

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1143C/95/T/V2/01

Reporting Date : 16/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

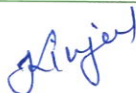
Lab ID:	Lab/PN/1143C/95/T/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.54	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	192.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	58.51	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	61.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL-1)	CU	IS 3025 Part-4	5	5
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	25.51	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.73	mg/L	APHA 23rd Edn 4500 SO ₄ E	2	400
10	Total Dissolved Solids	354.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	254.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500

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



Analyzed By
Kinjal Damor




Authorized Signatory
Manish Kumawat

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(M.S)



SAMPLE DETAILS


Lab ID:	Lab/PN/1143C/95/T/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.25	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.76	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/1143C/95/T/V2/01A

Reporting Date : 16/09/2023

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/1143C/95/T/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	05/09/2023
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1143C/95/T/V2/02

Reporting Date : 16/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

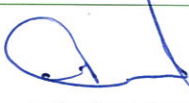
Lab ID:	Lab/PN/1143C/95/T/V2/02	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	ETP Inlet (WW)	Analysis End Date:	15/09/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	8.49	-	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	260.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	47	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1143C/95/T/V2/03

Reporting Date : 16/09/2023

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/1143C/95/T/V2/03	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	ETP Outlet (WW)	Analysis End Date:	15/09/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.54	-	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	60.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.90	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	19	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1143C/95/T/V2/04

Reporting Date : 16/09/2023

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/1143C/95/T/V2/04	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	STP Inlet (WW)	Analysis End Date:	15/09/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.35	-	IS 3025- Part 11	-
2	Total Suspended Solids	124.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	2.50	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	100.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.1000	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	30	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

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Kinjal Damor



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(M.S)



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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	15/09/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.50	-	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	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	26.0	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	15/09/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.50	-	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	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	26.0	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

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(M.S)



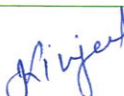
TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1143C/95/T/V2/06	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Waste Water	Analysis Start Date:	05/09/2023
Sample Description:	Mine Discharge water (WW)	Analysis End Date:	15/09/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	-	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	3.90	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	22	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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


Analyzed By
Kinjal Damor




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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1143C/95/T/V2/07

Reporting Date: 16/09/2023

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/1143C/95/T/V2/07	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Near Mine pit	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.97	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)	10.04	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.14	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.79	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.14	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

Kinjal
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Reporting Date: 16/09/2023

M/s Moil Limited

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

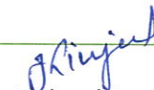


SAMPLE DETAILS

Lab ID:	Lab/PN/1143C/95/T/V2/07	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Near Mine pit	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Kinjal Damor




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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1143C/95/T/V2/08

Reporting Date: 16/09/2023

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/1143C/95/T/V2/08	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	NEAR HOSPITAL	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.69	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m ³	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	12.40	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	16.86	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	13.17	µg/m ³	IS 5182- Part 9	100
6	Ammonia (NH ₃)	8.69	µg/Nm ³	GGMP/L/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMP/L/SOP/MP/01	NS

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

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CERTIFICATE OF ANALYSIS

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Reporting Date: 16/09/2023

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/1143C/95/T/V2/08	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	NEAR HOSPITAL	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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Reporting Date: 16/09/2023

M/s Moil Limited

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



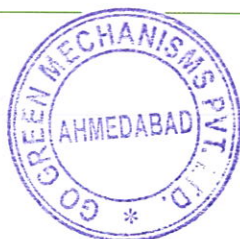
SAMPLE DETAILS

Lab ID:	Lab/PN/1143C/95/T/V2/09	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	NEAR HAUL ROAD	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.77	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)	12.12	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.79	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.17	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.04	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

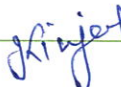


SAMPLE DETAILS

Lab ID:	Lab/PN/1143C/95/T/V2/09	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	NEAR HAUL ROAD	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 16/09/2023

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/1143C/95/T/V2/10	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Near Staff colony	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.06	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)	14.85	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.17	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.59	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	7.57	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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Reporting Date: 16/09/2023

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/1143C/95/T/V2/10	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Near Staff colony	Analysis start- End Date:	05/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	0.00106	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1143C/95/T/V2/11

Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 02/09/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1143C/95/T/V2/11A	Compressor Room	Day Time	dB(A)Leq	IS 4758	66.2	75
2	Lab/PN/1143C/95/T/V2/11B	Nr Mine Pit	Day Time	dB(A)Leq	IS 4758	69.5	75
3	Lab/PN/1143C/95/T/V2/11C	Nr Workshop	Day Time	dB(A)Leq	IS 4758	70.5	75
4	Lab/PN/1143C/95/T/V2/11D	Nr Ventilation	Day Time	dB(A)Leq	IS 4758	65.8	75

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1142C/95S/V2/01

Reporting Date : 14/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1142C/95S/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	13/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.06	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	173.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	58.52	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	39.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.43	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	30.74	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	420.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	246.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

AB Patel

Analyzed By
Aarmi Patel



Manish Kumawat

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1142C/95S/V2/01

Reporting Date : 14/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1142C/95S/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	13/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	0.07	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.69	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

AB Patel

Analyzed By
Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1142C/95S/V2/01A

Reporting Date : 14/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1142C/95S/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	13/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

Aarmi Patel

Analyzed By
Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1142C/95S/V2/02

Reporting Date : 14/09/2023

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/1142C/95S/V2/02	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	13/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	131.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	43.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	33.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	23.33	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	20.96	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	432.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	205.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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

Aarmi Patel

Analyzed By
Aarmi Patel



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Report Number: GGMPL/PN/1142C/95S/V2/02

Reporting Date : 14/09/2023

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/1142C/95S/V2/02	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	13/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	0.07	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.94	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

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

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Aarmi Patel



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Report Number: GGMPL/PN/1142C/95S/V2/02A

Reporting Date : 14/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1142C/95S/V2/02	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	13/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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

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Report Number : GGMPL/PN/1142C/95S/V2/03

Reporting Date: 14/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1142C/95S/V2/03	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	In front of Weigh Bridge	Analysis start- End Date:	06/09/2023-13/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.37	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.98	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.25	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1142C/95S/V2/03

Reporting Date: 14/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1142C/95S/V2/03	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	In front of Weigh Bridge	Analysis start- End Date:	06/09/2023-13/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Aarmi 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/1142C/95S/V2/04

Reporting Date: 14/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1142C/95S/V2/04	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	06/09/2023-13/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.71	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.71	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.04	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.38	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1142C/95S/V2/04

Reporting Date: 14/09/2023

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/1142C/95S/V2/04	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	06/09/2023-13/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Aarmi Patel

Analyzed By
Aarmi Patel



Manish Kumawat

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Manish Kumawat

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1142C/95S/V2/05

Reporting Date: 14/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

02/09/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1142C/95S/V2/05 A	In front of Weigh Bridge	Day Time	dB(A)Leq	IS 4758	60.3	75
2	Lab/PN/1142C/95S/V2/05 B	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	59.3	75

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

A B Patel

Analyzed By
Aarmi Patel



Manish Kumawat

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1141C/94R/V2/01

Reporting Date : 16/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Kalaphata Village (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	6.93	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	204.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	52.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	41.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.47	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	30.62	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	21.96	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	532.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	258.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL AS Per IS 10500

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

P. Parekh

Analyzed By
Pooja Parekh



Manish Kumawat

Authorized Signatory
Manish Kumawat

Page No : 1/2

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Reporting Date : 16/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/01	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Kalaphata Village (GW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.98	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.44	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

P. Parekh

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Report Number: GGMPL/PN/1141C/94R/V2/01A

Reporting Date : 16/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/1141C/94R/V2/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Kalaphata Village (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 02/09/2023
Sample Receipt Date: 05/09/2023
Analysis Start Date: 06/09/2023
Analysis End Date: 15/09/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

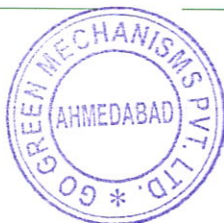
Specification:

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

AL & PL AS Per IS 10500

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


Analyzed By
Pooja Parekh




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Manish Kumawat

Page No : 1/1

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Report Number: GGMP/L/PN/1141C/94R/V2/02

Reporting Date : 16/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/02	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Pench Riverbank (SW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	8.05	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	112.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	30.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.33	mg/L	APHA 23rd Edn 4500 F D	1	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	20.16	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	190.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Pooja Parekh

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1141C/94R/V2/02

Reporting Date : 16/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/02	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Pench Riverbank (SW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.01	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

P. Parekh

Analyzed By
Pooja Parekh



Manish Kumawat

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1141C/94R/V2/02A

Reporting Date : 16/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/02	Sampling Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	05/09/2023
Sample Type:	Water	Analysis Start Date:	06/09/2023
Sample Description:	Pench Riverbank (SW)	Analysis End Date:	15/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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


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Report Number : GGMPL/PN/1141C/94R/V2/03

Reporting Date: 16/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/03	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Pench Riverbank	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.33	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.98	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.70	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS

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

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Report Number : GGMPL/PN/1141C/94R/V2/03

Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/03	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Pench Riverbank	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Pooja Parekh

Analyzed By
Pooja Parekh

Manish Kumawat

Authorized Signatory
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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1141C/94R/V2/04

Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/04	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	500m from Riverbank	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.58	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)	13.13	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.45	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.11	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.04	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

P. Parekh

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Pooja Parekh

Manish Kumawat

Authorized Signatory
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Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/04	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	500m from Riverbank	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/05	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Kalaphata Village	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.85	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.08	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.60	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.77	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.59	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/05	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Kalaphata Village	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1141C/94R/V2/06

Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/06	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Mahuli Village	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.41	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.15	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Pooja Parekh

Analyzed By
Pooja Parekh



Manish Kumawat

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1141C/94R/V2/06

Reporting Date: 16/09/2023

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1141C/94R/V2/06	Sampling Start Date:	02/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	03/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	05/09/2023
Sample Description:	Mahuli Village	Analysis start- End Date:	06/09/2023-15/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Pooja Parekh




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1141C/94R/V2/07

Reporting Date: 16/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

02/09/2023

Sample By Laboratory representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1141C/94R/V2/07A	Pench Riverbank	Day Time	dB(A)Leq	IS 4758	57.3	75
2	Lab/PN/1141C/94R/V2/07B	500 m From River Bank	Day Time	dB(A)Leq	IS 4758	58.9	75
3	Lab/PN/1141C/94R/V2/07C	Kalaphata Village	Day Time	dB(A)Leq	IS 4758	54.9	75
4	Lab/PN/1141C/94R/V2/07D	Mahuli Village	Day Time	dB(A)Leq	IS 4758	55.3	75

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

Pooja Parekh

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