

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/593D/79I/01

M/s Moil Limited

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

Reporting Date: 08/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/593D/79I/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Ground Water

Sample Quantity: Sample Condition: Beldongri Village (GW)

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

29/05/2024

31/05/2024 01/06/2024 07/06/2024

GGMPL/WI/27A Sealed

Chacification

						pecification
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	130.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	42.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.64	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.66	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 °C	7.63		IS 3025- Part 11	6.5-8.5	No
9	Sulphate	38.22	mg/L	APHA 23rd Edn 4500 SO4 E	200	Relaxation 400
10	Total Dissolved Solids (TDS)	263.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	146.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

Authorized Signatory Manish Kumawat

Page No: 1/2

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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: 08/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/593D/79I/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Beldongri Village (GW)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

31/05/2024 01/06/2024

29/05/2024

07/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	P	arameters	Results	Unit	Test Method	AL	PL
13	Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate		1.80	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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

Nidhi Shah

--- End of Report ---

HAA

AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/593D/79I/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

STP inlet (WW)

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

29/05/2024 31/05/2024

Analysis Start Date:

01/06/2024

Analysis End Date: Sampling Method:

Packing:

07/06/2024 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38	-	IS 3025- Part 11	-
2	Total Suspended Solids	104.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	7.00	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	6.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	38	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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





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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/593D/79I/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

STP Outlet(WW)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

29/05/2024

Sample Receipt Date:

31/05/2024

Analysis Start Date:

01/06/2024

Analysis End Date: Sampling Method:

07/06/2024 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.81		IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	27.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	30.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	12	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	2

Norms as per CCA.

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

Analyzed By Nidhi Shah

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/593D/79I/04

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Waste Water ETP Inlet (WW)

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

29/05/2024

31/05/2024 01/06/2024 07/06/2024

GGMPL/WI/27A

Sealed

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

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

Analyzed By Nidhi Shah

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/05

M/s Moil Limited

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

Reporting Date: 08/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/593D/79I/05

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

ETP Outlet (WW)

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

29/05/2024

31/05/2024 01/06/2024

07/06/2024

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.28	-0	IS 3025- Part 11	-
2	Total Suspended Solids	12.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	20.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	3.70	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	8	mg/L	IS 3025- Part 44	
7	Manganese	0.104	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By

Nidhi Shah

AHMEDABAD

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/593D/79I/06

Laboratory Representative

Waste Water

Sample Type: Sample Description:

Mine Seapage Underground Water (WW)

Sample Quantity:

3.5 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

29/05/2024

31/05/2024

01/06/2024 07/06/2024 GGMPL/WI/27A

Sealed

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

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



AHMEDABAD * Bad of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/593D/79I/07

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: 29/05/2024

30/05/2024 31/05/2024

01/06/2024-07/06/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.58	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.13	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.87	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.85	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah AHMEDABAD 2

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/593D/79I/07

Laboratory Representative Ambient Air

Near Haul Road Ambient Temperature

Satisfactory

Sampling Start Date: 29/05/2024 Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

30/05/2024 31/05/2024

01/06/2024-07/06/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

Nidhi Shah

AHMEDABAD

9 * End of Report --- Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/593D/79I/08

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:

30/05/2024 31/05/2024

29/05/2024

01/06/2024-07/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.59	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.01	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.68	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.16	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



29/05/2024

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/593D/79I/08 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:

30/05/2024 31/05/2024

01/06/2024-07/06/2024

21
25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/593D/79I/09

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: 29/05/2024 30/05/2024 31/05/2024

01/06/2024-07/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.43	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.70	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/593D/79I/09 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:

30/05/2024 31/05/2024 01/06/2024-07/06/2024

29/05/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/10

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/593D/79I/10

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: 29/05/2024 30/05/2024

31/05/2024 01/06/2024-07/06/2024

24

ent remperature	rotal Sampling nours.	24
factory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.51	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.38	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.76	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.17	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah AHMEDABAD P

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/10

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/593D/79I/10

Laboratory Representative

Ambient Air

Ambient Temperature Satisfactory

Near Hospital

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

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

29/05/2024 30/05/2024 31/05/2024

01/06/2024-07/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/593D/79I/11

M/s Moil Limited

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

(M.S)

Reporting Date: 08/06/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

29/05/2024

Source Noise

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

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

Analyzed By Nidhi Shah

- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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/597D/79I/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Village Borewell (GW)

Sample Quantity: Sample Condition: 500 ml Satisfactory Sampling Date:

29/05/2024

Sample Receipt Date: Analysis Start Date: 31/05/2024 01/06/2024

Analysis End Date:

06/06/2024 GGMPL/WI/27A

Sampling Method: 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, BOL=Below Quantification Limit,QL= Quantification Limit

Bidri.

Analyzed By Nidhi Shah AHMEDABAD OF A COLOR OF THE CHANGE REPORT --

Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/594D/79J/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

OCF Borewell (GW)

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

29/05/2024

31/05/2024 01/06/2024

06/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	216.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	56.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	56.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.22	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	20.90	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	- "	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	45.04	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	316.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	228.0	mg/L	APHA 23rd Edn 2340 C	200	400
12	Total Suspended Solids (TSS)	6.7	mg/L	APHA 23rd Edn 2540 D	NS	NS

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

A.m. Babapus

Analyzed By Prajapati Akshay

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/594D/79J/01

Sampling Date:

29/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: 31/05/2024 Analysis Start Date:

01/06/2024 06/06/2024

Sample Description:

OCF Borewell (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5 L Satisfactory

Packing: Sealed

Specification:

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

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

Analyzed By Prajapati Akshay

Authorized Signatory

Manish Kumawat

--- End of Report ---

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 07/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/594D/79J/02

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:

29/05/2024

30/05/2024 31/05/2024

01/06/2024-06/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.92	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.29	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.02	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Prajapati Akshay

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 07/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/594D/79J/02

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: 29/05/2024 30/05/2024 31/05/2024

01/06/2024-06/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39.0	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Prajapati Akshay

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 07/06/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

29/05/2024

Source Noise

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

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

A.m. Bosupal

Analyzed By Prajapati Akshay

End-of Report

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/598D/79J/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity:

OCF Borewell (GW) 500 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

31/05/2024 01/06/2024

29/05/2024

Analysis End Date:

06/06/2024 GGMPL/WI/27A

Sampling Method:

Sealed

Packing:

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/592D/79L/01

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/592D/79L/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Mine Discharge Water (WW)

Sample Quantity:

Sample Condition:

3.5 L

Salisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

30/05/2024

31/05/2024 31/05/2024 06/06/2024

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.85	-	IS 3025- Part 11	-
2	Total Suspended Solids	14.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	- 1
4	Chemical Oxygen Demand	90.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	31	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By Priyanka Shrimali End of Report

Authorized Signatory Manish Kumawat

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/592D/79L/02

Laboratory Representative

Sample Receipt Date:

30/05/2024

Sample Drawn By: Sample Type:

aboratory Represe

Sample Receipt Date: Analysis Start Date: 31/05/2024 31/05/2024

Sample Description:

Hiwra Village Borewell (GW)

Analysis End Date:

06/06/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Method: Packing:

Sealed

king: Se

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	165.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	59.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.46	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	18.71	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.52		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	20.47	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	286.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	195.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali



Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Lab/PN/592D/79L/02

Laboratory Representative

Water

Sample Description: Sample Quantity: Hiwra Village Borewell (GW) 3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: 06/06/2024 GGMPL/WI/27A

30/05/2024

31/05/2024

31/05/2024

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.9	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.44	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

--- End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 07/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/592D/79L/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Sample Condition:

Bankuri Village Borewell (GW)

Sample Quantity:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

30/05/2024

31/05/2024 31/05/2024

06/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	145.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	54.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	60.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	9.72	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	30.51	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	298.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	175.00	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





Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/592D/79L/03

Sampling Date:

30/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

31/05/2024 31/05/2024

Sample Description:

Water Bankuri Village Borewell (GW)

Analysis End Date:

06/06/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5 L Satisfactory Sampling Method: Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.8	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.59	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/592D/79L/04

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:

24

Env. Cond.-Testing:

31/05/2024-06/06/2024

25±5°C

29/05/2024

30/05/2024

31/05/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.30	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.11	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.52	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.89	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/592D/79L/04

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:

Total Sampling hours: Env. Cond.-Testing: 29/05/2024 30/05/2024 31/05/2024

31/05/2024-06/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

--- End of Report --

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/592D/79L/05

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/592D/79L/05

Near East Boundary Wall Ambient Temperature

Laboratory Representative Ambient Air

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

29/05/2024 30/05/2024

31/05/2024 31/05/2024-06/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.23	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.86	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.65	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.83	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.045	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/592D/79L/05

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/592D/79L/05

Laboratory Representative

Ambient Air

Satisfactory

Near East Boundary Wall Ambient Temperature Sampling Start Date:

Sampling End Date: Sample Receipt Date:

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

End Date: 31/05/2024-06/06/2024 hours: 24

25±5°C

29/05/2024

30/05/2024

31/05/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	42	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

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

Е

Lab/PN/592D/79L/06 Laboratory Representative

Ambient Air

Near West Boundary Wall

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

Analysis start- End Date:

31/05/2024 31/05/2024-06/06/2024

29/05/2024

30/05/2024

Env. CondSampling:	Ambient Temperature	Total Sampling hours:	24
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.43	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.05	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.57	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/592D/79L/06 Laboratory Representative Ambient Air

Near West Boundary Wall Ambient Temperature Satisfactory

 Sampling Start Date:
 29/05/2024

 Sampling End Date:
 30/05/2024

 Sample Receipt Date:
 31/05/2024

 Analysis start- End Date:
 31/05/2024-06/06/2024

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

12 Temperature 81 °C GGMPL/SOP/MP/01	NS
13 Relative Humidity 41 % GGMPL/SOP/MP/01	NS
14 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020	NS
15 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4	1
16 Wind Speed 3.0 m/s GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali --- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/592D/79L/07 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:

30/05/2024 31/05/2024

29/05/2024

31/05/2024-06/06/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.01	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.65	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.89	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.99	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.46	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Priyanka Shrimali

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/592D/79L/07 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:

31/05/2024 31/05/2024-06/06/2024

29/05/2024

30/05/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 07/06/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/05/2024

Source Noise

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

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

nalyzed By Privanka Shrimali

End of Repor

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/596D/79L/01

M/s Moil Limited

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

Reporting Date: 06/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/596D/79L/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Hiwra Village Borewell (GW)

Sample Quantity: Sample Condition: 500 ml Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

29/05/2024

31/05/2024 01/06/2024

06/06/2024 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

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 06/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/596D/79L/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Bankuri Village Borewell (GW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

29/05/2024 31/05/2024

Analysis Start Date:

01/06/2024

Analysis End Date: Sampling Method:

06/06/2024 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



Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/591D/79K/08

Sampling Date:

29/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

31/05/2024 01/06/2024

Sample Type: Sample Description: Water Mine Borewell (GW) Analysis Start Date: Analysis End Date:

08/06/2024

Sample Quantity:

3.5 L

Sampling Method:

GGMPL/WI/27A

Sample	Condition:	Satisfactory			Packing:	Sealed	
						S	pecification
Sr.No	Paramete	ers	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3		137.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca		34.46	mg/L	APHA 23rd Edn 3500 Ca E	75	200
3	Chloride		55.48	mg/L	IS 3025- Part 32	250	1000
4	Colour		BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride		1.11	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg		16.52	mg/L	APHA 23rd Edn 3500 Mg I	B 30	100
7	Odour		Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C		7.35	NEWS FOR	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate		23.79	mg/L	APHA 23rd Edn 4500 SO4	E 200	400
10	Total Dissolved Solids	(TDS)	264.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solid	ds (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

Khullon. Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Water

Mine Borewell (GW)

Lab/PN/591D/79K/08

Laboratory Representative

Sample Quantity: Sample Condition: Satisfactory

3.5 L

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 4

GGMPL/WI/27A

29/05/2024

31/05/2024

01/06/2024

08/06/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	154.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL AS Per IS 10500.

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

Muller . Analyzed By Khushbu Suthar

* --- End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/591D/79K/01

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

Sampling Date:

29/05/2024

Sample Type:

Waste Water

Analysis Start Date:

31/05/2024 01/06/2024

Sample Description:

Pit No.-02 (WW)

Analysis End Date:

08/06/2024

Sample Quantity:

3 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58		IS 3025- Part 11	
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	- 14-
4	Chemical Oxygen Demand	90.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	25	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

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Analyzed By Khushbu Suthar AHMEDABA

--- End of Report ---

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Page No: 1/1

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/591D/79K/02

Sampling Date:

29/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

31/05/2024

Sample Type:

Waste Water

Analysis Start Date: Analysis End Date: 01/06/2024 08/06/2024

Sample Description:

Mine Discharge Water (WW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

3.5 L

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.32		IS 3025- Part 11	
2	Total Suspended Solids	20.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-120011
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	1-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	12	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

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Analyzed By Khushbu Suthar H AHMEDABAD PVT

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Lab/PN/591D/79K/03

Laboratory Representative Ambient Air

Bankuri Road

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

30/05/2024 31/05/2024

29/05/2024

01/06/2024-08/06/2024

Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.60	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.65	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	20.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	24.56	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/591D/79K/03 Laboratory Representative Ambient Air

Bankuri Road

Ambient Temperature

Satisfactory

Total Sampling hours:

Sampling Start Date:

Sampling End Date:

Sample Receipt Date:

Analysis start- End Date:

Env. Cond.-Testing:

31/05/2024 01/06/2024-08/06/2024

29/05/2024

30/05/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



01/06/2024-08/06/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/591D/79K/04

Ambient Air Beldongri Road

Laboratory Representative

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

29/05/2024

30/05/2024

31/05/2024

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.87	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.23	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.23	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.26	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/591D/79K/04

Laboratory Representative

Ambient Air Beldongri Road

Ambient Temperature Satisfactory

Sample Receipt Date: Analysis start- End Date:

Sampling Start Date:

Sampling End Date:

Total Sampling hours:

29/05/2024

30/05/2024 31/05/2024

01/06/2024-08/06/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/591D/79K/05

Laboratory Representative

Ambient Air Near Satak Road

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 30/05/2024 31/05/2024 01/06/2024-08/06/2024

29/05/2024

24

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.15	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	43.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	22.12	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.67	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.41	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

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M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/591D/79K/05 Laboratory Representative Ambient Air Near Satak Road Ambient Temperature Satisfactory Sampling Start Date:
Sampling End Date:
Sample Receipt Date:
Analysis start- End Date:
Total Sampling hours:
Env. Cond.-Testing:

Start Date: 29/05/2024 End Date: 30/05/2024 ceipt Date: 31/05/2024 eart- End Date: 01/06/2024-08/06/2024 oling hours: 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar AHMEDABAD

--- End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/591D/79K/06

Laboratory Representative

Ambient Air Near Pit No-02

Ambient Temperature Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing:

29/05/2024

30/05/2024 31/05/2024

01/06/2024-08/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.36	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	44.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	23.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.95	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.89	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/591D/79K/06

Laboratory Representative

Ambient Air Near Pit No-02

Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

29/05/2024 30/05/2024 31/05/2024 01/06/2024-08/06/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

End of Report ---

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

29/05/2024

Source Noise

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

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

Analyzed By Khushbu Suthar

- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 10/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/591D/79K/08

Sampling Date:

29/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

31/05/2024 01/06/2024

Sample Type: Sample Description: Water Mine Borewell (GW) Analysis Start Date: Analysis End Date:

08/06/2024

Sample Quantity:

3.5 L

Sampling Method:

GGMPL/WI/27A

Sample	e Condition: Satisfactory	4		Packing:	Sealed	
						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	137.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.46	mg/L	APHA 23rd Edn 3500 Ca	a B 75	200
3	Chloride	55.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.11	mg/L	APHA 23rd Edn 4500 F	D 1	1.5
6	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg	g B 30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeab	le Agreeable
8	pH at 25 °C	7.35		IS 3025- Part 11	6.5 to 8	.5 No relaxation
9	Sulphate	23.79	mg/L	APHA 23rd Edn 4500 SC	04 E 200	400
10	Total Dissolved Solids (TDS)	264.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL AS Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/591D/79K/08

Sampling Date:

29/05/2024

Sample Drawn By: Sample Type: Laboratory Representative Water Sample Receipt Date: Analysis Start Date: 31/05/2024 01/06/2024

Sample Description:

Water Mine Borewell (GW)

Analysis End Date:

08/06/2024

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing: 4

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	154.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL AS Per IS 10500.

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

Analyzed By
Khushbu Suthar

AHMEDABAD P

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 06/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/595D/79K/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

G.W Mine Borewell

Sample Quantity: Sample Condition: 500 ml Satisfactory Sampling Date:

29/05/2024

Sample Receipt Date:

31/05/2024

Analysis Start Date: Analysis End Date: 01/06/2024

Sampling Method:

06/06/2024 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

Pani

Analyzed By Nidhi Shah Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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