

## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1130C/93M/V2/01

Reporting Date : 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Administrative Building(Borewell) (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

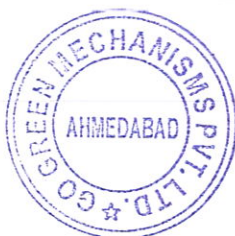
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.40	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	45.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.57	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.28	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	362.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	184.00	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

*P. Parekh*

Analyzed By  
Pooja Parekh



*[Signature]*

Authorized Signatory  
Manish Kumawat

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Administrative Building(Borewell) (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.84	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	30	100
16	Nitrate	3.80	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

*Pooja Parekh*

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*Manish Kumawat*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1130C/93M/V2/01A

Reporting Date : 12/09/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Administrative Building(Borewell) (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5L	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

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1130C/93M/V2/02

Reporting Date : 12/09/2023

M/s Moil Limited

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



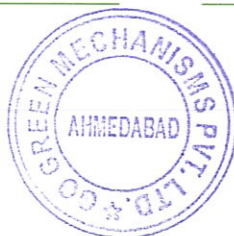
### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/02	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	Mine Seepage water (Vertical Shaft)	Analysis End Date:	11/09/2023
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	7.36	-	IS 3025- Part 11	-
2	Total Suspended Solids	27.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	21	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.256	mg/L	APHA 23rd Edn 3120 B	-

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

*Pooja Parekh*  
Analyzed By  
Pooja Parekh



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1130C/93M/V2/03

Reporting Date : 12/09/2023

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/1130C/93M/V2/03	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	ETP Inlet (WW)	Analysis End Date:	11/09/2023
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	6.95	-	IS 3025- Part 11	-
2	Total Suspended Solids	42.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	360.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	116	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.124	mg/L	APHA 23rd Edn 3120 B	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1130C/93M/V2/04

Reporting Date : 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID: Lab/PN/1130C/93M/V2/04  
Sample Drawn By: Laboratory Representative  
Sample Type: Waste Water  
Sample Description: ETP Outlet (WW)  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 01/09/2023  
Sample Receipt Date: 04/09/2023  
Analysis Start Date: 05/09/2023  
Analysis End Date: 11/09/2023  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.19	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	29.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.5	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	20	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.143	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

*Pooja Parekh*

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M/s Moil Limited

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

Reporting Date : 12/09/2023



TC-7073

### SAMPLE DETAILS

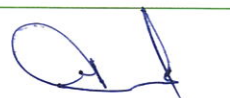
Lab ID:	Lab/PN/1130C/93M/V2/05	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	STP Inlet (WW)	Analysis End Date:	11/09/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.14	-	IS 3025- Part 11	-
2	Total Suspended Solids	58.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	120.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.1	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	48	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.188	mg/L	APHA 23rd Edn 3120 B	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1130C/93M/V2/06

Reporting Date : 12/09/2023

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/1130C/93M/V2/06	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	11/09/2023
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	7.44	-	IS 3025- Part 11	NS
2	Total Suspended Solids	26.00	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	90.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	26	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.123	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

*Pooja Parekh*

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1130C/93M/V2/07

Reporting Date: 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/07	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Administrative Building	Analysis start- End Date:	05/09/2023-11/09/2023
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)	60.67	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.79	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.68	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

*Pooja Parekh*

Analyzed By  
Pooja Parekh



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1130C/93M/V2/07

Reporting Date: 12/09/2023

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/1130C/93M/V2/07	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Administrative Building	Analysis start- End Date:	05/09/2023-11/09/2023
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
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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Pooja Parekh*

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Pooja Parekh



*Manish Kumawat*

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1130C/93M/V2/08

Reporting Date: 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/08	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Vertical Shaft 1	Analysis start- End Date:	05/09/2023-11/09/2023
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)	63.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.94	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.37	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By  
Pooja Parekh



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1130C/93M/V2/08

Reporting Date: 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/08	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Vertical Shaft 1	Analysis start- End Date:	05/09/2023-11/09/2023
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
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	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/1130C/93M/V2/09

Reporting Date: 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/09	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near DSU Plant	Analysis start- End Date:	05/09/2023-11/09/2023
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)	65.52	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.75	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.27	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.14	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.81	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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Report Number : GGMPL/PN/1130C/93M/V2/09

Reporting Date: 12/09/2023

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/1130C/93M/V2/09	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near DSU Plant	Analysis start- End Date:	05/09/2023-11/09/2023
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
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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/10	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Compressor Room	Analysis start- End Date:	05/09/2023-11/09/2023
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)	59.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.93	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.71	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Report Number : GGMPL/PN/1130C/93M/V2/10

Reporting Date: 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1130C/93M/V2/10	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Compressor Room	Analysis start- End Date:	05/09/2023-11/09/2023
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
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	4	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/1130C/93M/V2/11

Reporting Date: 12/09/2023

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: 01/09/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1130C/93M/V2/11A	Near Administrative Building	Day Time	dB(A)Leq	IS 4758	66.5	75
2	Lab/PN/1130C/93M/V2/11B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	69.1	75
3	Lab/PN/1130C/93M/V2/11C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	67.8	75
4	Lab/PN/1130C/93M/V2/11D	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	69.5	75

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

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1131C/93N/V2/01

Reporting Date : 12/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1131C/93N/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

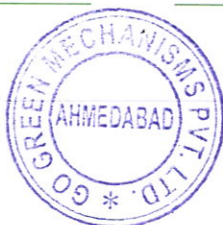
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.38	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	19.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.46	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	37.62	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	169.00	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

*AB Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1131C/93N/V2/01

Reporting Date : 12/09/2023

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/1131C/93N/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 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 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	2.27	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500

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

*AB Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1131C/93N/V2/01A

Reporting Date : 12/09/2023

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/1131C/93N/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 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/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

*A. Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1131C/93N/V2/02

Reporting Date: 12/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

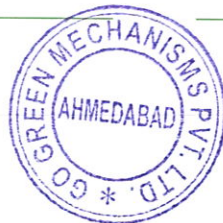
Lab ID:	Lab/PN/1131C/93N/V2/02	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Old OCF	Analysis start- End Date:	04/09/2023-11/09/2023
Env. Cond.-Sampling:	Ambient 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)	64.49	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.01	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.65	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.59	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)	1.1	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

*Aarmi Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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Report Number : GGMPL/PN/1131C/93N/V2/02

Reporting Date: 12/09/2023

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/1131C/93N/V2/02	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Old OCF	Analysis start- End Date:	04/09/2023-11/09/2023
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
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

*A. B. Patel*

Analyzed By  
Aarmi Patel



*[Signature]*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1132C/930/V2/01

Reporting Date : 12/09/2023

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/1132C/930/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 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	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	179.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	57.71	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)	0.23	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.75	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	347.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	218.00	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

*P. Parekh*

Analyzed By  
Pooja Parekh



*M. 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/1132C/930/V2/01

Reporting Date : 12/09/2023

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/1132C/930/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 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 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	2.93	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

*P. Parekh*  
Analyzed By  
Pooja Parekh



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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Gujarat. INDIA

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Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1132C/930/V2/01A

Reporting Date : 12/09/2023

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/1132C/930/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 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/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

*Pooja Parekh*

Analyzed By  
Pooja Parekh



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1132C/930/V2/02

Reporting Date: 12/09/2023

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/1132C/930/V2/02	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Staff Colony	Analysis start- End Date:	04/09/2023-11/09/2023
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)	58.85	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	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)	16.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.30	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.49	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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

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Reporting Date: 12/09/2023

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/1132C/930/V2/02	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Staff Colony	Analysis start- End Date:	04/09/2023-11/09/2023
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
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	7	m/s	GGMPL/SOP/MP/01:2020	NS

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### Head Office & Lab

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1132C/930/V2/03

Reporting Date: 12/09/2023

M/s Moil Limited

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




### SAMPLE DETAILS

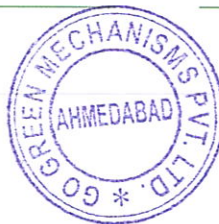
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 01/09/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1132C/930/V2/03	Nr Staff Colony	Day Time	dB(A)Leq	IS 4758	54.6	75

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1133C/93P/V2/01

Reporting Date : 12/09/2023

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/1133C/93P/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	VT Center Borewell (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/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>	161.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	50.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	42.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.38	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	36.45	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.74	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>	275.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.0	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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Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1133C/93P/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	VT Center Borewell (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 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 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	2.0	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



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### SAMPLE DETAILS

Lab ID:	Lab/PN/1133C/93P/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	04/09/2023
Sample Description:	VT Center Borewell (GW)	Analysis End Date:	11/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

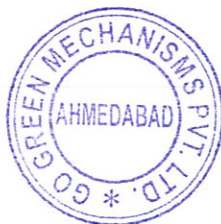
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500

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

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Sachi Patel



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Reporting Date: 12/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

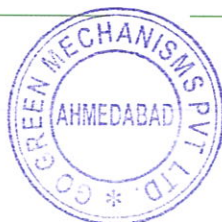
Lab ID:	Lab/PN/1133C/93P/V2/02	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near VT Center	Analysis start- End Date:	04/09/2023-11/09/2023
Env. Cond.-Sampling:	Ambient 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)	62.30	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)	10.88	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.33	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.97	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.33	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1133C/93P/V2/02	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near VT Center	Analysis start- End Date:	04/09/2023-11/09/2023
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
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*

Analyzed By  
Sachi Patel



*Manish*

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1133C/93P/V2/03

Reporting Date: 12/09/2023

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: 01/09/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1133C/93P/V2/03	Nr. VT Center	Day Time	dB(A)Leq	IS 4758	56.7	75

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

*Sachi*  
Analyzed By  
Sachi Patel



*Manish*  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1134C/93Q/V2/01

Reporting Date : 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 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	7.54	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	142	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	42.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	33.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.50	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	24.54	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeble	-	IS 3025 Part-5	Agreeble	Agreeble
9	Sulphate	20.95	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	330	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	220	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

*Kinjal*  
Analyzed By  
Kinjal Damor



*Manish*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1134C/93Q/V2/01

Reporting Date : 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.0	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	4.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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

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Kinjal Damor



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Manish Kumawat

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#### Head Office & Lab

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1134C/93Q/V2/01A

Reporting Date : 16/09/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/01	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 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/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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1134C/93Q/V2/02

Reporting Date : 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/02	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Weigh Bridge (Borewell Water) (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 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	7.25	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	126	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	34.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.58	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	14.09	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	26.46	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	2	400
10	Total Dissolved Solids	294	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	170	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8	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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Manish Kumawat

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Report Number: GGMPL/PN/1134C/93Q/V2/02

Reporting Date : 16/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/02	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Weigh Bridge (Borewell Water) (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	6.74	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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Report Number: GGMPL/PN/1134C/93Q/V2/02A

Reporting Date : 16/09/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/02	Sampling Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Weigh Bridge (Borewell Water) (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 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/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

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Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/03	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.36	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)	15.26	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.77	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.97	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1134C/93Q/V2/03

Reporting Date: 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/03	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Kinjal Damor

Authorized Signatory  
Manish Kumawat



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1134C/93Q/V2/04

Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/04	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.30	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.68	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.07	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.08	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	301	°C	GGMPL/SOP/MP/01	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1134C/93Q/V2/04

Reporting Date: 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1134C/93Q/V2/04	Sampling Start Date:	01/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/09/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	0.00061	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Kinjal Damor



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1134C/93Q/V2/05

Reporting Date: 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

01/09/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1134C/93Q/V2/05A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	59.6	75
2	Lab/PN/1134C/93Q/V2/05B	Near Weight Bridge	Day Time	dB(A)Leq	IS 4758	58.2	75

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1145C/95U/V2/01

Reporting Date : 16/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/01	Sampling Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Waste Water	Analysis Start Date:	07/09/2023
Sample Description:	Mine Pit Water (WW)	Analysis End Date:	15/09/2023
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	7.48	-	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	110.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	1.22	mg/L	IS 3025- Part 38	-
6	DOD at 27 °C for 3 days	31	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.8	mg/L	APHA 23rd Edn 3120 B	-

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

*AB Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMLP/PN/1145C/95U/V2/02

Reporting Date : 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/02	Sampling Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Water	Analysis Start Date:	07/09/2023
Sample Description:	Open Dugwell (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5L	Sampling Method:	GGMLP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.31	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	129.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.46	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	22.95	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	332.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	152.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	11.00	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



*[Signature]*

Authorized Signatory  
Manish Kumawat

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Report Number: GGMPL/PN/1145C/95U/V2/02

M/s Moil Limited

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

Reporting Date : 16/09/2023



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/02	Sampling Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Water	Analysis Start Date:	07/09/2023
Sample Description:	Open Dugwell (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	2.27	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

*AB Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

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Report Number: GGMPL/PN/1145C/95U/V2/02A

Reporting Date : 16/09/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/02	Sampling Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/09/2023
Sample Type:	Water	Analysis Start Date:	07/09/2023
Sample Description:	Open Dugwell (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5L	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

*A. Patel*

Analyzed By  
Aarmi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1145C/95U/V2/03

Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/03	Sampling Start Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	07/09/2023-15/09/2023
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)	64.04	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)	11.10	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.77	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.70	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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

  
Analyzed By  
Aarmi Patel



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/03	Sampling Start Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	07/09/2023-15/09/2023
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
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

*AB Patel*

Analyzed By  
Aarmi 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/1145C/95U/V2/04

Reporting Date: 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/04	Sampling Start Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Waste Dump Side	Analysis start- End Date:	07/09/2023-15/09/2023
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)	72.57	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)	15.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.75	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.15	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

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Analyzed By  
Aarmi Patel



*Manish Kumawat*

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Manish Kumawat

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Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/04	Sampling Start Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Waste Dump Side	Analysis start- End Date:	07/09/2023-15/09/2023
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
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	US EPA Method IO 3.1	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/05	Sampling Start Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	07/09/2023-15/09/2023
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)	37.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.12	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.25	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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TC-7073

### SAMPLE DETAILS

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	07/09/2023-15/09/2023
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
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	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/1145C/95U/V2/06

Reporting Date: 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/06	Sampling Start Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	07/09/2023-15/09/2023
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)	65.31	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.91	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.59	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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Reporting Date: 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1145C/95U/V2/06	Sampling Start Date:	03/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/09/2023
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	07/09/2023-15/09/2023
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
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1145C/95U/V2/07

Reporting Date: 16/09/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 03/09/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1145C/95U/V2/07A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	65.5	75
2	Lab/PN/1145C/95U/V2/07B	Waste Dump Side	Day Time	dB(A)Leq	IS 4758	69.9	75
3	Lab/PN/1145C/95U/V2/07C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	67.8	75
4	Lab/PN/1145C/95U/V2/07D	Mine Road (Near Khasra No.19)	Day Time	dB(A)Leq	IS 4758	65.8	75

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

Analyzed By  
Aarmi Patel



Authorized Signatory  
Manish Kumawat

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