

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1992D/95T/01

Reporting Date: 27/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/01	Sampling Start Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.31	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.64	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.65	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.67	µg/m3	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
Gyanvati Shukla

Page No : 1/2

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Sample Description:	Near Mine Pit	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.1	m/s	GGMPL/SOP/MP/01:2020	NS

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1992D/95T/02

Reporting Date: 27/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/02	Sampling Start Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	Near Hospital	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.01	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.36	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/m3	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)	1.03	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

[Signature]
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Kinjal Damor



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Gyanvati Shukla

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TC-7073

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	Near Hospital	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	4.1	m/s	GGMPL/SOP/MP/01:2020	NS

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(M.S)



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Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	NEAR HAUL ROAD	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond. Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.03	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.67	µg/m3	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

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Sample Description:	NEAR HAUL ROAD	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°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	4.1	m/s	GGMPL/SOP/MP/01:2020	NS

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1992D/95T/04

Reporting Date: 27/09/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/04	Sampling Start Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	Near Staff colony	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.37	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)	18.02	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.45	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.19	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/m3	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)	1.048	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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(M.S)



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Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
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Sample Description:	Near Staff colony	Analysis start- End Date:	20/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	4.1	m/s	GGMPL/SOP/MP/01:2020	NS

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 17/09/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1992D/9 5T/05A	Near mine Pit	Day Time	dB(A)Leq	IS 4750	60.1	-
2	Lab/PN/1992D/9 5T/05B	Near Hospital	Day Time	dB(A)Leq	IS 4758	54.2	-
3	Lab/PN/1992D/9 5T/05C	Near Haul Road	Day Time	dB(A)Leq	IS 4750	62.3	-
4	Lab/PN/1992D/9 5T/05D	Near staff Colony	Day Time	dB(A)Leq	IS 4758	53.6	-

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

Analyzed By
Kinjal Damor



Authorized Signatory
Gyanvati Shukla

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992D/95T/06

Reporting Date : 27/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/06	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Staff colony Borewell Water GW	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	193.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	59.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.21	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.61	-	IS 3025- Part 11	6.5 8.5	No relaxation
9	Sulphate	19.04	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	300.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2510 D	NC	NC

AL & PL AS Per IS 10500.

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

[Signature]
Analyzed By
Kinjal Damor



[Signature]
Authorized Signatory
Gyanvati Shukla

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992D/95T/06

Reporting Date : 27/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

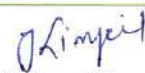
Lab ID:	Lab/PN/1992D/95T/06	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Staff colony Borewell Water GW	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	211.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	0.58	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.07	mg/L	APHA 23rd Edn 4500 NO ₃ 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
Gyanvati Shukla

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LP/1992D/95T/07

Reporting Date : 27/09/2024

M/s Moil Limited

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

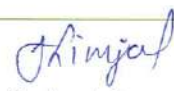


SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/07	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Waste Water	Analysis Start Date:	20/09/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	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	7.43	-	IS 3025- Part 11	-
2	Total Suspended Solids	54.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	232.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	69	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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


Analyzed By
Kinjal Damor




Authorized Signatory
Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992D/95T/08

Reporting Date : 27/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/08	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Waste Water	Analysis Start Date:	20/09/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	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	7.43	-	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	36.0	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.90	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	9.60	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms AS Per CTO

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

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Kinjal Damor



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Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992D/95T/09

M/s Moil Limited

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

Reporting Date : 27/09/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/09	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Waste Water	Analysis Start Date:	20/09/2024
Sample Description:	Mine Dishcharge Water (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	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	7.27	-	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	32.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	8.66	mg/L	IS 3025- Part 41	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992D/95T/10

M/s Moil Limited

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

Reporting Date : 27/09/2024



SAMPLE DETAILS

Lab ID: Lab/PN/1992D/95T/10
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: STP Inlet (WW)

Sampling Date: 18/09/2024
Sample Receipt Date: 19/09/2024
Analysis Start Date: 20/09/2024
Analysis End Date: 26/09/2024

Sample Quantity: 5 L
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.53	-	IS 3025- Part 11	-
2	Total Suspended Solids	116.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	224.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	66.00	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By
Kinjal Damor



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Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992D/95T/11

Reporting Date : 27/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1992D/95T/11	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Waste Water	Analysis Start Date:	20/09/2024
Sample Description:	STP Outlet(WW)	Analysis End Date:	26/09/2024
Sample Quantity:	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	7.58	-	IS 3025- Part 11	-
2	Total Suspended Solids	18.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	11	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1993D/95T/01

Reporting Date : 25/09/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1993D/95T/01	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	19/09/2024
Sample Description:	Staff colony Borewell water GW	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1994D/95C/01

Reporting Date: 28/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1994D/95C/01	Sampling Start Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	In front of Weigh Bridge	Analysis start- End Date:	20/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.95	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.07	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.94	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	µg/m3	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)	1.03	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 Shirmali




Authorized Signatory
Gyanvati Shukla

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1994D/95C/01

Reporting Date: 28/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1994D/95C/01	Sampling Start Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	In front of Weigh Bridge	Analysis start- End Date:	20/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.2	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1994D/95C/02

Reporting Date: 28/09/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1994D/95C/02	Sampling Start Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	20/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.89	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.97	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1994D/95C/02

Reporting Date: 28/09/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1994D/95C/02	Sampling Start Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/09/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	20/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.2	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Page No : 2/2

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Report Number: GGMPL/PN/1994D/95C/03

Reporting Date: 28/09/2024

M/s Moil Limited

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




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sampling By : Laboratory Representative


Sampling Date: 17/09/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1994D/95C/03A	In front of Weigh Bridge	Day Time	dB(A)Leq	IS 4758	69.8	-
2	Lab/PN/1994D/95C/03B	End Point of Railway Side	Day Time	dB(A)Leq	IS 4758	66.4	-

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


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1994D/95C/04

Reporting Date : 28/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1994D/95C/04	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	185.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	58.11	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	74.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	43.74	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.89	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	70.20	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	430.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	325.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1994D/95C/04

Reporting Date : 28/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1994D/95C/04	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.61	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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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1994D/95C/05

Reporting Date : 28/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

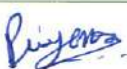
Lab ID:	Lab/PN/1994D/95C/05	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	225.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	58.11	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	68.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.05	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	48.60	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.54	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	65.84	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	410.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1994D/95C/05

Reporting Date : 28/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

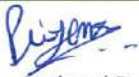
Lab ID:	Lab/PN/1994D/95C/05	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	20/09/2024
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	27/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	345.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.81	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation


AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali



--- End of Report ---


Authorized Signatory
Gyanvati Shukla

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1995D/95C/01

Reporting Date : 25/09/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1995D/95C/01	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	19/09/2024
Sample Description:	Railway Siding (Borewell Water) (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1995D/95C/02

Reporting Date : 25/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1995D/95C/02	Sampling Date:	18/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/09/2024
Sample Type:	Ground Water	Analysis Start Date:	19/09/2024
Sample Description:	Near Old colony Borewell Water (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



Hg
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2027D/94R/01

M/s Moil Limited

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

Reporting Date : 01/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/01	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Water	Analysis Start Date:	23/09/2024
Sample Description:	Pench River Bank (SW)	Analysis End Date:	30/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	169.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.89	mg/L	APHA 23rd Edn 3500 Ca D	75	200
3	Chloride	45.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.39	mg/l	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.61	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.58	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	267.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	186.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

Kinjal
Analyzed By
Kinjal Damor



P. B. Patel
Authorized Signatory
Payal Patel

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Report Number: GGMPL/PN/2027D/94R/01

Reporting Date : 01/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/01	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Water	Analysis Start Date:	23/09/2024
Sample Description:	Pench River Bank (SW)	Analysis End Date:	30/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.69	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.84	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL AS Per IS 10500.

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P.B. Patel
Authorized Signatory
Payal Patel

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Report Number: GGMPL/PN/2027D/94R/02

Reporting Date : 01/10/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2027D/94R/02	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Ground Water	Analysis Start Date:	23/09/2024
Sample Description:	Kalaphata Village (GW)	Analysis End Date:	30/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	201.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	50.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	54.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.34	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.76	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.59	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	384.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	232.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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


Analyzed By
Kinjal Damor




Authorized Signatory
Payal Patel

Page No : 1/2

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Report Number: GGMPL/PN/2027D/94R/02

Reporting Date : 01/10/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/02	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Ground Water	Analysis Start Date:	23/09/2024
Sample Description:	Kalaphata Village (GW)	Analysis End Date:	30/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.42	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.54	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



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Payal Patel

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Reporting Date: 01/10/2024

M/s Moil Limited



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

**SAMPLE DETAILS**

Lab ID:	Lab/PN/2027D/94R/03	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Pench River Bank	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.83	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.74	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.63	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/m3	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)		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/2027D/94R/03

Reporting Date: 01/10/2024

M/s Moil Limited
Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/03	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Pench River Bank	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Kinjal Damor




Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2027D/94R/04

Reporting Date: 01/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/04	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	500m from Riverbank	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.74	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.00	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.34	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.67	µg/m3	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

Analyzed By
Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2027D/94R/04

Reporting Date: 01/10/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/04	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	500m from Riverbank	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°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	3.2	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/2027D/94R/05

Reporting Date: 01/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/05	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Mahuli Village	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.53	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/m3	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

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Report Number : GGMPL/PN/2027D/94R/05

Reporting Date: 01/10/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/05	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Mahuli Village	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°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	3.2	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/2027D/94R/06

Reporting Date: 01/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/06	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Kalaphata Village	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.95	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)	14.27	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.45	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.62	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2027D/94R/06

Reporting Date: 01/10/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2027D/94R/06	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Kalaphata Village	Analysis start- End Date:	23/09/2024-30/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2027D/94R/07

Reporting Date: 01/10/2024

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:

19/09/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2027D/94R/07A	Pench River Bank	Day Time	dB(A)Leq	IS 4758	59.7	-
2	Lab/PN/2027D/94R/07B	500m from River Bank	Day Time	dB(A)Leq	IS 4758	59.4	-
3	Lab/PN/2027D/94R/07C	mahuli villae	Day Time	db(A)Leq	IS 4758	61.4	-
4	Lab/PN/2027D/94R/07D	kalaphata village	Day Time	dB(A)Leq	IS 4758	62.2	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2028D/94R/01

M/s Moil Limited

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

Reporting Date : 27/09/2024



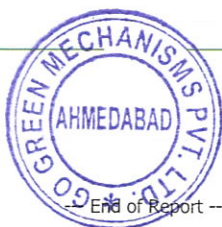
SAMPLE DETAILS

Lab ID:	Lab/PN/2028D/94R/01	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	SW of Pench River Bank	Analysis End Date:	27/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Total coliform	22	MPN/100ml	APHA 9221B 24th Edition 2021	NS
2	E. coli	4.5	MPN/100ml	APHA 9221G 24th Edition	NS

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


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2028D/94R/02

M/s Moil Limited

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

Reporting Date : 27/09/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2028D/94R/02	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Ground Water	Analysis Start Date:	21/09/2024
Sample Description:	GW of Kalaphata Village	Analysis End Date:	27/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	API IA 9221D 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By
Nidhi Shah



Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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