

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

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:

Analysis Start Date:

05/09/2023

Sample Description:

Staff colony Borewell water GW

Satisfactory

Analysis End Date:

15/09/2023

Sample Quantity: Sample Condition: 4.5 L

Sampling Method:

GGMPL/WI/27A

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 CaCO3	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	Agreeab	le Agreeable
9	Sulphate	33.73	mg/L	APHA 23rd Edn 4500 SO4 E	2	400
10	Total Dissolved Solids	354.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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 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

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Staff colony Borewell water GW

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

02/09/2023

05/09/2023 05/09/2023

15/09/2023 GGMPL/WI/27A

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

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/V2/01A

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

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Staff colony Borewell water GW

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

02/09/2023

05/09/2023 05/09/2023

15/09/2023

GGMPL/WI/27A Sealed

Specification:

Reporting Date: 16/09/2023

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

Kinjal Damor



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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

Sample Drawn By:

Laboratory Representative

Waste Water

Sample Type: Sample Description:

ETP Inlet (WW)

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

02/09/2023

Sample Receipt Date: Analysis Start Date:

05/09/2023 05/09/2023

Analysis End Date: Sampling Method:

15/09/2023 GGMPL/WI/27A

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	2
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o 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





Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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/V2/03

02/09/2023

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

05/09/2023 05/09/2023

Sample Description:

ETP Outlet (WW)

Analysis Start Date: Analysis End Date: 15/09/2023 GGMPL/WI/27A

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

Sampling Date:

Sample Receipt Date:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
11	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 o 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

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

Kinjal Damor

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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/V2/04

02/09/2023

Sample Drawn By:

Laboratory Representative

05/09/2023

Sample Type: Sample Description:

Sample Condition:

Waste Water STP Inlet (WW) 05/09/2023

Sample Quantity:

3.5 L Satisfactory Analysis End Date: Sampling Method:

Analysis Start Date:

Sample Receipt Date:

Sampling Date:

15/09/2023 GGMPL/WI/27A

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	4
5	Dissolved Oxygen	4.1000	mg/L	IS 3025- Part 38	-1
6	BOD at 27 o 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

Analyzed By Kinjal Damor AHMEDABAD VI

Authorized Signatory Manish Kumawat

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M/s Moil Limited

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

(M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/1143C/95/T/V2/05

Sample Drawn By:

Laboratory Representative

Waste Water

Sample Type: Sample Description:

STP Outlet (WW)

Sample Quantity: Sample Condition: 3.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

02/09/2023

05/09/2023 05/09/2023

15/09/2023 GGMPL/WI/27A

Packing:

Can	1~4
Sed	lea -
ocu	ICU

r.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 o 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

Kinjal Damor

Authorized Signatory Manish Kumawat

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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/V2/05

Sample Drawn By: Sample Type:

Laboratory Representative Waste Water

Satisfactory

Sample Description:

STP Outlet (WW)

Sample Quantity:

3.5 L

Sample Condition:

Sampling Date:

02/09/2023

Sample Receipt Date:

05/09/2023

Analysis Start Date:

05/09/2023

Analysis End Date: Sampling Method:

15/09/2023 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
11	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 o 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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1143C/95/T/V2/06

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/V2/06

Laboratory Representative

Waste Water

Sample Type: Sample Description:

Sample Drawn By:

Mine Discharge water (WW)

3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

02/09/2023

05/09/2023 05/09/2023

15/09/2023 GGMPL/WI/27A

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	: <del>-</del>
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 o C for 3 days	22	mg/L	IS 3025- Part 44	4
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

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1143C/95/T/V2/07

Laboratory Representative

Ambient Air Near Mine pit

Ambient Temperature Laboratory Representative Sampling Start Date:

Sampling End Date: Sample Receipt Date:

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

02/09/2023

03/09/2023 05/09/2023

05/09/2023-15/09/2023

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

2	raiticulate matter (1712.5)	32.73	μ9/1113	August 01	00
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 Damor

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1143C/95/T/V2/07

Laboratory Representative

Ambient Air

Ambient Temperature

Near Mine pit

Laboratory Representative

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

02/09/2023

03/09/2023 05/09/2023

05/09/2023-15/09/2023

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

Analyzed By Kinjal Damor AHMEDABAD

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1143C/95/T/V2/08

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1143C/95/T/V2/08

Laboratory Representative Ambient Air

NEAR HOSPITAL Ambient Temperature

Laboratory Representative

Sampling Start Date:

Sampling End Date: 03/09/2023 Sample Receipt Date: 05/09/2023 Analysis start- End Date: 05/09/2023

Total Sampling hours: Env. Cond.-Testing: 05/09/2023 05/09/2023-15/09/2023

02/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.69	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.40	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.86	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.17	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.69	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Kinjal Damor AHMEDABAD V.

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1143C/95/T/V2/08

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1143C/95/T/V2/08

Laboratory Representative

Ambient Air

NEAR HOSPITAL

Ambient Temperature

Laboratory Representative

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

_			
2	5+	-59	2

02/09/2023

03/09/2023

05/09/2023

05/09/2023-15/09/2023

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

Analyzed By Kinjal Damor AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1143C/95/T/V2/09

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1143C/95/T/V2/09

Laboratory Representative

Ambient Air

NEAR HAUL ROAD Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 02/09/2023

03/09/2023 05/09/2023

05/09/2023-15/09/2023

24

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

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

Analyzed By Kinjal Damor AHMEDABAD W

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1143C/95/T/V2/09

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1143C/95/T/V2/09

Laboratory Representative

Ambient Air NEAR HAUL ROAD

Ambient Temperature Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 02/09/2023 03/09/2023 05/09/2023

05/09/2023-15/09/2023

24 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

Analyzed By Kinjal Damor AHMEDABAD PV

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1143C/95/T/V2/10

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1143C/95/T/V2/10

Laboratory Representative Ambient Air

Near Staff colony Ambient Temperature

Satisfactory

02/09/2023 Sampling Start Date:

Sampling End Date: 03/09/2023 Sample Receipt Date:

Analysis start- End Date:

05/09/2023 05/09/2023-15/09/2023

Total Sampling hours:	24
Env. CondTesting:	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

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

Analyzed By Kinial Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1143C/95/T/V2/10

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023



TC-7073

### SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1143C/95/T/V2/10 Laboratory Representative

Ambient Air Near Staff colony Ambient Temperature

Satisfactory

Sampling Start Date: 02/09/2023 Sampling End Date: 03/09/2023 Sample Receipt Date: 05/09/2023

Analysis start- End Date: 0
Total Sampling hours: 2
Env. Cond.-Testing: 2

05/09/2023-15/09/2023 24

25±5°C

ve Humidity	60	%	COLUDI ICOD IMPION	
	00	90	GGMPL/SOP/MP/01	NS
	0.00106	μg/m3	USEPA Method IO 3.4	1
Speed	2.3	m/s	GGMPL/SOP/MP/01:2020	NS
	Speed			

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

M/s Moil Limited

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

(M.S)

Reporting Date: 16/09/2023

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/9 5/T/V2/11A	Compressor Room	Day Time	dB(A)Leq	IS 4758	66.2	75
2	Lab/PN/1143C/9 5/T/V2/11B	Nr Mine Pit	Day Time	dB(A)Leq	IS 4758	69.5	75
3	Lab/PN/1143C/9 5/T/V2/11C	Nr Workshop	Day Time	dB(A)Leq	IS 4758	70.5	75
4	Lab/PN/1143C/9 5/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

Kinjal Damor



**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1142C/95S/V2/01

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Railway Siding (Borewell Water) (GW)

Sample Quantity:

6L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 02/09/2023

05/09/2023 06/09/2023

13/09/2023 GGMPL/WI/27A

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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	420.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

ABPUTZ

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

अवस्थापन प्रसास

Reporting Date: 14/09/2023

TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1142C/95S/V2/01

Sampling Date:

02/09/2023 05/09/2023

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date: Analysis Start Date:

06/09/2023 13/09/2023

Sample Description:

Railway Siding (Borewell Water) (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron 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

rispect

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1142C/95S/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type: Water

Railway Siding (Borewell Water) (GW)

Sample Description: Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

02/09/2023

05/09/2023

06/09/2023

13/09/2023

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 Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

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

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Near Old colony Borewell Water (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 02/09/2023

05/09/2023

06/09/2023 13/09/2023

GGMPL/WI/27A

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 CaCO3	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	-117	IS 3025 Part-5	Agreeable	. Agreeable
9	Sulphate	20.96	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	432.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

ABRUTS

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1142C/95S/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Near Old colony Borewell Water (GW)

Sample Quantity:

Sample Condition:

6L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

02/09/2023

05/09/2023 06/09/2023

13/09/2023

GGMPL/WI/27A 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

ABPUTS

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023

# SAMPLE DETAILS

Lab ID:

Lab/PN/1142C/95S/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Near Old colony Borewell Water (GW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

02/09/2023 05/09/2023 06/09/2023

Analysis Start Date: Analysis End Date:

13/09/2023

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

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1142C/95S/V2/03 Laboratory Representative

Ambient Air

In front of Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

02/09/2023 03/09/2023 05/09/2023

06/09/2023-13/09/2023

.4

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

ABRUS

Analyzed By Aarmi Patel AHMEDABAD TO STORY OF THE CHANGE OF THE CHAN

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023



TC-7073

# SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1142C/95S/V2/03 Laboratory Representative Ambient Air In front of Weigh Bridge Ambient Temperature Satisfactory 

 Sampling Start Date:
 02/09/2023

 Sampling End Date:
 03/09/2023

 Sample Receipt Date:
 05/09/2023

 Analysis start- End Date:
 06/09/2023-13/09/2023

 Total Sampling hours:
 24

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

-177	NAAQ Standards	

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

Analyzed By Aarmi Patel

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1142C/95S/V2/04 Laboratory Representative

Ambient Temperature

Ambient Air End Point of Railway Siding

Satisfactory

Sampling Start Date: 02/09/2023 Sampling End Date: 03/09/2023 Sample Receipt Date: 05/09/2023

Analysis start- End Date: Total Sampling hours:

06/09/2023-13/09/2023 24 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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023



TC-7073

# SAMPLE DETAILS

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

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

Lab/PN/1142C/95S/V2/04 Laboratory Representative

Ambient Air

End Point of Railway Siding Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 02/09/2023 03/09/2023 05/09/2023

06/09/2023-13/09/2023

24 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

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Analyzed By Aarmi Patel HAVIS HOUSE OF THE HAVIS HOUSE O

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 14/09/2023



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

02/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1142C/9 5S/V2/05 A	In front of Weigh Bridge	Day Time	dB(A)Leq	IS 4758	60.3	75
2	Lab/PN/1142C/9 5S/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

Analyzed By

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

# 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: Sample Condition: 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 02/09/2023

05/09/2023 06/09/2023 15/09/2023

15/09/2023 GGMPL/WI/27A

Sealed

Specification:

1       pH at 25 °C       6.93       -       IS 3025-Part 11       6.5 to 8.5 No Relaxed         2       Alkalinity as CaCO3       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 Agrees         9       Sulphate       21.96       mg/L       APHA 23rd Edn 4500 SO4 E       200       400         10       Total Dissolved Solids       532.00       mg/L       APHA 23rd Edn 2540 C       500       2000         11       Total Hardness as CaCO3       258.00       mg/L       APHA 23rd Edn 2540 D       NS       NS	Sr.No	Parameters	Results	Unit	Test Method	AL	PL
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 Agreea 9 Sulphate 21.96 mg/L APHA 23rd Edn 4500 SO4 E 200 400 10 Total Dissolved Solids 532.00 mg/L APHA 23rd Edn 2540 C 500 2000 11 Total Hardness as CaCO3 258.00 mg/L APHA 23rd Edn 2340 C 200 600	1	pH at 25 °C	6.93		IS 3025-Part 11	6.5 to 8.5	No Relaxation
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 Agreeable         9 Sulphate       21.96       mg/L       APHA 23rd Edn 4500 SO4 E       200       400         10 Total Dissolved Solids       532.00       mg/L       APHA 23rd Edn 2540 C       500       2000         11 Total Hardness as CaCO3       258.00       mg/L       APHA 23rd Edn 2340 C       200       600	2	Alkalinity as CaCO3	204.00	mg/L	APHA 23rd Edn 2320 B	200	600
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 Agreeable         9       Sulphate       21.96       mg/L       APHA 23rd Edn 4500 SO4 E       200       400         10       Total Dissolved Solids       532.00       mg/L       APHA 23rd Edn 2540 C       500       2000         11       Total Hardness as CaCO3       258.00       mg/L       APHA 23rd Edn 2340 C       200       600	3	Calcium as Ca	52.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
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 Agreeable 9 Sulphate 21.96 mg/L APHA 23rd Edn 4500 SO4 E 200 400  10 Total Dissolved Solids 532.00 mg/L APHA 23rd Edn 2540 C 500 2000  11 Total Hardness as CaCO3 258.00 mg/L APHA 23rd Edn 2340 C 200 600	4	Chloride	41.99	mg/L	IS 3025 -Part 32	250	1000
7       Magnesium as Mg       30.62       mg/L       APHA 23rd Edn 3500 Mg B       30       100         8       Odour       Agreeable       -       IS 3025 Part-5       Agreeable A	5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
8       Odour       Agreeable       -       IS 3025 Part-5       Agreeable Agreeable Agreeable         9       Sulphate       21.96       mg/L       APHA 23rd Edn 4500 SO4 E       200       400         10       Total Dissolved Solids       532.00       mg/L       APHA 23rd Edn 2540 C       500       2000         11       Total Hardness as CaCO3       258.00       mg/L       APHA 23rd Edn 2340 C       200       600	6	Fluoride (F)	0.47	mg/L	APHA 23rd Edn 4500 F D	1	1.5
9 Sulphate 21.96 mg/L APHA 23rd Edn 4500 SO4 E 200 400  10 Total Dissolved Solids 532.00 mg/L APHA 23rd Edn 2540 C 500 2000  11 Total Hardness as CaCO3 258.00 mg/L APHA 23rd Edn 2340 C 200 600	7	Magnesium as Mg	30.62	mg/L	APHA 23rd Edn 3500 Mg B	30	100
10       Total Dissolved Solids       532.00       mg/L       APHA 23rd Edn 2540 C       500       2000         11       Total Hardness as CaCO3       258.00       mg/L       APHA 23rd Edn 2340 C       200       600	8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
11 Total Hardness as CaCO3 258.00 mg/L APHA 23rd Edn 2340 C 200 600	9	Sulphate	21.96	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
	10	Total Dissolved Solids	532.00	mg/L	APHA 23rd Edn 2540 C	500	2000
12 Total Suspended Solids (TSS) 6.00 mg/L APHA 23rd Edn 2540 D NS NS	11	Total Hardness as CaCO3	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

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Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 16/09/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/1141C/94R/V2/01 Laboratory Representative Water

Sampling Date: Sample Receipt Date: Analysis Start Date:

02/09/2023 05/09/2023 06/09/2023 15/09/2023

Sample Description: Sample Quantity: Sample Condition:

Kalaphata Village (GW) 4.5 L

Satisfactory

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sealed

Packing:

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

Phaered

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

Page No: 2/2

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

M/s Moil Limited

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

Reporting Date: 16/09/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1141C/94R/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Sample Quantity:

Kalaphata Village (GW) 4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

02/09/2023 05/09/2023

Analysis Start Date:

06/09/2023 15/09/2023

Analysis End Date: 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

Proceed

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Lab/PN/1141C/94R/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Pench Riverbank (SW)

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A Sealed

02/09/2023

05/09/2023

06/09/2023

15/09/2023

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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

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

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1141C/94R/V2/02 Laboratory Representative

Sample Receipt Date: Analysis Start Date:

02/09/2023 05/09/2023 06/09/2023

Sample Type: Sample Description: Sample Quantity:

Sample Condition:

Pench Riverbank (SW)

Analysis End Date: Sampling Method:

15/09/2023 GGMPL/WI/27A

4.5 L

Water

Satisfactory

Sampling Date:

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

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Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

Page No: 2/2

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M/s Moil Limited

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

Reporting Date: 16/09/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1141C/94R/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Pench Riverbank (SW)

Sample Quantity: Sample Condition: 4.5 L Satisfactory Sampling Date: Sample Receipt Date: 02/09/2023 05/09/2023 06/09/2023

Analysis Start Date: Analysis End Date:

15/09/2023 GGMPL/WI/27A

Sampling Method: 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 AHMEDABAD PV

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1141C/94R/V2/03

Laboratory Representative

Ambient Air Pench Riverbank

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

02/09/2023 03/09/2023

05/09/2023

06/09/2023-15/09/2023

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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Analyzed By Pooja Parekh



**Authorized Signatory** Manish Kumawat

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M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1141C/94R/V2/03

Laboratory Representative

Ambient Air Pench Riverbank Ambient Temperature Satisfactory Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 02/09/2023 03/09/2023 05/09/2023

06/09/2023-15/09/2023

24 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

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

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1141C/94R/V2/04

Laboratory Representative

Ambient Air

500m from Riverbank Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 02/09/2023 03/09/2023

05/09/2023

06/09/2023-15/09/2023 24

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

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Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1141C/94R/V2/04 Laboratory Representative Ambient Air 500m from Riverbank Ambient Temperature Satisfactory

Sampling Start Date: 02/09/2023 Sampling End Date: 03/09/2023 Sample Receipt Date: 05/09/2023 Analysis start- End Date: 06/09/2023-15/09/2023

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

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

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

Analyzed By Pooja Parekh



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Report Number: GGMPL/PN/1141C/94R/V2/05

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1141C/94R/V2/05

Laboratory Representative Ambient Air

Kalaphata Village
Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours:

Env. Cond.-Testing:

02/09/2023

05/09/2023 06/09/2023-15/09/2023

24 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

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

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Analyzed By Pooja Parekh



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Report Number: GGMPL/PN/1141C/94R/V2/05

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1141C/94R/V2/05

Laboratory Representative

Ambient Air Kalaphata Village Ambient Temperature Satisfactory Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 02/09/2023 03/09/2023 05/09/2023

06/09/2023-15/09/2023

24 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

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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1141C/94R/V2/06

Laboratory Representative

Ambient Air Mahuli Village

**Ambient Temperature** Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

24 Env. Cond.-Testing:

02/09/2023 03/09/2023

05/09/2023

06/09/2023-15/09/2023

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

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M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

# SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1141C/94R/V2/06 Laboratory Representative Ambient Air Mahuli Village

Ambient Temperature Satisfactory Sampling Start Date: 02/09/2023
Sampling End Date: 03/09/2023
Sample Receipt Date: 05/09/2023

Analysis start- End Date: 06/0 Total Sampling hours: 24

06/09/2023-15/09/2023

Total Sampling hours: 24 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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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory representative

Sampling Date:

Sample Description:

02/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1141C/9 4R/V2/07A	Pench Riverbank	Day Time	dB(A)Leq	IS 4758	57.3	75
2	Lab/PN/1141C/9 4R/V2/07B	500 m From River Bank	Day Time	dB(A)Leq	IS 4758	58.9	75
3	Lab/PN/1141C/9 4R/V2/07C	Kalaphata Village	Day Time	dB(A)Leq	IS 4758	54.9	75
4	Lab/PN/1141C/9 4R/V2/07D	Mahuli Village	Day Time	dB(A)Leq	IS 4758	55.3	75

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

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