

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/01

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	14/12/2023
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	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	7.32	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	170.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	50.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	82.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.69	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.38	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	26.48	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	344.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	214.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By  
Ritu Shah



Authorized Signatory  
Payal Patel

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### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	14/12/2023
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.96	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.56	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/01A

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	14/12/2023
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/02

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/02	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Waste Water	Analysis Start Date:	14/12/2023
Sample Description:	Mine Seapge water (Vertical Shaft) (WW)	Analysis End Date:	26/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.22	-	IS 3025- Part 11	-
2	Total Suspended Solids	24.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.1	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	22.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.23	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By  
Ritu Shah



Authorized Signatory  
Payal Patel

--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/03

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/03	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Waste Water	Analysis Start Date:	14/12/2023
Sample Description:	ETP Inlet (WW)	Analysis End Date:	26/12/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.71	-	IS 3025- Part 11	-
2	Total Suspended Solids	48.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	340.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	108	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.12	mg/L	APHA 23rd Edn 3120 B	-

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

*Rit*  
Analyzed By  
Ritu Shah



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/04

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/04	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Waste Water	Analysis Start Date:	14/12/2023
Sample Description:	ETP Outlet (WW)	Analysis End Date:	26/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.34	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	32.00	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	90.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.90	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	28	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.10	mg/L	APHA 23rd Edn 3120 B	NS

Norms as per CCA.

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

*Ritu Shah*

Analyzed By  
Ritu Shah



--- End of Report ---

*P. B. Patel*

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Payal Patel

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M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/05	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Waste Water	Analysis Start Date:	14/12/2023
Sample Description:	STP Inlet	Analysis End Date:	26/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.78	-	IS 3025- Part 11	-
2	Total Suspended Solids	50.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	105.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	38	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.164	mg/L	APHA 23rd Edn 3120 B	-

Norms as per CCA.

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M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/06	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Waste Water	Analysis Start Date:	14/12/2023
Sample Description:	STP Outlet	Analysis End Date:	26/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.21	-	IS 3025- Part 11	NS
2	Total Suspended Solids	24.00	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	70.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	24	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	NS

Norms as per CCA.

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

*Ritu Shah*  
Analyzed By  
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## CERTIFICATE OF ANALYSIS

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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



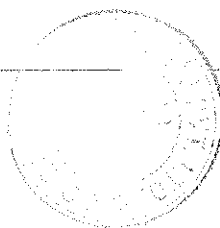
### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/07	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Administrative Building	Analysis start- End Date:	14/12/2023-26/12/2023
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)	63.93	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)	11.10	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.10	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.27	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)	1.01	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/1807C/93M/01/V3/07

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/07	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Administrative Building	Analysis start- End Date:	14/12/2023-26/12/2023
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	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	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	2.7	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/1807C/93M/01/V3/08

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/08	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	14/12/2023-26/12/2023
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)	65.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.25	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.27	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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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/08	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	14/12/2023-26/12/2023
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	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	2.7	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/1807C/93M/01/V3/09

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Mangnese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/09	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near DSU Plant	Analysis start- End Date:	14/12/2023-26/12/2023
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)	67.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	18.05	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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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/09	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near DSU Plant	Analysis start- End Date:	14/12/2023-26/12/2023
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/10	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Compressor Room	Analysis start- End Date:	14/12/2023-26/12/2023
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)	61.70	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.8	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.72	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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Analyzed By  
Ritu Shah



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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93M/01/V3/10	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Compressor Room	Analysis start- End Date:	14/12/2023-26/12/2023
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 11/12/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/93M/01/V3/11A	Near Ventilation Fan	Day Time	dB(A)Leq	IS 4758	61.6	-
2	Lab/PN/1807C/93M/01/V3/11B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	64.6	-
3	Lab/PN/1807C/93M/01/V3/11C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	63.2	-
4	Lab/PN/1807C/93M/01/V3/11D	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	65.1	-

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93N/02/V3/01

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93N/02/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5L	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	6.5To 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	168.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	53.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.38	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.13	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	310.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	191.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

*AB Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN/1807C/93N/02/V3/01

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S.)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93N/02/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.81	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

ABPatel

Analyzed By  
Aarmi Patel



Manish Kumawat

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93N/02/V3/01A

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93N/02/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

*AB Patel*

Analyzed By  
Aarmi Patel



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1807C/93N/02/V3/02

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



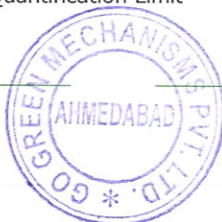
### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93N/02/V3/02	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Old OCF	Analysis start- End Date:	15/12/2023-26/12/2023
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)	67.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.89	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.69	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*AB Patel*  
Analyzed By  
Aarmi Patel



*[Signature]*  
Authorized Signatory  
Aarmi Patel

Page No : 1/2

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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93N/02/V3/02	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Old OCF	Analysis start- End Date:	15/12/2023-26/12/2023
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	26	°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	3.3	m/s	GGMPL/SOP/MP/01:2020	NS

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*AB Patel*

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Aarmi Patel



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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

11/12/2023

Sample Description:

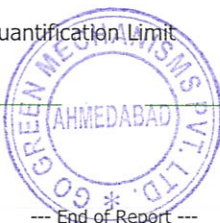
Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/93N/02/V3/03A	Near Old OCF	Day Time	dB(A)Leq	IS 4758	61.1	-

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/930/03/V3/01

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/930/03/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

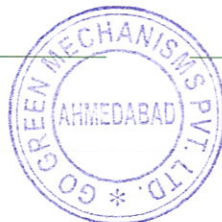
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.53	-	IS 3025-Part 11	6.5To 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	144.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	35.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.19	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	18.47	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.25	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	245.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	164.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL& PL As Per IS 10500.

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

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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/1807C/930/03/V3/01

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/930/03/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.66	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*

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#### Head Office & Lab

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/930/03/V3/01A

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/930/03/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL& PL As Per IS 10500.

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

*AB Patel*

Analyzed By  
Aarmi Patel



--- End of Report ---

*[Signature]*

Authorized Signatory  
Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1807C/930/03/V3/02

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/930/03/V3/02	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Staff Colony	Analysis start- End Date:	15/12/2023-26/12/2023
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)	71.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.65	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.46	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.10	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*AB Patel*  
Analyzed By  
Aarmi Patel



*[Signature]*  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1807C/930/03/V3/02

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S.)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/930/03/V3/02	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Staff Colony	Analysis start- End Date:	15/12/2023-26/12/2023
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall		mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

*AB Patel*

Analyzed By  
Aarmi Patel



--- End of Report ---

*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/930/03/V3/03

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 11/12/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/930/03/V3/03A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	58.8	-

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

*AB Patel*

Analyzed By  
Aarmi Patel



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*Manish Kumawat*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/01

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93P/04/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	VT Center Borewell (GW)	Analysis End Date:	26/12/2023
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	7.53	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.90	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	52.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.42	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	29.65	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.03	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	294.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	244.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500

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

*Sachi*

Analyzed By  
Sachi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID: Lab/PN/1807C/93P/04/V3/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: VT Center Borewell (GW)  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 11/12/2023  
Sample Receipt Date: 14/12/2023  
Analysis Start Date: 15/12/2023  
Analysis End Date: 26/12/2023  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.87	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500

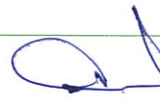
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

*Sachi*

Analyzed By  
Sachi Patel



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Manish Kumawat

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Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93P/04/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	VT Center Borewell (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

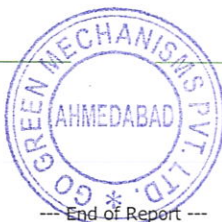
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500


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

*Sachi*

Analyzed By  
Sachi Patel



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Manish Kumawat

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Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93P/04/V3/02	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near VT Center	Analysis start- End Date:	15/12/2023-26/12/2023
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)	71.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.21	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.79	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.56	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)	1.03	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



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Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1807C/93P/04/V3/02

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



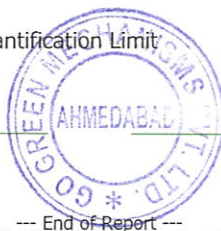
### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93P/04/V3/02	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near VT Center	Analysis start- End Date:	15/12/2023-26/12/2023
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*  
Analyzed By  
Sachi Patel



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/03

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)




### SAMPLE DETAILS

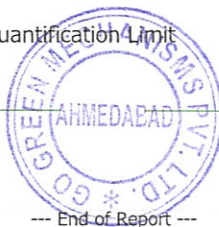
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 11/12/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/93P/04/V3/03	Nr. VT Center	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/1807C/93Q/05/V3/01

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	26/12/2023
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	7.64	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	46.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	52.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.39	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.15	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	196.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500

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

*Sachi*

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Sachi Patel



*Manish Kumawat*

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Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	26/12/2023
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	2.8	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.28	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500

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

*Sachi*

Analyzed By  
Sachi Patel



--- End of Report ---

*[Signature]*

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/01A

Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/01	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	26/12/2023
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	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500


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

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Sachi Patel



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## CERTIFICATE OF ANALYSIS

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Reporting Date : 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/02	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
Sample Type:	Water	Analysis Start Date:	15/12/2023
Sample Description:	Weigh Bridge (Borewell Water) (GW)	Analysis End Date:	26/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

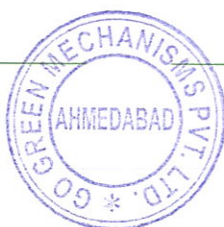
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	161.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	57.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.64	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	26.73	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	20.11	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	327.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	230.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500

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

*Sachi*

Analyzed By  
Sachi Patel



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Manish Kumawat

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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
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Sample Description:	Weigh Bridge (Borewell Water) (GW)	Analysis End Date:	26/12/2023
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	2.3	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.62	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500

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

*Sachi*

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Sachi Patel



--- End of Report ---

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Manish Kumawat

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Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/02	Sampling Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/12/2023
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Sample Description:	Weigh Bridge (Borewell Water) (GW)	Analysis End Date:	26/12/2023
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	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500

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Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

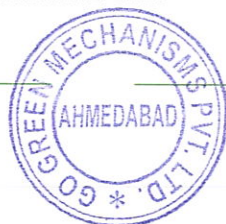
Lab ID:	Lab/PN/1807C/93Q/05/V3/03	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	15/12/2023-26/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.88	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.51	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.76	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.94	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)	1.14	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



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1807C/93Q/05/V3/03

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



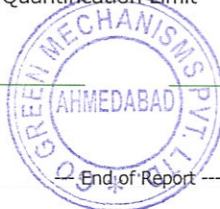
### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/03	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
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Sample Description:	End Point of Railway Siding	Analysis start- End Date:	15/12/2023-26/12/2023
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall		mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*  
Analyzed By  
Sachi Patel



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1807C/93Q/05/V3/04

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/04	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	15/12/2023-26/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.56	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)	13.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.23	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.48	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	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

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Analyzed By  
Sachi Patel



*Manish Kumawat*

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Manish Kumawat

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#### Head Office & Lab

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1807C/93Q/05/V3/04

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1807C/93Q/05/V3/04	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	14/12/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	15/12/2023-26/12/2023
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall		mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*  
Analyzed By  
Sachi Patel



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

--- End of Report ---

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1807C/93Q/05/V3/05

Reporting Date: 27/12/2023

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 11/12/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/93Q/05/V3/05A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	68.5	-
2	Lab/PN/1807C/93Q/05/V3/05B	Nr Weigh Bridge	Day Time	dB(A)Leq	IS 4758	58.9	-

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*Sachi*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/01

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date : 12/12/2023



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/01	Sampling Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/12/2023
Sample Type:	Waste Water	Analysis Start Date:	06/12/2023
Sample Description:	Mine pit Water (WW)	Analysis End Date:	11/12/2023
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	100.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	27	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.137	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA

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

*Nidhi Shah*

Analyzed By  
Nidhi Shah



--- End of Report ---

*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/02

Reporting Date : 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID: Lab/PN/1723C/95U/V3/02  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Open Dugwell (GW)  
Sample Quantity: 7.5L  
Sample Condition: Satisfactory

Sampling Date: 01/12/2023  
Sample Receipt Date: 05/12/2023  
Analysis Start Date: 06/12/2023  
Analysis End Date: 11/12/2023  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.45	-	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	142.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	48.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.54	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	18.71	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.64	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	354.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	162.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as Per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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Reporting Date : 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/02	Sampling Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/12/2023
Sample Type:	Water	Analysis Start Date:	06/12/2023
Sample Description:	Open Dugwell (GW)	Analysis End Date:	11/12/2023
Sample Quantity:	7.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.2	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	6.17	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

*Nidhi*  
Analyzed By  
Nidhi Shah



--- End of Report ---

*P.B. Patel*  
Authorized Signatory  
Payal Patel

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Reporting Date : 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/02	Sampling Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/12/2023
Sample Type:	Water	Analysis Start Date:	06/12/2023
Sample Description:	Open Dugwell (GW)	Analysis End Date:	11/12/2023
Sample Quantity:	7.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as Per IS 10500.

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

*Nidhi*

Analyzed By  
Nidhi Shah



--- End of Report ---

*P.B.P.*

Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1723C/95U/V3/03

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/03	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	06/12/2023-11/12/2023
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)	65.13	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.12	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.54	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)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Nidhi Shah*

Analyzed By  
Nidhi Shah



*P.B. Patel*

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Payal Patel

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Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/03	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	06/12/2023-11/12/2023
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*P. Patel*  
Authorized Signatory  
Payal Patel

--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1723C/95U/V3/04

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/04	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Waste Dump Side	Analysis start- End Date:	06/12/2023-11/12/2023
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)	67.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.83	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.43	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	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

*Nidhi*

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Nidhi Shah



*P. B. Patel*

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Report Number : GGMPL/PN/1723C/95U/V3/04

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/04	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Waste Dump Side	Analysis start- End Date:	06/12/2023-11/12/2023
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	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/1723C/95U/V3/05

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/05	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	06/12/2023-11/12/2023
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)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	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

*Nidhi Shah*

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1723C/95U/V3/05

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/05	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	06/12/2023-11/12/2023
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Pidli*

Analyzed By  
Nidhi Shah



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*P. B. Patel*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1723C/95U/V3/06

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

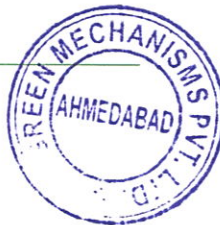
Lab ID:	Lab/PN/1723C/95U/V3/06	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	06/12/2023-11/12/2023
Env. Cond.-Sampling:	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)	68.29	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)	13.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.81	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.54	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

*Nidhi Shah*

Analyzed By  
Nidhi Shah



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1723C/95U/V3/06

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1723C/95U/V3/06	Sampling Start Date:	01/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/12/2023
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	06/12/2023-11/12/2023
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Nidhi*

Analyzed By  
Nidhi Shah



--- End of Report ---

*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/07

Reporting Date: 12/12/2023

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

01/12/2023

Sample By Laboratory Representative

Sample Description:

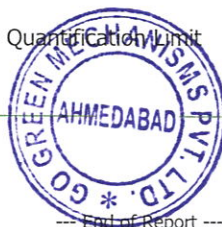
Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1723C/9 5U/V3/07A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	56.3	-
2	Lab/PN/1723C/9 5U/V3/07B	Waste Dump Area	Day Time	dB(A)Leq	IS 4758	58.9	-
3	Lab/PN/1723C/9 5U/V3/07C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	61.3	-
4	Lab/PN/1723C/9 5U/V3/07D	Main Road Near Khasra No. 19	Day Time	dB(A)Leq	IS 4758	59.1	-

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

*Nidhi Shah*

Analyzed By  
Nidhi Shah



--- End of Report ---

*P. B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/1

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