

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/01

Reporting Date : 14/12/2023

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/1706C/95T/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	13/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	195.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	61.72	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	64.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.51	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	24.78	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	36.78	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	330.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	256.00	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

Khushbu
Analyzed By
Khushbu Suthar



P.D. Patel
Authorized Signatory
Payal Patel

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Report Number: GGMPL/PN/1706C/95T/V3/01

M/s Moil Limited

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

Reporting Date : 14/12/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/1706C/95T/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	13/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.75	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	5.19	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/01A

Reporting Date : 14/12/2023

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/1706C/95T/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	13/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/02

Reporting Date : 14/12/2023

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/1706C/95T/V3/02	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	ETP Inlet (WW)	Analysis End Date:	13/12/2023
Sample Quantity:	1.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.36	-	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	270.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	70	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.580	mg/L	APHA 23rd Edn 3120 B	-

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

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/03

M/s Moil Limited

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

Reporting Date : 14/12/2023



SAMPLE DETAILS

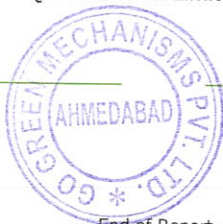
Lab ID:	Lab/PN/1706C/95T/V3/03	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	ETP Outlet (WW)	Analysis End Date:	13/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.69	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	30.00	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	4.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	15	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/04

Reporting Date : 14/12/2023

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/1706C/95T/V3/04	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	STP Inlet (WW)	Analysis End Date:	13/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.94	-	IS 3025- Part 11	-
2	Total Suspended Solids	121.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	3.00	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	140.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	33	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.11	mg/L	APHA 23rd Edn 3120 B	-

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(M.S)

Reporting Date : 14/12/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/1706C/95T/V3/05	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	13/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.1	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	11	mg/L	IS 3025- Part 44	20
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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

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(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1706C/95T/V3/05	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	13/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.1	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	11	mg/L	IS 3025- Part 44	20
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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

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Reporting Date : 14/12/2023

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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/1706C/95T/V3/06	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Waste Water	Analysis Start Date:	04/12/2023
Sample Description:	Mine Discharge water (WW)	Analysis End Date:	13/12/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	25.00	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	4.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	17	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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

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Khushbu Suthar



--- End of Report ---

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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/07

Reporting Date: 14/12/2023

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/1706C/95T/V3/07	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Near Mine pit	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.57	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)	12.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.25	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.10	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	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

Khushbu
Analyzed By
Khushbu Suthar



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Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/07

Reporting Date: 14/12/2023

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/1706C/95T/V3/07	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Near Mine pit	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Khushbu
Analyzed By
Khushbu Suthar



P.B. Patel
Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/08

Reporting Date: 14/12/2023

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/1706C/95T/V3/08	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	NEAR HOSPITAL	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.86	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)	14.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.10	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	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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Analyzed By
Khushbu Suthar



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/08

Reporting Date: 14/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

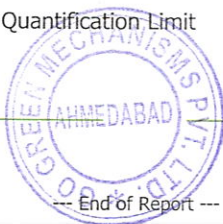
Lab ID:	Lab/PN/1706C/95T/V3/08	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	NEAR HOSPITAL	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Khushbu

Analyzed By
Khushbu Suthar



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/09

Reporting Date: 14/12/2023

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/1706C/95T/V3/09	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	NEAR HAUL ROAD	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.97	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.10	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.27	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

Khushbu

Analyzed By
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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/09

Reporting Date: 14/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

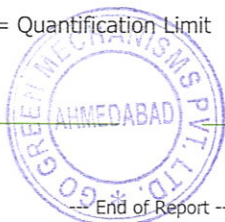
Lab ID:	Lab/PN/1706C/95T/V3/09	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	NEAR HAUL ROAD	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

[Signature]

Analyzed By
Khushbu Suthar



--- End of Report ---

[Signature]

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/10

Reporting Date: 14/12/2023

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/1706C/95T/V3/10	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Near Staff colony	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.32	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.00	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.10	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Khushbu

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/10

Reporting Date: 14/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

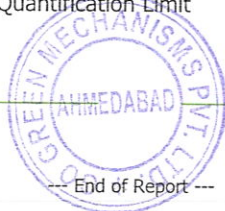
Lab ID:	Lab/PN/1706C/95T/V3/10	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Near Staff colony	Analysis start- End Date:	04/12/2023-13/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Khushbu Suthar

Analyzed By
Khushbu Suthar



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/11

Reporting Date: 14/12/2023

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

Sampling Date:

29/11/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1706C/9 5T/V3/11A	Nr.Compressor Room	Day Time	dB(A)Leq	IS 4758	66.8	-
2	Lab/PN/1706C/9 5T/V3/11B	Nr Mine Pit	Day Time	dB(A)Leq	IS 4758	63.9	-
3	Lab/PN/1706C/9 5T/V3/11C	Nr Workshop	Day Time	dB(A)Leq	IS 4758	65.2	-
4	Lab/PN/1706C/9 5T/V3/11D	Nr Ventilation Fan	Day Time	dB(A)Leq	IS 4758	68.2	-

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

Khushbu
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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/01

Reporting Date : 13/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1705C/95C/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C.	7.36	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	181.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	62.12	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	43.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	26.73	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	34.56	mg/l	APHA 23rd Edn 4500 SO ₄ E	200	100
10	Total Dissolved Solids	490.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	265.0	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	11.0	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

Priyanka
Analyzed By
Priyanka Shrimali



P.B. Patel
Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/01

Reporting Date : 13/12/2023

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1705C/95C/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

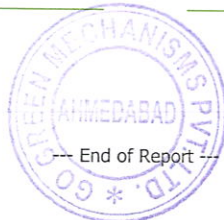
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.39	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/01A

Reporting Date : 13/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1705C/95C/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

Priyanka
Analyzed By
Priyanka Shrimali



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/02

Reporting Date : 13/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1705C/95C/V3/02	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.6	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	125.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	29.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.23	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	22.59	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	17.03	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	360.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	192.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.0	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

Priyanka
Analyzed By
Priyanka Shrimali



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Report Number: GGMPL/PN/1705C/95C/V3/02

Reporting Date : 13/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1705C/95C/V3/02	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	No Relaxation
16	Nitrate	1.89	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


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Priyanka Shirmali




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Payal Patel

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Report Number: GGMPL/PN/1705C/95C/V3/02A

Reporting Date : 13/12/2023

M/s Moil Limited

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

SAMPLE DETAILS


Lab ID:	Lab/PN/1705C/95C/V3/02	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	12/12/2023
Sample Quantity:	5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	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/1705C/95C/V3/03

Reporting Date: 13/12/2023

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1705C/95C/V3/03	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	In front of Weigh Bridge	Analysis start- End Date:	04/12/2023-12/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.41	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.53	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.04	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Priyanka Shrimali




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1705C/95C/V3/03

Reporting Date: 13/12/2023

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/1705C/95C/V3/03	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	In front of Weigh Bridge	Analysis start- End Date:	04/12/2023-12/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1705C/95C/V3/04

Reporting Date: 13/12/2023

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/1705C/95C/V3/04	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	04/12/2023-12/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.16	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.35	µg/m3	IS 5182- Part 9	100
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)	1.08	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

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

Priyanka

Analyzed By
Priyanka Shrimali



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1705C/95C/V3/04

Reporting Date: 13/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

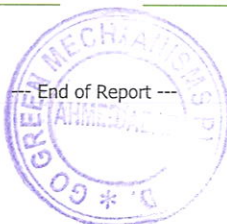
Lab ID:	Lab/PN/1705C/95C/V3/04	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	04/12/2023-12/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali


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Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/05

Reporting Date: 13/12/2023

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

Sampling Date:

29/11/2023


Sample By Laboratory Representative

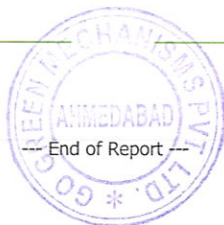
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1705C/95C/V3/05A	In Front Of Weigh Bridge	Day Time	dB(A)Leq	IS 4758	62.3	-
2	Lab/PN/1705C/95C/V3/05B	Near Railway Siding	Day Time	dB(A)Leq	IS 4758	61.8	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/01

Reporting Date : 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	G.W (Kalapheta Village) Borewell Water	Analysis End Date:	14/12/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Parking:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.35	-	IS 3025-Part 11	6.5 TO 8.5	No Relaxtion
2	Alkalinity as CaCO ₃	192.00	mg/l	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	50.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.47	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	25.76	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	21.04	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	339.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	232.00	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

Kinjal
Analyzed By
Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/01

M/s Moil Limited

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

Reporting Date : 15/12/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	G.W (Kalapheta Village) Borewell Water	Analysis End Date:	14/12/2023
Sample Quantity:	5.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

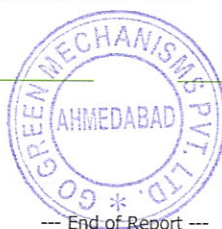
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.90	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	4.90	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
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/01A

Reporting Date : 15/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/01	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	G.W (Kalapheta Village) Borewell Water	Analysis End Date:	14/12/2023
Sample Quantity:	5.5 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
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	-	Absent

AL & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/02

Reporting Date : 15/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/02	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Pench River Bank (SW)	Analysis End Date:	14/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

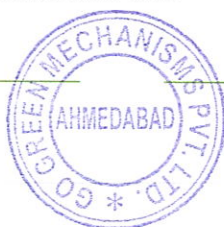
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.56	-	IS 3025-Part 11	6.5 TO 8.5	No Relaxtion
2	Alkalinity as CaCO ₃	199.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	42.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	47.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.51	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	39.85	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.34	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	283.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	242.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/02

Reporting Date : 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/02	Sampling Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/12/2023
Sample Type:	Water	Analysis Start Date:	04/12/2023
Sample Description:	Pench River Bank (SW)	Analysis End Date:	14/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	4.80	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	5.41	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

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Payal Patel

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Report Number: GGMPL/PN/1704C/94R/V3/02A

Reporting Date : 15/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/1704C/94R/V3/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pench River Bank (SW)
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 29/11/2023
Sample Receipt Date: 02/12/2023
Analysis Start Date: 04/12/2023
Analysis End Date: 14/12/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

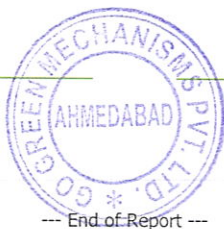
Specification:

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

AL & PL As Per IS 10500

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

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Report Number : GGMPL/PN/1704C/94R/V3/03

Reporting Date: 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/03	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Pench Riverbank	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.10	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)	12.00	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.76	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.56	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.11	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	0.68	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.32	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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Reporting Date: 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/03	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Pench Riverbank	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/04

Reporting Date: 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/04	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	500m from Riverbank	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.15	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)	11.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.11	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/04	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	500m from Riverbank	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/05	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Kalaphata Village	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.06	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.83	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.25	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=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	1.31	ng/m3	USEPA Method IO 3.4	6

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

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Reporting Date: 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/05	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Kalaphata Village	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/06

Reporting Date: 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/06	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2023
Sample Description:	Mahuli Village	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.30	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.84	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Kinjal Damor



Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/06

Reporting Date: 15/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1704C/94R/V3/06	Sampling Start Date:	29/11/2023
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Sample Description:	Mahuli Village	Analysis start- End Date:	04/12/2023-14/12/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/07

Reporting Date: 16/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

29/11/2023

Sample By Laboratory Representative

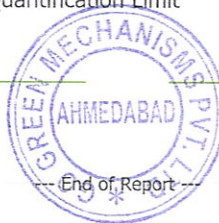
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1704C/9 4R/V3/07A	Pench river bank	Day Time	dB(A)Leq	IS 4758	59.3	-
2	Lab/PN/1704C/9 4R/V3/07B	500 m from river	Day Time	dB(A)Leq	IS 4758	56.9	-
3	Lab/PN/1704C/9 4R/V3/07C	Kalaphata village	Day Time	dB(A)Leq	IS 4758	52.3	-
4	Lab/PN/1704C/9 4R/V3/07D	Mahuli Village	Day Time	dB(A)Leq	IS 4758	54.6	-

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