

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/2008D/79I/01

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2008D/79I/01

Laboratory Representative

Ambient Air Near Haul Road

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 18/09/2024

19/09/2024 20/09/2024

21/09/2024-27/09/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.84	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.81	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.16	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.62	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

Authorized Signatory Gyanvati Shukla

Page No: 1/2

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(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Lab/PN/2008D/79I/01 Laboratory Representative Ambient Air Near Haul Road Env. Cond.-Sampling: Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

19/09/2024 20/09/2024 21/09/2024-27/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Gyanvati Shukla

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/02

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2008D/79I/02

Laboratory Representative

Ambient Air

Near Electrical Substation Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date: Total Sampling hours: 21/09/2024-27/09/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25:

25±5°C

18/09/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.97	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.34	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.65	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.083	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor Authorized Signatory Gyanvati Shukla

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M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2008D/79I/02 Laboratory Representative

Ambient Air

Near Electrical Substation Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

18/09/2024 19/09/2024 20/09/2024

21/09/2024-27/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

> Analyzed By Kinjal Damor

Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/03

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2008D/79I/03

Laboratory Representative

Ambient Air Near Staff Colony Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:
Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 19/09/2024 20/09/2024

18/09/2024

21/09/2023-27/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.57	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.64	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.57	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.55	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor AHMEDABAD P

Authorized Signatory Gyanvati Shukla

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M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2008D/79I/03 Laboratory Representative Ambient Air Near Staff Colony Ambient Temperature Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

20/09/2024 21/09/2023-27/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

--- End of Report ---

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Authorized Signatory Gyanvati Shukla

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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)

Reporting Date: 28/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2008D/79I/04

Laboratory Representative

Ambient Air Near Hospital

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

18/09/2024

19/09/2024

20/09/2024

21/09/2023-27/09/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.10	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.94	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.30	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor AHMEDABAD PY

Authorized Signatory Gyanvati Shukla

Page No: 1/2

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond. Sample Receipt: Lab/PN/2008D/79I/04 Laboratory Representative

Ambient Air Near Hospital

Ambient Temperature Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date:

21/09/2023-27/09/2024

Total Sampling hours: Env. Cond.-Testina:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

End of Report -

Authorized Signatory Gyanvati Shukla

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/05

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

18/09/2024

Source Noise

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

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

Analyzed By Kinjal Damor

--- End of Report ---

Authorized Signatory Gyanvati Shukla

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/2008D/79I/06

Sampling Date:

19/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

20/09/2024

Sample Type:

Ground Water

Analysis Start Date: Analysis End Date: 21/09/2024 27/09/2024

Sample Description:

G.W of village hanuman Mandir

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

					S	ecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	151.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	33.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.47	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.82		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.40	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	221.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By
Kinjal Damor

AHMEDABAD S P

Authorized Signatory Gyanvati Shukla

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2008D/79I/06

Laboratory Representative Ground Water

G.W of village hanuman Mandir

3 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

27/09/2024 GGMPL/WI/27A

19/09/2024

20/09/2024

21/09/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	130.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.18	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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

Kinial Damor

End of Report ---

Authorized Signatory Gyanvati Shukla

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2008D/79I/07

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Waste Water

Sample Quantity:

STP inlet (WW) 5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

19/09/2024

20/09/2024 21/09/2024 27/09/2024

27/09/2024 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.43	K#8	IS 3025- Part 11	-
2	Total Suspended Solids	124.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	8.00	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand	132.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	6.5	mg/L	IS 3025- Part 38	*
6	BOD at 27 o C for 3 days	37	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By Kinjal Damor

--- End of Report ---

AHMEDABA

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2008D/79I/08

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Waste Water STP Outlet(WW)

Sample Quantity:

5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

19/09/2024

20/09/2024 21/09/2024

27/09/2024 GGMPL/WI/27A

Sealed

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

Norms as per CTO.

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

Analyzed By

Kinjal Damor

End of Report -

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date : 28/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2008D/79I/09

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description: Sample Quantity: ETP Inlet (WW)

Sample Condition:

5 L

Satisfactory

Sampling Date:

19/09/2024

Sample Receipt Date:

20/09/2024

Analysis Start Date: Analysis End Date: 21/09/2024

Sampling Method:

27/09/2024 GGMPL/WI/27A

Packing:

Sealed

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

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

Analyzed By Kinjal Damor AHMEDABAD PE

Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/2008D/79I/10

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description: Sample Quantity:

ETP Outlet (WW)

Sample Condition:

5 L

Satisfactory

Sampling Date:

19/09/2024

Sample Receipt Date:

20/09/2024

Analysis Start Date:

21/09/2024

Analysis End Date:

27/09/2024 GGMPL/WI/27A

Sampling Method:

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.71	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	16.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	28.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	5.0	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms as per CTO.

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

Analyzed By Kinjal Damor

--- End of Report ---

AHMEDABAD

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2008D/79I/11

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2008D/79I/11

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Mine Seapage Underground Water (WW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

19/09/2024 20/09/2024

21/09/2024

27/09/2024 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.63	-	IS 3025- Part 11	-
2	Total Suspended Solids	31.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	*
4	Chemical Oxygen Demand	76.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.3	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	20	mg/L	IS 3025- Part 44	7 7 1 1 1 2 2 2 3
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By Kinjal Damor

End of Report -

CHAN

AHMEDABAD

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 25/09/2024



TC-7073

19/09/2024

20/09/2024

20/09/2024

25/09/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2009D/79I/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity: Sample Condition:

500 ml

G.W Mine Borewell

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

GGMPL/WI/27A

Packing: Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2010D/79J/01

Laboratory Representative

Ambient Air Near OCF

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

19/09/2024 20/09/2024

18/09/2024

21/09/2024-27/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.70	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.97	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.36	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.55	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.86	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Aarmi Patel

Authorized Signatory Gyanvati Shukla

Page No: 1/2



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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2010D/79J/01

Laboratory Representative

Ambient Air Near OCF

Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 18/09/2024 19/09/2024 20/09/2024

21/09/2024-27/09/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	30	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 30 Relative Humidity 57 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 30 °C Relative Humidity 57 % Rainfall 0.0 mm Lead BQL (QL=0.001) μg/m3	Temperature 30 °C GGMPL/SOP/MP/01 Relative Humidity 57 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Aarmi Patel

--- End of Report ---

AHMEDABAD

Authorized Signatory Gyanvati Shukla

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

18/09/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2010D/7 9J/02	Near OCF	Day Time	dB(A)Leq	IS 4758	57.6	-

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

Aarmi Patel

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2010D/79J/03

Water

3 L

Sample Description:

Sample Quantity:

Sample Condition:

Laboratory Representative

OCF Borewell(GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

19/09/2024

20/09/2024 21/09/2024

27/09/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	208.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	52.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	25.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	·#	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.52	7 T.Y	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.23	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	308.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	219.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Analyzed By Aarmi Patel

Authorized Signatory Gyanvati Shukla

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date : 28/09/2024

TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2010D/79J/03 Laboratory Representative

sentative

Water

Sample Description: Sample Quantity: OCF Borewell(GW)

Sample Condition:

3 L Satisfactory Sampling Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis Start Date: 21/09/2024
Analysis End Date: 27/09/2024
Sampling Method: GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No		Parameters	Results	Unit	Test Method	Al	PI
13	Turbidity		BQI (QI =0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate		1,12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL AS Per IS 10500

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

Analyzed By Aarmi Patel AHMEDARAD PV

Authorized Signatory Gyanvati Shukla

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011D/79J/01

M/s Moil Limited

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

(M.S)

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2011D/79J/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Condition:

Ground Water

Sample Description: Sample Quantity:

OCF Borewell (GW)

Satisfactory

500 ml

Sampling Date:

19/09/2024 20/09/2024

Sample Receipt Date: Analysis Start Date:

20/09/2024

Analysis End Date: Sampling Method:

25/09/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

HMEDAB d of Report -

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012D/79K/01 Laboratory Representative

Ambient Air Bahkuri Road Ambient Temperature

Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date:

Analysis start- End Date:

24 Total Sampling hours: Env. Cond.-Testing:

20/09/2024 20/09/2024-28/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.75	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.04	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.55	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Parl 11	5
8	Renzo(a) pyrene	BQI (QI =0 5)	ng/m3	Is 5187- Part 17	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 Priyanka Shrimali Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012D/79K/01 Laboratory Representative

Ambient Air Bahkuri Road

Ambient Temperature Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date: Total Sampling hours:

20/09/2024-28/09/2024

24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

End of Report -

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Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012D/79K/02

Laboratory Representative

Ambient Air Beldongri Road

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

20/09/2024-28/09/2024

18/09/2024

19/09/2024

20/09/2024

25±5°C

24

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

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

Analyzed By Priyanka Shrimali

Authorized Signatory Payal Patel

Page No: 1/2

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012D/79K/02

Laboratory Representative

Ambient Air Beldongri Road

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

20/09/2024-28/09/2024

18/09/2024

19/09/2024

20/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13 F	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14 F	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15 l	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 \	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

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: GGMPL/PN/2012D/79K/03

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2012D/79K/03 Laboratory Representative

Ambient Air Near Satak Road Ambient Temperature

Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date: 20/09/2024-28/09/2024 Total Sampling hours: 24

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	55.16 ⁻	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	20.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.71	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.15	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.16	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012D/79K/03

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012D/79K/03 Laboratory Representative

Ambient Air Near Satak Road Ambient Temperature

Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date: 20 Total Sampling hours: 24

20/09/2024-28/09/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012D/79K/04 Laboratory Representative

Ambient Air Near Pit No-2 Ambient Temperature

Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date: Total Sampling hours: 24

Env. Cond.-Testing:

20/09/2024-28/09/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.16	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012D/79K/04 Laboratory Representative

Ambient Air Near Pit No-2 Ambient Temperature

Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date: 2
Total Sampling hours: 2

20/09/2024-28/09/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

18/09/2024

Source Noise

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

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

Analyzed By Priyanka Shrimali

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2012D/79K/06 Laboratory Representative Sampling Date: Sample Receipt Date: 19/09/2024 20/09/2024

Sample Type: Sample Description:

Waste Water W.W Pit No-2

Analysis Start Date: Analysis End Date:

20/09/2024 28/09/2024

Sample Quantity: Sample Condition:

5 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	-	IS 3025- Part 11	-
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	1
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	æn
6	BOD at 27 o C for 3 days	23.07	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	2.5

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

Priyanka Shrimali

* End of Report - Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2012D/79K/08

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

W.W of Mine Discharge water

5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

19/09/2024 20/09/2024

Analysis Start Date:

20/09/2024

Analysis End Date: Sampling Method: 28/09/2024 GGMPL/WI/27A

Packing:

Sealed

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

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

Analyzed By Priyanka Shrimali

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



SAMPLE DETAILS

Sample Drawn By:

Sample Description:

Sample Condition:

Sample Type:

Lab ID:

Lab/PN/2012D/79K/07

Laboratory Representative

Sample Receipt Date:

19/09/2024 20/09/2024

G.W Mine Borewell

Analysis Start Date: Analysis End Date:

Sampling Date:

20/09/2024 28/09/2024 GGMPL/WI/27A

Sample Quantity:

3 L

Satisfactory

Sampling Method:

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	30.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.45		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.22	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	246.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	160.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Haldriess as Cacos	100.00	mg/L	APRIA 2310 Edit 2340 C	200	

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2012D/79K/07

Sampling Date:

19/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

20/09/2024 20/09/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date:

28/09/2024

Sample Quantity: Sample Condition:

G.W Mine Borewell 31

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.24	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2013D/79K/01

M/s Moil Limited

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

Reporting Date: 26/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2013D/79K/01

Sampling Date:

19/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

20/09/2024

Sample Type:

Ground Water

G.W Mine Borewell

Analysis Start Date: Analysis End Date:

20/09/2024 25/09/2024

Sample Description:

500 ml

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

End of Report -

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC 7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2014D/79L/01

Laboratory Representative

Ambient Air Near Mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

18/09/2024

19/09/2024 20/09/2024

21/09/2024-26/09/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	N/\/Q Standards
1	Particulate Matter (PM10)	66.96	μg/m3	IS 5182- Parl 23	100
2	Particulate Matter (PM2.5)	34.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.39	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.88	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.54	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.67	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/2014D/79L/01 Laboratory Representative

Ambient Air Near Mine Pit Ambient Temperature

Satisfactory

Sampling Start Date: 18/09/2024 Sampling End Date: 19/09/2024 Sample Receipt Date: 20/09/2024

Analysis start- End Date: Total Sampling hours:

21/09/2024-26/09/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2014D/79L/02

Laboratory Representative

Ambient Air

Near East Boundary Wall Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

18/09/2024 19/09/2024

20/09/2024

21/09/2024-26/09/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.18	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.59	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.67	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.78	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.67	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2014D/79L/02 Laboratory Representative

Ambient Air

Near East Boundary Wall Ambient Temperature

Satisfactory

Sampling Start Date: 18, Sampling End Date: 19,

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:
Fnv Cond -Testing:

18/09/2024 19/09/2024 20/09/2024

21/09/2024-26/09/2024

rs: 24 · 25+5°C

perature tive Humidity	32	°C	GGMPL/SOP/MP/01	NS
tivo Uumidity				IVO
uve numbury	57	%	GGMPL/SOP/MP/01	NS
fall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
I Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS
		BQL (QL=0,001)	BQL (QL=0.001) μg/m3	BQL (QL=0.001) μg/m3 USEPA Method TO 3.4

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

Analyzed By Sachi Patel

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



21/09/2024-26/09/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2014D/79L/03

Laboratory Representative

Ambient Air

Near West Boundary Wall Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

24

25±5°C

18/09/2024

19/09/2024

20/09/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.59	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.62	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.85	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.19	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By

Authorized Signatory Payal Patel

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2014D/79L/03

Laboratory Representative

Ambient Air

Near West Boundary Wall Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

20/09/2024

18/09/2024

19/09/2024

24 Env. Cond.-Testing: 25±5°C

21/09/2024-26/09/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Authorized Signatory Payal Patel

Page No: 2/2

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End of Report ---



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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2014D/79L/04

Laboratory Representative

Ambient Air

Near South Boundary Wall Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

18/09/2024

19/09/2024 20/09/2024

21/09/2024-26/09/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.19	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.39	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.51	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	μg/m3	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)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

CHAN

AHMEDABI

Analyzed By

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

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/2014D/79L/04 Laboratory Representative

Ambient Air Near South Boundary Wall

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

21/09/2024-26/09/2024

18/09/2024

19/09/2024

20/09/2024

25±5°C

12 Temperature 31 °C GGMPL/SOP/MP/01 NS 13 Relative Humidity 57 % GGMPL/SOP/MP/01 NS 14 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 NS 15 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4 1 16 Wind Speed 2.1 m/s GGMPL/SOP/MP/01:2020 NS	Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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	12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
15 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4 1	13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
29 2010 Pg/110 COE/11 Tediod to 5.1	14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
16 Wind Speed 2.1 m/s GGMPL/SOP/MP/01:2020 NS	15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
	16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel

--- End of Report ---

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2014D/79L/06

19/09/2024

Sample Drawn By: Sample Type:

Laboratory Representative

20/09/2024

Sample Description:

Waste Water Mine Discharge Water (WW) Sample Receipt Date: Analysis Start Date: 21/09/2024

Sample Quantity:

5 L

Analysis End Date: Sampling Method:

Sampling Date:

26/09/2024 GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

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

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

Analyzed By Sachi Patel

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2014D/79L/07

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Hiwra Village Borewell (GW)

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 20/09/2024 21/09/2024

19/09/2024

26/09/2024 GGMPL/WI/27A

Sealed

Specification:

8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS						_	pecineacioni
2 Calcium as Ca 50.10 mg/L APHA 23rd Edn 3500 Ca B /5 3 Chloride 76.98 mg/L IS 3025- Part 32 250 4 Colour BQL (QL=1) CU IS 3025- Part 4 5 5 Fluoride 0.17 mg/L APHA 23rd Edn 4500 F D 1.0 6 Magnesium as Mg 24.30 mg/L APHA 23rd Edn 3500 Mg B 30 7 Odour Agreeable - IS 3025- Part 5 Agreeable 8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	Sr.No	Parameters	Results	Unit	Test Method	AL	PL
3 Chloride 76.98 mg/L IS 3025- Part 32 250 4 Colour BQL (QL=1) CU IS 3025- Part 4 5 5 Fluoride 0.17 mg/L APHA 23rd Edn 4500 F D 1.0 6 Magnesium as Mg 24.30 mg/L APHA 23rd Edn 3500 Mg B 30 7 Odour Agreeable - IS 3025- Part 5 Agreeable 8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	1	Alkalinity as CaCO3	122.00	mg/L	APHA 23rd Edn 2320 B	200	600
4 Colour BQL (QL=1) CU IS 3025- Part 4 5 5 Fluoride 0.17 mg/L APHA 23rd Edn 4500 F D 1.0 6 Magnesium as Mg 24.30 mg/L APHA 23rd Edn 3500 Mg B 30 7 Odour Agreeable - IS 3025- Part 5 Agreeable 8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	2	Calcium as Ca	50.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
5 Fluoride 0.17 mg/L APHA 23rd Edn 4500 F D 1.0 6 Magnesium as Mg 24.30 mg/L APHA 23rd Edn 3500 Mg B 30 7 Odour Agreeable - IS 3025- Part 5 Agreeable 8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	3	Chloride	76.98	mg/L	IS 3025- Part 32	250	1000
6 Magnesium as Mg 24.30 mg/L APHA 23rd Edn 3500 Mg B 30 7 Odour Agreeable - IS 3025- Part 5 Agreeable 8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
7 Odour Agreeable - IS 3025- Part 5 Agreeable 8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	5	Fluoride	0.17	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
8 pH at 25 °C 7.58 - IS 3025- Part 11 6.5-8.5 9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	6	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
9 Sulphate 30.59 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	7	Odour	Agreeable	12	IS 3025- Part 5	Agreeable	e Agreeable
10 Total Dissolved Solids (TDS) 342.00 mg/L APHA 23rd Edn 2540 C 500 11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	8	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
11 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS	9	Sulphate	30.59	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
	10	Total Dissolved Solids (TDS)	342.00	mg/L	APHA 23rd Edn 2540 C	500	2000
42 7 1 11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12 Total Hardness as CaCO3 225.00 mg/L APHA 23rd Edn 2340 C 200	12	Total Hardness as CaCO3	225.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel AHMEDABAD PV

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Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2014D/79L/07 Laboratory Representative Sampling Date: Sample Receipt Date:

Packing:

19/09/2024 20/09/2024 21/09/2024

Sample Type:

Water Hiwra Village Borewell (GW) Analysis Start Date: 21/09/2024
Analysis End Date: 26/09/2024
Sampling Method: GGMPL/WI/27/

Sample Description: Sample Quantity: Sample Condition:

7 I

Satisfactory

ethod: GGMPL/WI/27A Sealed

Specification:

H	Sr.No	Parameters	Results	Unit	Test Method	AL	PL
	13	Turbidity	1.3	NTU	APHA 23rd Edn 2130 B	1	5
	14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
	15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
	16	Nitrate	3.57	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel AHMEDABAD TO A STATE OF THE PART OF THE PA

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-707

SAMPLE DETAILS

Lab ID:

Lab/PN/2014D/79L/08

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Bankuri Village Borewell (GW)

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

19/09/2024

Sample Receipt Date: Analysis Start Date: 20/09/2024 21/09/2024

Analysis End Date:

26/09/2024

Sampling Method:

26/09/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	116.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	46.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	64.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.21	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.66	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 °C	7.68		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.35	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	285.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	201.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2014D/79L/08

Sampling Date:

19/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

20/09/2024 21/09/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

26/09/2024

Sample Description:

Bankuri Village Borewell (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.68	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel

--- End of Report ---

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

18/09/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2014D/7 9L/05A	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	54.9	-
2	Lab/PN/2014D/7 9L/05B	Nr East Boundary Wall	Day Time	dB(A)Leq	IS 4758	53.2	
3	Lab/PN/2014D/7 9L/05C	Nr West Boundary Wall	Day Time	dB(A)Leq	IS 4758	57.6	_
4	Lab/PN/2014D/7	Nr South Boundary Wall	Day Time	dB(A)Leq	IS 4758	59.2	

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

Analyzed By Sachi Patel

End of Report

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2015D/79L/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Hiwra Village Borewell (GW)

Sample Quantity: Sample Condition:

Satisfactory

500 ml

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

19/09/2024

20/09/2024 20/09/2024

25/09/2024

GGMPL/WI/27A

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

- End of Report ---

CHAA

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2015D/79L/02

Sample Drawn By: Sample Type:

Laboratory Representative

Ground Water

Sample Description:

Bankuri Village Borewell (GW)

Sample Quantity: Sample Condition:

500 ml Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

19/09/2024

20/09/2024 20/09/2024

25/09/2024 GGMPL/WI/27A

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

End of Report -

Authorized Signatory Dr. Haragobinda Srichandan

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