

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/579D/95T/01

Reporting Date : 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	31/05/2024
Sample Description:	Staff Colony Borewell Water (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	235.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	59.32	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	76.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.34	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.73	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32	-	IS 3025- Part 11	6.5-8.0	No Relaxation
9	Sulphate	26.52	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	382.00	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 CaCO ₃	258.00	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

AB Patel

Analyzed By
Aarmi Patel



[Signature]

Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/579D/95T/01

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)

Reporting Date : 06/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	31/05/2024
Sample Description:	Staff Colony Borewell Water (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.1	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	0.07	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.94	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

ABP
Analyzed By
Aarmi Patel



[Signature]
Authorized Signatory
Manish Kumawat

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/579D/95T/02

Reporting Date : 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/02	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Waste Water	Analysis Start Date:	31/05/2024
Sample Description:	ETP Inlet	Analysis End Date:	05/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.96	-	IS 3025- Part 11	-
2	Total Suspended Solids	42.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	210.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	65	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

AB Patel

Analyzed By
Aarmi Patel



--- End of Report ---

Manish Kumawat

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/579D/95T/03

Reporting Date : 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/03	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Waste Water	Analysis Start Date:	31/05/2024
Sample Description:	ETP Outlet	Analysis End Date:	05/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.36	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	36.00	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	50.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.5	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	15	mg/L	IS 3025- Part 44	30
7	Manganese	0.11	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CTO

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

AB Patel

Analyzed By
Aarmi Patel



--- End of Report ---

Manish Kumawat

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/579D/95T/04

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)

Reporting Date : 06/06/2024



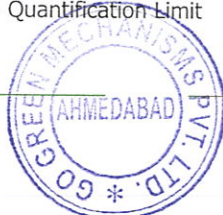
SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/04	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Waste Water	Analysis Start Date:	31/05/2024
Sample Description:	Mine Discharge Water	Analysis End Date:	05/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.53	-	IS 3025- Part 11	-
2	Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.1	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	13	mg/L	IS 3025- Part 44	-
7	Manganese	0.13	mg/L	GGMPL/SOP/W & WW/46	-

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Aarmi Patel



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Manish Kumawat

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M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)

Reporting Date : 06/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/05	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Waste Water	Analysis Start Date:	31/05/2024
Sample Description:	STP Inlet	Analysis End Date:	05/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.93	-	IS 3025- Part 11	-
2	Total Suspended Solids	141.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	130.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	40	mg/L	IS 3025- Part 44	-
7	Manganese	0.16	mg/L	GGMPL/SOP/W & WW/46	-

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


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Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/579D/95T/06

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)

Reporting Date : 06/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/06	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Waste Water	Analysis Start Date:	31/05/2024
Sample Description:	STP Outlet	Analysis End Date:	05/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	-	IS 3025- Part 11	-
2	Total Suspended Solids	30.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	40.0	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	13	mg/L	IS 3025- Part 44	-
7	Manganese	0.12	mg/L	GGMPL/SOP/W & WW/46	-

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Manish Kumawat

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Report Number : GGMPL/PN/579D/95T/07

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/07	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Mine pit	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.77	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.70	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.86	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)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Head Office & Lab

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Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



TC-7073

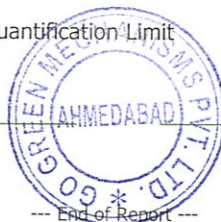
SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/07	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Mine pit	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	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

A. Patel
Analyzed By
Aarmi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/579D/95T/08

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



TC-7073

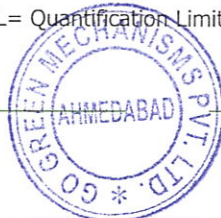
SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/08	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.03	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	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)	1.16	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
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/579D/95T/08

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/08	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	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
Aarmi Patel



--- End of Report ---

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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/579D/95T/09

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/09	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.59	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.79	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.67	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.17	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
Aarmi Patel



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/579D/95T/09

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)




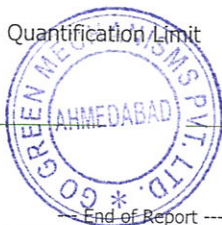
SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/09	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	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
Aarmi Patel




Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426
Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/579D/95T/10

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/10	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Staff colony	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.13	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.66	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.12	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.19	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

AB Patel

Analyzed By
Aarmi Patel



Manish Kumawat

Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/579D/95T/10

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



TC-7073

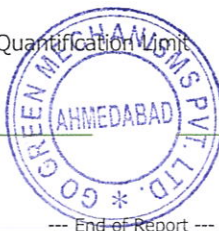
SAMPLE DETAILS

Lab ID:	Lab/PN/579D/95T/10	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Near Staff colony	Analysis start- End Date:	31/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	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
Aarmi Patel




Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/579D/95T/11

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



SAMPLE DETAILS

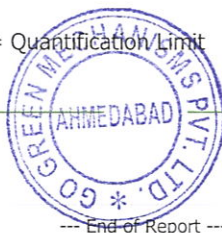
Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 28/05/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/579D/95 T/11A	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	58.9	-
2	Lab/PN/579D/95 T/11B	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	56.2	-
3	Lab/PN/579D/95 T/11C	Near Workshop	Day Time	dB(A)Leq	IS 4758	59.7	-
4	Lab/PN/579D/95 T/11D	Near Ventilation Fan	Day Time	dB(A)Leq	IS 4758	58.5	-

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


Analyzed By
Aarmi Patel



--- End of Report ---


Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/582D/95T/01

Reporting Date : 05/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/582D/95T/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	31/05/2024
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	05/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
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

Nidhi
Analyzed By
Nidhi Shah



--- End of Report ---

HS
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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Head Office & Lab

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Mobile No : +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/578D/95C/01

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 06/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/578D/95C/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	G.W of Railway Siding Borewell	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	195.00	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	70.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	40.09	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 to 8.5	No Relaxation
9	Sulphate	68.15	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	420.00	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 CaCO ₃	300.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/578D/95C/01

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 06/06/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/578D/95C/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	G.W of Railway Siding Borewell	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	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	5.68	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation


AL & PL As Per IS 10500

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Analyzed By
Priyanka Shrimali



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Manish Kumawat

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/578D/95C/02

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 06/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/578D/95C/02	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	G.W of Near Old Colony Borewell	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	190.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	60.12	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	71.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.70	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	48.60	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.24	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	60.25	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	430.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	350.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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Priyanka Shrimali




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/578D/95C/02

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 06/06/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/578D/95C/02	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	G.W of Near Old Colony Borewell	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	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	6.29	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/578D/95C/03

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)




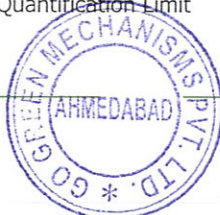
SAMPLE DETAILS

Lab ID:	Lab/PN/578D/95C/03	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	In front Of Weight Bridge	Analysis start- End Date:	30/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	30.84	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.17	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)	1.09	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
Priyanka Shrimali




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/578D/95C/03

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)




TC-7073

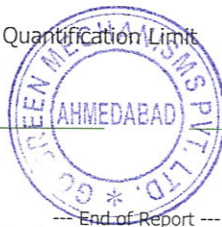
SAMPLE DETAILS

Lab ID:	Lab/PN/578D/95C/03	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	In front Of Weight Bridge	Analysis start- End Date:	30/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	38	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	44	%	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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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Analyzed By
Priyanka Shrimali




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/578D/95C/04

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)




SAMPLE DETAILS

Lab ID:	Lab/PN/578D/95C/04	Sampling Start Date:	28/04/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	End Point Of Railway Siding	Analysis start- End Date:	30/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.23	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	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)	1.09	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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/578D/95C/04

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)




SAMPLE DETAILS

Lab ID:	Lab/PN/578D/95C/04	Sampling Start Date:	28/04/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	End Point Of Railway Siding	Analysis start- End Date:	30/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/578D/95C/05

Reporting Date: 06/06/2024

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 28/05/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/578D/95C/05A	In Front Of Weight Bridge	Day Time	dB(A)Leq	IS 4758	56.4	-
2	Lab/PN/578D/95C/05B	Near Railway Siding	Day Time	dB(A)Leq	IS 4758	57.6	-

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

Analyzed By
Priyanka Shrimali



Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/581D/95C/01

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 05/06/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/581D/95C/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Ground Water	Analysis Start Date:	31/05/2024
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

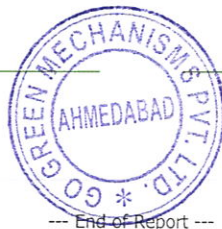
Specification:

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




Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/581D/95C/02

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 05/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/581D/95C/02	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Ground Water	Analysis Start Date:	31/05/2024
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
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

Nidhi
Analyzed By
Nidhi Shah



--- End of Report ---

Hg
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/580D/94R/01

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 08/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	Pench River Bank (SW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

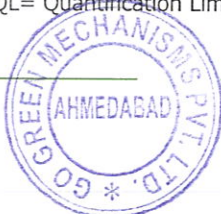
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	182.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	58.51	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	58.98	mg/L	IS 3025- Part 32	2500	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.48	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.35	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	32.76	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	324.00	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 CaCO ₃	214.00	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
Khushbu Suthar



Authorized Signatory
Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN/580D/94R/01

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 08/06/2024



SAMPLE DETAILS

Lab ID: Lab/PN/580D/94R/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pench River Bank (SW)
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 28/05/2024
Sample Receipt Date: 30/05/2024
Analysis Start Date: 30/05/2024
Analysis End Date: 07/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

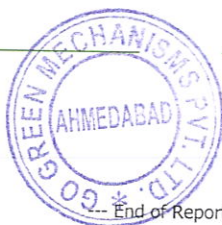
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.55	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	4.95	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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/580D/94R/02

Reporting Date : 08/06/2024

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/02	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Ground Water	Analysis Start Date:	30/05/2024
Sample Description:	Kalaphata Village (GW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	196.00	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	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.89	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.65	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	28.66	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	330.00	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 CaCO ₃	204.00	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
Khushbu Suthar



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/580D/94R/02

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 08/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/02	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Ground Water	Analysis Start Date:	30/05/2024
Sample Description:	Kalaphata Village (GW)	Analysis End Date:	07/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.75	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	4.84	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



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/580D/94R/03

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date: 08/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/03	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Pench River Bank	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	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)	23.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.00	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)	1.11	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
Khushbu Suthar



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/580D/94R/03

Reporting Date: 08/06/2024

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



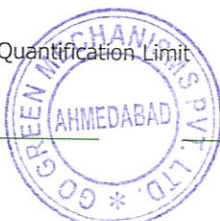
SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/03	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Pench River Bank	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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/580D/94R/04

Reporting Date: 08/06/2024

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/04	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	500m from Riverbank	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.85	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.56	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	22.04	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.52	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Report Number : GGMPL/PN/580D/94R/04

Reporting Date: 08/06/2024

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/04	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	500m from Riverbank	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Reporting Date: 08/06/2024

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

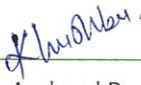


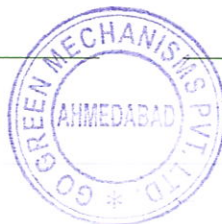
SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/05	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Mahuli Village	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.10	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)	12.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.43	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.46	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Report Number : GGMPL/PN/580D/94R/05

Reporting Date: 08/06/2024

M/s Moil Limited

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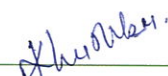


SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/05	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Mahuli Village	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/580D/94R/06

Reporting Date: 08/06/2024

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



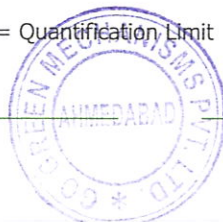
SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/06	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Kalaphata Village	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.48	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	22.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.09	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)	1.14	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

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Report Number : GGMPL/PN/580D/94R/06

Reporting Date: 08/06/2024

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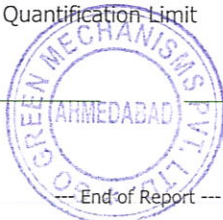
SAMPLE DETAILS

Lab ID:	Lab/PN/580D/94R/06	Sampling Start Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/05/2024
Sample Description:	Kalaphata Village	Analysis start- End Date:	30/05/2024-07/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Khushbu Suthar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/580D/94R/07

Reporting Date: 08/06/2024

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 28/05/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/580D/94 R/07A	Near Pench river Bank	Day Time	dB(A)Leq	IS 4758	57.9	-
2	Lab/PN/580D/94 R/07B	500m from river Bank	Day Time	dB(A)Leq	IS 4758	58.2	-
3	Lab/PN/580D/94 R/07C	Mahuli Village	Day Time	dB(A)Leq	IS 4758	57.8	-
4	Lab/PN/580D/94 R/07D	Kalaphata Village	Day Time	dB(A)Leq	IS 4758	56.9	-

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

Analyzed By
Khushbu Suthar



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/583D/94R/01

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 05/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/583D/94R/01	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Ground Water	Analysis Start Date:	31/05/2024
Sample Description:	Pench River Bank (SW)	Analysis End Date:	05/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
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

Nidhi
Analyzed By
Nidhi Shah



--- End of Report ---

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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/583D/94R/02

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 05/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/583D/94R/02	Sampling Date:	28/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/05/2024
Sample Type:	Ground Water	Analysis Start Date:	31/05/2024
Sample Description:	G.W Kalapheta Village	Analysis End Date:	05/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

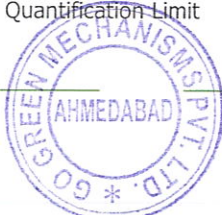
Specification:

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

Nidhi
Analyzed By
Nidhi Shah



--- End of Report ---

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Authorized Signatory
Dr. Haragobinda Srichandan

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