WW)	Analysis End Date:	08/06/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58	-	IS 3025- Part 11	-
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	90.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	25	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  
Khushbu Suthar



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/591D/79K/02

M/s Moil Limited

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

Reporting Date : 10/06/2024



TC-7073

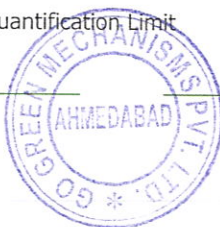
### SAMPLE DETAILS

Lab ID:	Lab/PN/591D/79K/02	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Waste Water	Analysis Start Date:	01/06/2024
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	08/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.32	-	IS 3025- Part 11	-
2	Total Suspended Solids	20.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	12	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/591D/79K/03

Reporting Date: 10/06/2024

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/591D/79K/03	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Bankuri Road	Analysis start- End Date:	01/06/2024-08/06/2024
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)	72.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	20.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	24.56	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Khushbu Suthar



  
Authorized Signatory  
Manish Kumawat

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Reporting Date: 10/06/2024

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/591D/79K/03	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Bankuri Road	Analysis start- End Date:	01/06/2024-08/06/2024
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	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Khushbu Suthar



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/591D/79K/04

Reporting Date: 10/06/2024

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/591D/79K/04	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Beldongri Road	Analysis start- End Date:	01/06/2024-08/06/2024
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)	74.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.23	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.26	µg/m3	IS 5182- Part 9	180
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)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/591D/79K/04

Reporting Date: 10/06/2024

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/591D/79K/04	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Beldongri Road	Analysis start- End Date:	01/06/2024-08/06/2024
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	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Report Number : GGMPL/PN/591D/79K/05

Reporting Date: 10/06/2024

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/591D/79K/05	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Satak Road	Analysis start- End Date:	01/06/2024-08/06/2024
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)	77.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	43.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	22.12	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.67	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.41	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	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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Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/591D/79K/05

Reporting Date: 10/06/2024

M/s Moil Limited

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




TC-7073

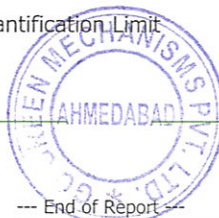
### SAMPLE DETAILS

Lab ID:	Lab/PN/591D/79K/05	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Satak Road	Analysis start- End Date:	01/06/2024-08/06/2024
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	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	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	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Khushbu Suthar



  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/591D/79K/06

Reporting Date: 10/06/2024

M/s Moil Limited

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

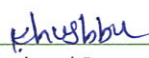


### SAMPLE DETAILS

Lab ID:	Lab/PN/591D/79K/06	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Pit No-02	Analysis start- End Date:	01/06/2024-08/06/2024
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)	77.36	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	44.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	23.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.89	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	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  
Khushbu Suthar



  
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Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/591D/79K/06

Reporting Date: 10/06/2024

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/591D/79K/06	Sampling Start Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/05/2024
Sample Description:	Near Pit No-02	Analysis start- End Date:	01/06/2024-08/06/2024
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	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/591D/79K/07

Reporting Date: 10/06/2024

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 Representative

Sampling Date: 29/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/591D/79 K/08A	Bankuri Road	Day Time	dB(A)Leq	IS 4758	62.4	-
2	Lab/PN/591D/79 K/08B	Beldongri Road	Day Time	dB(A)Leq	IS 4758	60.2	-
3	Lab/PN/591D/79 K/08C	Nr Satak Road	Day Time	dB(A)Leq	IS 4758	58.9	-
4	Lab/PN/591D/79 K/08D	Near Pit No-2	Day Time	dB(A)Leq	IS 4758	64.6	-

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

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--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/591D/79K/08

Reporting Date : 10/06/2024

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/591D/79K/08  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Mine Borewell (GW)

Sampling Date: 29/05/2024  
Sample Receipt Date: 31/05/2024  
Analysis Start Date: 01/06/2024  
Analysis End Date: 08/06/2024

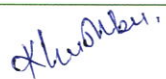
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

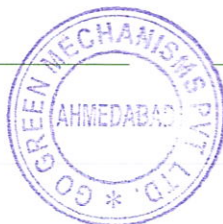
Sampling Method: GGMP/L/WI/27A  
Packing: Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO <sub>3</sub>	137.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca	34.46	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride	55.48	mg/L	IS 3025- Part 32		250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride	1.11	mg/L	APHA 23rd Edn 4500 F D		1	1.5
6	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B		30	100
7	Odour	Agreeable	-	IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C	7.35	-	IS 3025- Part 11		6.5 to 8.5	No relaxation
9	Sulphate	23.79	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E		200	400
10	Total Dissolved Solids (TDS)	264.0	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL AS Per IS 10500.

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

  
Analyzed By  
Khushbu Suthar



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/591D/79K/08

Reporting Date : 10/06/2024

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/591D/79K/08  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Mine Borewell (GW)

Sampling Date: 29/05/2024  
Sample Receipt Date: 31/05/2024  
Analysis Start Date: 01/06/2024  
Analysis End Date: 08/06/2024

Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A  
Packing: Sealed

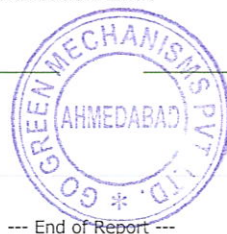
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	154.00	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	1.12	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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### Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/595D/79K/01

Reporting Date : 06/06/2024

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/595D/79K/01	Sampling Date:	29/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/05/2024
Sample Type:	Ground Water	Analysis Start Date:	01/06/2024
Sample Description:	G.W Mine Borewell	Analysis End Date:	06/06/2024
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 ---

*HS*

Authorized Signatory  
Dr. Haragobinda Srichandan

Page No : 1/1

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