

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2358D/06A/01

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/01	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Nagra Plant	Analysis start- End Date:	23/10/2024-29/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.34	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)	14.89	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.76	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.39	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)	1.10	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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Sample Description:	Near Nagra Plant	Analysis start- End Date:	23/10/2024-29/10/2024
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	55	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/02	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near vertical Shaft 1	Analysis start- End Date:	23/10/2024-29/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.68	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)	13.27	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.43	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.54	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.11	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)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near vertical Shaft 1	Analysis start- End Date:	23/10/2024-29/10/2024
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	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/03	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Workshop	Analysis start- End Date:	25/10/2024-29/10/2024
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)	75.03	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)	12.57	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.56	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.55	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)	0.87	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 Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Workshop	Analysis start- End Date:	25/10/2024-29/10/2024
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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/04	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Ukwa Village	Analysis start- End Date:	23/10/2024-29/10/2024
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)	76.81	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)	16.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.33	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.96	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Sample Description:	Near Ukwa Village	Analysis start- End Date:	23/10/2024-29/10/2024
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	33	°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	5	m/s	GGMPL/SOP/MP/01:2020	NS

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TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 20/10/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2358D/06A/05A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	65.4	-
2	Lab/PN/2358D/06A/05B	Near Vertical Shaft-I	Day Time	dB(A)Leq	IS 4758	64.3	-
3	Lab/PN/2358D/06A/05C	Near Workshop	Day Time	dB(A)Leq	IS 4758	62.7	-
4	Lab/PN/2358D/06A/05D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	52.1	-

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Kinjal Damor



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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/06

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/06	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	D.W Mine Office	Analysis End Date:	29/10/2024
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	82.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	42.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.34	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.86	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.98	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	206.00	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	149.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/06

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/06	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	D.W Mine Office	Analysis End Date:	29/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/L/A
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	3.42	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AI & PL As Per IS 10500

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

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Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/07

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/07	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	New Mine Colony Pump House (GW)	Analysis End Date:	29/10/2024
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	133.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	51.30	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	59.48	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	9.96	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	55.55	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	306.00	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

AL & PL As Per IS 10500

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

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Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LPN/2358D/06A/07

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/07	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	New Mine Colony Pump House (GW)	Analysis End Date:	29/10/2024
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	169.00	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	4.85	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AI & PL As Per IS 10500

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

Kinjal
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Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/08

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/08	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	D.W officer Colony No-4	Analysis End Date:	29/10/2024
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	156.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.84	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.63	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.67	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	317.00	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	196.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/08

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/08	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	D.W officer Colony No-4	Analysis End Date:	29/10/2024
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	1.66	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AI & PL As Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/09

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/09	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	Rest House D.W.	Analysis End Date:	29/10/2024
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	96.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	26.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	32.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.42	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.69	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.39	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	190.00	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	112.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/09

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2358D/06A/09	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	23/10/2024
Sample Description:	Rest House D.W.	Analysis End Date:	29/10/2024
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	1.00	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AI & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/01

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date : 28/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2364D/06A/01	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	22/10/2024
Sample Description:	Mine office D.W.	Analysis End Date:	28/10/2024
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 9222 A&B 24h Edition 2021	Absent	Absent
2	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS10500

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

Analyzed By
Komal Yadav



Authorized Signatory
Dr. Haragobinda Srichandan

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/02

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date : 28/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2364D/06A/02	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	22/10/2024
Sample Description:	New Mine colony pump house G.W.	Analysis End Date:	28/10/2024
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	pcr 100ml	APHA 9221B 21th Edition 2021	Absent	Absent
2	E. coli	Absent	pcr 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS10500

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

Komal
Analyzed By
Komal Yadav



--- End of Report ---

Dr. Haragobinda
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/03

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date : 28/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2364D/06A/03	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	22/10/2024
Sample Description:	Officer Colony No.4 (D.W)	Analysis End Date:	28/10/2024
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 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS10500

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

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Komal Yadav



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/04

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date : 28/10/2024



SAMPLE DETAILS

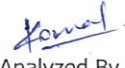
Lab ID:	Lab/PN/2364D/06A/04	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	22/10/2024
Sample Description:	Rest House (D.W)	Analysis End Date:	28/10/2024
Sample Quantity:	500 ML	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS10500

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


Analyzed By
Komal Yadav




Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2359D/06B/01

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



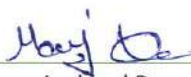
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/01	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	22/10/2024-28/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.16	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.20	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.37	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.52	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	DQL (QL=0.5)	µg/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
Manoj Kumar




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2359D/06B/01

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/01	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	22/10/2024-28/10/2024
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	31.85	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	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	0.83	m/s	GGMPL/SOP/MP/01:2020	NS

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Analyzed By
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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2359D/06B/02

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/02	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Substation	Analysis start- End Date:	22/10/2024-28/10/2024
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)	68.40	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.13	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.40	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.73	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
Manoj Kumar



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Payal Patel

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Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/02	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Substation	Analysis start- End Date:	22/10/2024-28/10/2024
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	32.85	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/03	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Admin Building	Analysis start- End Date:	22/10/2024-28/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.34	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.53	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.16	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

Manoj Kumar

Analyzed By
Manoj Kumar



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2359D/06B/03

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/03	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Admin Building	Analysis start- End Date:	22/10/2024-28/10/2024
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	31.85	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	1.38	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/2359D/06B/04

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/04	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	22/10/2024-28/10/2024
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)	71.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.13	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.95	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)	1.10	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

Manoj Kumar

Analyzed By
Manoj Kumar



P. Patel

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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2359D/06B/04

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/04	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	22/10/2024-28/10/2024
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	NAAO Standards
12	Temperature	32.85	°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	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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

Manoj Kumar

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Manoj Kumar



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Report Number: GGMPL/PN/2359D/06B/05

Reporting Date: 22/11/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 21/10/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2359D/06B/09A	Near Vertical Shaft-II	Day Time	dB(A)Leq	IS 4758	64.4	-
2	Lab/PN/2359D/06B/09B	Compressor House-II	Day Time	dB(A)Leq	IS 4758	65.7	-
3	Lab/PN/2359D/06B/09C	Near Jack Hammer Drill (1650 Level)	Day Time	dB(A)Leq	IS 4758	65.4	-
4	Lab/PN/2359D/06B/09D	Dumper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	62.1	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/06

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



SAMPLE DETAILS

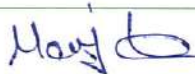
Lab ID:	Lab/PN/2359D/06B/06	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	22/10/2024
Sample Description:	Vertical Shaft II Open Dugwell	Analysis End Date:	28/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	278.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	49.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.11	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	21.03	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	346.00	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	198.00	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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Report Number: GGMPL/PN/2359D/06B/06

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

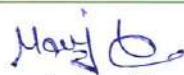
Lab ID:	Lab/PN/2359D/06B/06	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	22/10/2024
Sample Description:	Vertical Shaft II Open Dugwell	Analysis End Date:	28/10/2024
Sample Quantity:	3 L	Sampling Method:	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	0.138	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.32	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/07

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



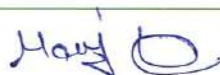
TC-7073

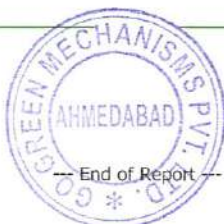
SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/07	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Waste Water	Analysis Start Date:	22/10/2024
Sample Description:	Mine Seepage Water (WW)	Analysis End Date:	28/10/2024
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	7.35	-	IS 3025- Part 11	-
2	Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	13.64	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/2359D/06B/08

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024




SAMPLE DETAILS

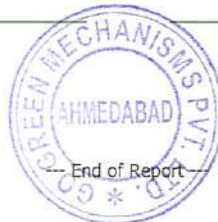
Lab ID:	Lab/PN/2359D/06B/08	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Waste Water	Analysis Start Date:	22/10/2024
Sample Description:	STP Outlet	Analysis End Date:	28/10/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.31	-	IS 3025- Part 11	-
2	Total Suspended Solids	23.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	50.00	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	17.27	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

Norms as Per CCA

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


Analyzed By
Manoj Kumar




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/09

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024




SAMPLE DETAILS

Lab ID:	Lab/PN/2359D/06B/09	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Waste Water	Analysis Start Date:	22/10/2024
Sample Description:	ETP Outlet	Analysis End Date:	28/10/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.34	-	IS 3025- Part 11	5.5 to 9
2	Total Suspended Solids	BQL (QL=10)	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mq/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	19.33	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

Norms as Per CTO

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


Analyzed By
Manoj Kumar




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2365D/06B/01

Reporting Date : 28/10/2024

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/2365D/06B/01	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Ground Water	Analysis Start Date:	22/10/2024
Sample Description:	Vertical shaft-II Open Dug well (GW)	Analysis End Date:	28/10/2024
Sample Quantity:	500 ML	Sampling Method:	GGMPL /WT/77A
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 IS10500

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


Analyzed By
Komal Yadav



--- End of Report ---


Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2360D/06C/01

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/01	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Chindhi tola village	Analysis start- End Date:	23/10/2024-29/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.84	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.43	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.95	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

Analyzed By
Kinjal Damor



Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2360D/06C/01

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/01	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Chindhi tola village	Analysis start- End Date:	23/10/2024-29/10/2024
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	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	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/2360D/06C/02

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/02	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	23/10/2024-29/10/2024
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)	76.10	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)	15.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.67	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)	1.05682	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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Report Number : GGMPL/PN/2360D/06C/02

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/02	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	23/10/2024-29/10/2024
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	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/03	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	23/10/2024-29/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.63	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)	14.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.25	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

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Report Number : GGMPL/PN/2360D/06C/03

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/03	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	23/10/2024-29/10/2024
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	33	°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	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2360D/06C/04

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/04	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near New Mine colony	Analysis start- End Date:	22/10/2024-29/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.97	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.39	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)	1.06	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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Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2360D/06C/04

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/04	Sampling Start Date:	20/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/10/2024
Sample Description:	Near New Mine colony	Analysis start- End Date:	22/10/2024-29/10/2024
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	58	%	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	5	m/s	GGMPL/SOP/MP/01:2020	NS

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Report Number: GGMPL/PN/2360D/06C/05

Reporting Date: 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

20/10/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2360D/06C/05A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	52.4	-
2	Lab/PN/2360D/06C/05B	Near Pit Office 2 vertical Shaft	Day Time	dB(A)Leq	IS 4758	59.2	-
3	Lab/PN/2360D/06C/05C	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	62.4	-
4	Lab/PN/2360D/06C/05D	Haul Road	Day Time	dB(A)Leq	IS 4758	54.1	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2360D/06C/06

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/06	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	23/10/2024
Sample Description:	Chindhi tola village open dugwell (GW)	Analysis End Date:	29/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	86.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	24.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	25.99	mg/L	IS 3025- Part 32	250	1000
4	Copper	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.45	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	13.39	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	154.00	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
12	Total Hardness as CaCO ₃	132.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/06

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/06	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	23/10/2024
Sample Description:	Chindhi tola village open dugwell (GW)	Analysis End Date:	29/10/2024
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	0.2	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	1.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL AS Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/07

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



SAMPLE DETAILS

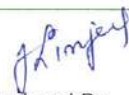
Lab ID:	Lab/PN/2360D/06C/07	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	23/10/2024
Sample Description:	Dugwell near pit office (GW)	Analysis End Date:	29/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	110.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	19.64	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	34.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.20	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	7.52	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	15.67	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	204.00	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	123.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2360D/06C/07

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2360D/06C/07
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Dugwell near pit office (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 21/10/2024
Sample Receipt Date: 22/10/2024
Analysis Start Date: 23/10/2024
Analysis End Date: 29/10/2024
Sampling Method: GGMP/L/WI/27A
Packing: Sealed

Specification:

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

AL & PL AS Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2360D/06C/08

Reporting Date : 29/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/08	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	23/10/2024
Sample Description:	Dugwell near Haul road 2 (GW)	Analysis End Date:	29/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	116.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	28.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	47.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.29	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.65	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	19.94	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	220.00	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	120.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/08

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/08	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Water	Analysis Start Date:	23/10/2024
Sample Description:	Dugwell near Haul road 2 (GW)	Analysis End Date:	29/10/2024
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	0.3	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/16	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.00	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

[Signature]
Analyzed By
Kinjal Damor



[Signature]
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/09

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date : 29/10/2024




SAMPLE DETAILS

Lab ID:	Lab/PN/2360D/06C/09	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/10/2024
Sample Type:	Waste Water	Analysis Start Date:	23/10/2024
Sample Description:	Near mine seepage vertical 2	Analysis End Date:	29/10/2024
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	7.36	-	IS 3025- Part 11	-
2	Total Suspended Solids	17.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	28.00	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	8.75	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 Darnor




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2366D/06C/01

Reporting Date : 28/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2366D/06C/01	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/10/2024
Sample Type:	Ground Water	Analysis Start Date:	22/10/2024
Sample Description:	Chindhi tola village open dugwell (GW)	Analysis End Date:	28/10/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPI /WT/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
Aman Soni



--- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2366D/06C/02

Reporting Date : 28/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2366D/06C/02	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/10/2024
Sample Type:	Ground Water	Analysis Start Date:	22/10/2024
Sample Description:	Dugwell near pit office (GW)	Analysis End Date:	28/10/2024
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
Amian Soni



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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2366D/06C/03

Reporting Date : 28/10/2024

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2366D/06C/03	Sampling Date:	21/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/10/2024
Sample Type:	Ground Water	Analysis Start Date:	22/10/2024
Sample Description:	Dugwell near Haul road 2 (GW)	Analysis End Date:	28/10/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

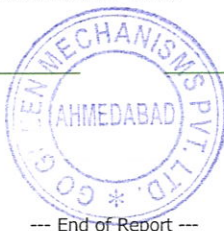
Specification:

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

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