

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/01

Reporting Date : 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Beldongri village borewell near Hanuman mandir (GW)	Analysis End Date:	15/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

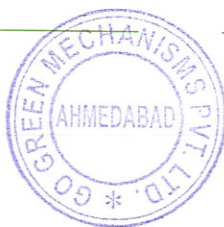
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.56	-	IS 3025-Part 11	6.5 TO 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	153.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	47.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	19.93	mg/L	APHA 23rd Edn 3500 Mg B	75	200
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	21.03	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	NaN
10	Total Dissolved Solids	291.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	200.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as per IS 10500.

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

*Kinjal*  
Analyzed By  
Kinjal Damor



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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(M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Beldongri village borewell near Hanuman mandir (GW)	Analysis End Date:	15/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

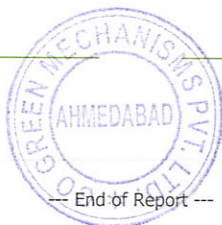
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	11.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Turbidity	2.5	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 Relaxtion
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.72	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxtion

AL & PL as per IS 10500.

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

Analyzed By  
Kinjal Damor



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/01A

Reporting Date : 16/12/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Beldongri village borewell near Hanuman mandir (GW)	Analysis End Date:	15/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

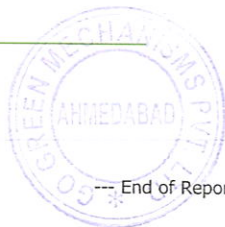
Specification:

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

AL & PL as per IS 10500.

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

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--- End of Report ---

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/02

M/s Moil Limited

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

Reporting Date : 16/01/2024



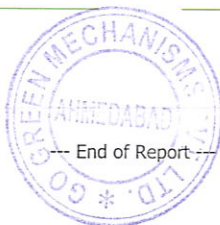
### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/02	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	05/12/2023
Sample Description:	STP inlet (WW)	Analysis End Date:	15/12/2023
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	5.85	-	IS 3025- Part 11	-
2	Total Suspended Solids	140.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	8.00	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	19	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

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Kinjal Damor



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/03

M/s Moil Limited

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

Reporting Date : 16/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/03	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	05/12/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	15/12/2023
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	7.44	-	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	80.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	15	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.102	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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Payal Patel

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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/1714C/79I/V3/04

Reporting Date : 16/12/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/04	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	05/12/2023
Sample Description:	ETP INLET (WW)	Analysis End Date:	15/12/2023
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	6.32	-	IS 3025- Part 11	-
2	Total Suspended Solids	46.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	100.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.90	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	26.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.118	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By  
Kinjal Damor



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Payal Patel

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



### SAMPLE DETAILS

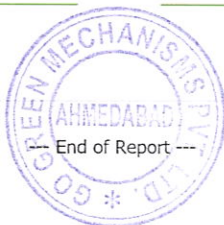
Lab ID:	Lab/PN/1714C/79I/V3/05	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	05/12/2023
Sample Description:	W.W ETP OUTLET	Analysis End Date:	15/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.50	-	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	60.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	11.00	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/06

Reporting Date : 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/06	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	05/12/2023
Sample Description:	W.W Mine Sewage Underground Water	Analysis End Date:	15/12/2023
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	7.25	-	IS 3025- Part 11	-
2	Total Suspended Solids	26.00	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	4.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	16.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/07	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	05/12/2023-15/12/2023
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)	62.83	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)	13.27	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.79	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)	1.04	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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Kinjal Damor

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1714C/79I/V3/07

Reporting Date: 16/12/2023

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/07	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	05/12/2023-15/12/2023
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
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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Kinjal Damor



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--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1714C/79I/V3/08

Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/08	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Electrical Substation	Analysis start- End Date:	05/12/2023-15/12/2023
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)	70.84	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.55	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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### Head Office & Lab

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1714C/79I/V3/08

Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/08	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Electrical Substation	Analysis start- End Date:	05/12/2023-15/12/2023
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
12	Temperature	26	°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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1714C/79I/V3/09

Reporting Date: 16/12/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/09	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Staff Colony	Analysis start- End Date:	05/12/2023-15/12/2023
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)	66.42	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)	9.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.19	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)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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## CERTIFICATE OF ANALYSIS

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M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/09	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Staff Colony	Analysis start- End Date:	05/12/2023-15/12/2023
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
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	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1714C/79I/V3/10

Reporting Date: 16/12/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/10	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Hospital	Analysis start- End Date:	05/12/2023-15/12/2023
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)	62.88	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.35	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)	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)	1.03	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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/LP/1714C/79I/V3/10

Reporting Date: 16/12/2023

M/s Moil Limited

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



TC-7073

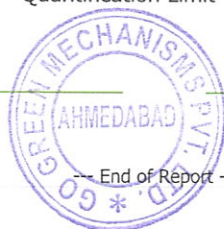
### SAMPLE DETAILS

Lab ID:	Lab/PN/1714C/79I/V3/10	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Hospital	Analysis start- End Date:	05/12/2023-15/12/2023
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
12	Temperature	26	°C	GGMP/LP/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMP/LP/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMP/LP/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	GGMP/LP/SOP/MP/01:2020	NS

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

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Report Number: GGMPL/PN/1714C/79I/V3/11

Reporting Date: 16/12/2023

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



### SAMPLE DETAILS

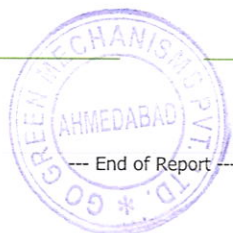
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 30/11/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1714C/7 9I/V3/11A	Nr Compressor room	Day Time	dB(A)Leq	IS 4758	64.9	-
2	Lab/PN/1714C/7 9I/V3/11B	Near vertical fan	Day Time	dB(A)Leq	IS 4758	68.3	-
3	Lab/PN/1714C/7 9I/V3/11C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	60.3	-
4	Lab/PN/1714C/7 9I/V3/11D	Near Jack hammer drill	Day Time	dB(A)Leq	IS 4758	69.6	-

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

Analyzed By  
Kinjal Damor



Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/01

Reporting Date : 13/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1715C/79J/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	OCF Borewell (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	4L	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	7.33	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	78.00	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	78.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.11976	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	25.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	66.93	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	370.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	225.00	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 and PL as per IS 10500

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

*Jhanvi*

Analyzed By  
Jhanvi Chhasatiya



*P.B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/01

Reporting Date : 13/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1715C/79J/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	OCF Borewell (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	4L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

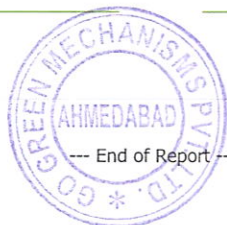
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.26	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as per IS 10500

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

*Jhanvi*

Analyzed By  
Jhanvi Chhasatiya



*P.B. Patel*

Authorized Signatory  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/01A

Reporting Date : 13/12/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1715C/79J/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	OCF Borewell (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	4L	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 and PL as per IS 10500

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

*Jhanvi*

Analyzed By  
Jhanvi Chhasatiya



--- End of Report ---

*P. Patel*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1715C/79J/V3/02

Reporting Date: 13/12/2023

M/s Moil Limited

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




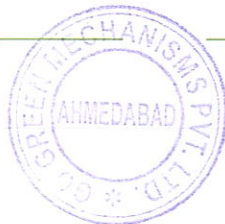
### SAMPLE DETAILS

Lab ID:	Lab/PN/1715C/79J/V3/02	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near OCF	Analysis start- End Date:	05/12/2023-12/12/2023
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)	69.07	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.46	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.05	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)	1.16	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Jhanvi Chhasatiya



  
Authorized Signatory  
Payal Patel

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#### Head Office & Lab

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Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1715C/79J/V3/02

Reporting Date: 13/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1715C/79J/V3/02	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near OCF	Analysis start- End Date:	05/12/2023-12/12/2023
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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Jhanvi Chhasatiya



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1715C/79J/V3/03

Reporting Date: 11/12/2023

M/s Moil Limited

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




### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 30/11/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1715C/79J/V3/03A	Near OCF	Day Time	dB(A)Leq	IS 4758	65.2	-

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

  
Analyzed By  
Jhanvi Chhasatiya



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/01

Reporting Date : 11/12/2023

M/s Moil Limited

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



TC-7073

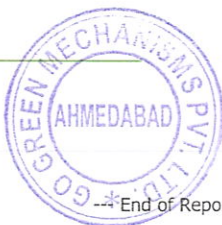
### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	W.W Pit No-2	Analysis End Date:	09/12/2023
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	7.45	-	IS 3025- Part 11	-
2	Total Suspended Solids	36.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	90.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.40	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	21.33	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

--- End of Report ---

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/02

Reporting Date : 11/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/02	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	G.W Mine Borewell	Analysis End Date:	09/12/2023
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	pH at 25 °C	7.53	-	IS 3025-Part 11	6.5 -8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	148.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	62.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.35	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	33.67	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	348.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	176.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL and PL as per IS 10500.

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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/2

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#### Head Office & Lab

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Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/02

M/s Moil Limited

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

Reporting Date : 11/12/2023



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/02	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	G.W Mine Borewell	Analysis End Date:	09/12/2023
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	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	0.09	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.06	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as per IS 10500.

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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/02A

Reporting Date : 11/12/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/02	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	G.W Mine Borewell	Analysis End Date:	09/12/2023
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 and PL as per IS 10500.

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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/03

Reporting Date : 11/12/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/03	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	W.W of Mine Discharge water	Analysis End Date:	09/12/2023
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	7.85	-	IS 3025- Part 11	-
2	Total Suspended Solids	29.00	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	5.2	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	25.33	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.09	mg/L	APHA 23rd Edn 3120 B	-

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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1716C/79K/V3/04

Reporting Date: 11/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/04	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Bahkuri Road	Analysis start- End Date:	04/12/2023-09/12/2023
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)	66.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.56	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.40	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	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

*Vinhal*

Analyzed By  
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Authorized Signatory  
Payal Patel

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Reporting Date: 11/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

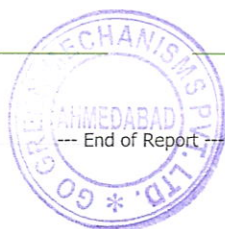
Lab ID:	Lab/PN/1716C/79K/V3/04	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Bahkuri Road	Analysis start- End Date:	04/12/2023-09/12/2023
Env. Cond.-Sampling:	Ambient 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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Vishal*

Analyzed By  
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Payal Patel

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M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/05	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Beldongri Road	Analysis start- End Date:	04/12/2023-09/12/2023
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)	69.77	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)	14.07	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.12	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)	1.11	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

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*Vishal*

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Reporting Date: 11/12/2023

M/s Moil Limited

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



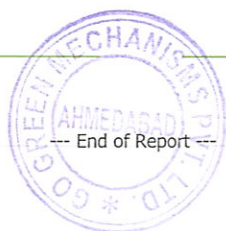
### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/05	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Beldongri Road	Analysis start- End Date:	04/12/2023-09/12/2023
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	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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### Head Office & Lab

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Mobile No : +91-7069072001

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1716C/79K/V3/06

Reporting Date: 11/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/06	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Satak Road	Analysis start- End Date:	04/12/2023-09/12/2023
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)	70.12	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.40	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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

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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1716C/79K/V3/06

Reporting Date: 11/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/06	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Satak Road	Analysis start- End Date:	04/12/2023-09/12/2023
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Vinhal*

Analyzed By  
Jadav Vishal



--- End of Report ---

*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1716C/79K/V3/07

Reporting Date: 05/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/07	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Pit No-2	Analysis start- End Date:	30/11/2023-04/12/2023
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)	68.03	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)	14.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	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

*Vishal*  
Analyzed By  
Jadav Vishal



*P.B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1716C/79K/V3/07

Reporting Date: 05/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1716C/79K/V3/07	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Pit No-2	Analysis start- End Date:	30/11/2023-04/12/2023
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	51	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Vishal*

Analyzed By  
Jadav Vishal



*P.B. Patel*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/08

Reporting Date: 11/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 30/11/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1716C/7 9K/03/08A	Bahkuri Road	Day Time	dB(A)Leq	IS 4758	54.9	-
2	Lab/PN/1716C/7 9K/03/08B	Beldongri Road	Day Time	dB(A)Leq	IS 4758	56.9	-
3	Lab/PN/1716C/7 9K/03/08C	Satak Road	Day Time	dB(A)Leq	IS 4758	57.8	-
4	Lab/PN/1716C/7 9K/03/08D	Nr. Pit No-2	Day Time	dB(A)Leq	IS 4758	54.8	-

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

Analyzed By  
Jadav Vishal



Authorized Signatory  
Payal Patel

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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/01

Reporting Date : 16/12/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/01	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Waste Water	Analysis Start Date:	05/12/2023
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	15/12/2023
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	7.42	-	IS 3025- Part 11	-
2	Total Suspended Solids	10.00	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	4.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	22	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.40	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By  
Dishant Patel



--- End of Report ---

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/02

Reporting Date : 14/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS


Lab ID:	Lab/PN/1717C/79L/V3/02	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	13/12/2023
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	7.29	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	64.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	13.73	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	240.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	201.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

  
Analyzed By  
Dishant Patel



  
Authorized Signatory  
Payal Patel

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Report Number: GGMPL/PN/1717C/79L/V3/02

Reporting Date : 14/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/02	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	13/12/2023
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	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	2.26	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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



Analyzed By  
Dishant Patel



--- End of Report ---



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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/02A

Reporting Date : 14/12/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/02	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Hiwra Village Borewell (GW)	Analysis End Date:	13/12/2023
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/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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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/03

Reporting Date : 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS


Lab ID:	Lab/PN/1717C/79L/V3/03	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	15/12/2023
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	7.41	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	131.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.67	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)	0.27	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	17.25	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.94	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	263.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	165.00	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

AI & PL As per IS 10500

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Analyzed By  
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Payal Patel

Page No : 1/2

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### Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/03

Reporting Date : 16/12/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/03	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	15/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

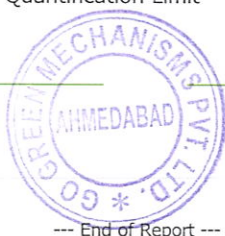
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	0.05	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.59	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL As per IS 10500

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



Analyzed By  
Dishant Patel



--- End of Report ---



Authorized Signatory  
Payal Patel

Page No : 2/2

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Mobile No : +91-7069072001

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1717C/79L/V3/03A

Reporting Date : 16/12/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/03	Sampling Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	04/12/2023
Sample Type:	Water	Analysis Start Date:	05/12/2023
Sample Description:	Bankuri Village Borewell (GW)	Analysis End Date:	15/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AI & PL As per IS 10500

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

Analyzed By  
Dishant Patel



--- End of Report ---

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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/04

Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/04	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	05/12/2023-15/12/2023
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)	63.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.75	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.06	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.18	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.11	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/04

Reporting Date: 16/12/2023

M/s Moil Limited

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



TC-7073

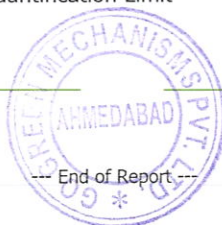
### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/04	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	05/12/2023-15/12/2023
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	54	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/05

Reporting Date: 16/12/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS


Lab ID:	Lab/PN/1717C/79L/V3/05	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near East Boundary Wall	Analysis start- End Date:	05/12/2023-15/12/2023
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)	65.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.63	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	16.67	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Dishant Patel



  
Authorized Signatory  
Payal Patel

Page No : 1/2

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/05

Reporting Date: 16/12/2023

M/s Moil Limited

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



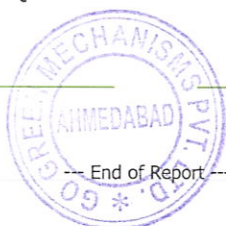
### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/05	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near East Boundary Wall	Analysis start- End Date:	05/12/2023-15/12/2023
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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Dishant Patel



Authorized Signatory  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/06

Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/06	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near West Boundary Wall	Analysis start- End Date:	05/12/2023-15/12/2023
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)	62.79	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.83	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.54	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.72	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.89	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

  
Analyzed By  
Dishant Patel



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/06

Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/06	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near West Boundary Wall	Analysis start- End Date:	05/12/2023-15/12/2023
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	29	°C	GGMPL/SOP/MP/01	NS
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	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/07

Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/07	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near South Boundary Wall	Analysis start- End Date:	05/12/2023-15/12/2023
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)	65.75	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)	11.86	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.56	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.02	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	16.67	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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1717C/79L/V3/07

Reporting Date: 16/12/2023

M/s Moil Limited

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



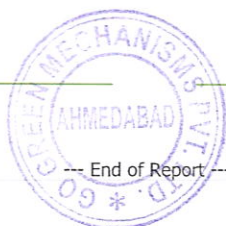
### SAMPLE DETAILS

Lab ID:	Lab/PN/1717C/79L/V3/07	Sampling Start Date:	30/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	04/12/2023
Sample Description:	Near South Boundary Wall	Analysis start- End Date:	05/12/2023-15/12/2023
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	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/08

Reporting Date: 16/12/2023

M/s Moil Limited

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



### SAMPLE DETAILS

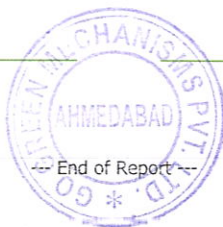
Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 30/11/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1717C/7 9L/V3/08A	Nr. Mine Pit	Day Time	dB(A)Leq	IS 4758	64.8	-
2	Lab/PN/1717C/7 9L/V3/08B	Nr. Este Boundry Wall	Day Time	dB(A)Leq	IS 4758	64.2	-
3	Lab/PN/1717C/7 9L/V3/08C	Nr.West Boundry Wall	Day Time	dB(A)Leq	IS 4758	63.1	-
4	Lab/PN/1717C/7 9L/V3/08D	Nr.South Boundry Wall	Day Time	dB(A)Leq	IS 4758	61.5	-

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