

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1064D/06A/01

M/s Moil Limited

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

Reporting Date : 11/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/01	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	D.W Mine Office	Analysis End Date:	10/07/2024
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	100.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.76	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.12	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.64	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	264.00	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	154.00	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
Khushbu Suthar



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Manish Kumawat

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/01	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	D.W Mine Office	Analysis End Date:	10/07/2024
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	3.16	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/1064D/06A/02

Reporting Date : 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/02	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	New Mine Colony Pump House (GW)	Analysis End Date:	10/07/2024
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	108.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	37.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.68	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.69	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	37.77	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	276.00	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.

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K. Kumbhar
Analyzed By
Khushbu Suthar



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Manish Kumawat

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SAMPLE DETAILS

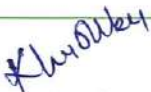
Lab ID:	Lab/PN/1064D/06A/02	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	New Mine Colony Pump House (GW)	Analysis End Date:	10/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	138.00	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	3.21	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500.

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Manish Kumawat

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Reporting Date : 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/03	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	D.W officer Colony No-4	Analysis End Date:	10/07/2024
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	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	51.98	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	10.93	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	30.15	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	244.00	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	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

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



SAMPLE DETAILS

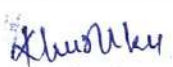
Lab ID:	Lab/PN/1064D/06A/03	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	D.W officer Colony No-4	Analysis End Date:	10/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
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	2.11	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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Reporting Date : 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/04	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	Rest House D.W.	Analysis End Date:	10/07/2024
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	105.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.87	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	10.20	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.25	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.91	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

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SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/04	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	Rest House D.W.	Analysis End Date:	10/07/2024
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	134.00	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	1.54	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1064D/06A/05

Reporting Date: 11/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/05	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Nagra Plant	Analysis start- End Date:	03/07/2024-10/07/2024
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)	68.50	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.81	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.20	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.65	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.06	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Khushbu Suthar




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1064D/06A/05

Reporting Date: 11/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/05	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Nagra Plant	Analysis start- End Date:	03/07/2024-10/07/2024
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	GGMP/L/SOP/MP/01	NS
13	Relative Humidity	54	%	GGMP/L/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMP/L/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	GGMP/L/SOP/MP/01:2020	NS

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


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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1064D/06A/06

Reporting Date: 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/06	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near vertical Shaft 1	Analysis start- End Date:	03/07/2024-10/07/2024
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)	60.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.21	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.01	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.03	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Khushbu Suthar



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1064D/06A/06

Reporting Date: 11/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/06	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near vertical Shaft 1	Analysis start- End Date:	03/07/2024-10/07/2024
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	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	3.2	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/1064D/06A/07

Reporting Date: 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/07	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Workshop	Analysis start- End Date:	03/07/2024-10/07/2024
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)	64.75	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.04	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.53	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.06	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)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	1.02	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Khushbu Suthar



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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1064D/06A/07

Reporting Date: 11/07/2024

M/s Moil Limited

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

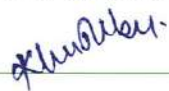


SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/07	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Workshop	Analysis start- End Date:	03/07/2024-10/07/2024
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	54	%	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/1064D/06A/08

Reporting Date: 11/07/2024

M/s Moil Limited

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



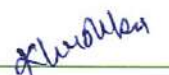
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/08	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Ukwa Village	Analysis start- End Date:	03/07/2024-10/07/2024
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)	58.83	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.06	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.21	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1064D/06A/08

Reporting Date: 11/07/2024

M/s Moil Limited

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

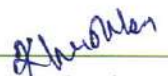


SAMPLE DETAILS

Lab ID:	Lab/PN/1064D/06A/08	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Ukwa Village	Analysis start- End Date:	03/07/2024-10/07/2024
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	GGMP/L/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMP/L/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMP/L/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	GGMP/L/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/1064D/06A/09

Reporting Date: 11/07/2024

M/s Moil Limited

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



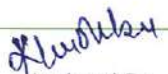
SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 30/06/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1064D/0 6A/09A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	69.8	-
2	Lab/PN/1064D/0 6A/09B	Near Vertical Shaft-I	Day Time	dB(A)Leq	IS 4758	72.7	-
3	Lab/PN/1064D/0 6A/09C	Near Workshop	Day Time	dB(A)Leq	IS 4758	70.8	-
4	Lab/PN/1064D/0 6A/09D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	68.7	-

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


Analyzed By
Khushbu Suthar



--- End of Report ---


Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1065D/06A/01

M/s Moil Limited

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

Reporting Date : 08/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1065D/06A/01	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Water	Analysis Start Date:	03/07/2024
Sample Description:	Mine office D.W.	Analysis End Date:	08/07/2024
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 IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



Hg
Authorized Signatory
Dr. Haragobinda Srichandan

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1065D/06A/02

M/s Moil Limited

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

Reporting Date : 08/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1065D/06A/02	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	New Mine colony pump house G.W.	Analysis End Date:	08/07/2024
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



Haragobinda
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1065D/06A/03

Reporting Date : 08/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1065D/06A/03	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Water	Analysis Start Date:	03/07/2024
Sample Description:	Officer Colony No.4 (D.W)	Analysis End Date:	08/07/2024
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 IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



1/18
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Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1065D/06A/04

M/s Moil Limited

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

Reporting Date : 08/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1065D/06A/04	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Water	Analysis Start Date:	03/07/2024
Sample Description:	Rest House (D.W)	Analysis End Date:	08/07/2024
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 IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1066D/06B/01

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/01	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Waste Water	Analysis Start Date:	03/07/2024
Sample Description:	Mine Seepage Water (WW)	Analysis End Date:	10/07/2024
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	7.38	-	IS 3025- Part 11	-
2	Total Suspended Solids	26.00	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	5.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	16	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

AB Patel
Analyzed By
Aarmi Patel



--- End of Report ---

Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1066D/06B/02

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/02	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Waste Water	Analysis Start Date:	03/07/2024
Sample Description:	STP Outlet	Analysis End Date:	10/07/2024
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	7.25	-	IS 3025- Part 11	NS
2	Total Suspended Solids	26.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	NS
5	Dissolved Oxygen	5.30	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	13	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms as Per CCA

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

AB Patel

Analyzed By
Aarmi Patel



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Manish Kumawat

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1066D/06B/03

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/03	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Waste Water	Analysis Start Date:	03/07/2024
Sample Description:	ETP Outlet	Analysis End Date:	10/07/2024
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	7.25	-	IS 3025- Part 11	5.5 To 9.0
2	Total Suspended Solids	BQL (QL=10)	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	70.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.1	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	23	mg/L	IS 3025- Part 44	30
7	Manganese	0.19	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CCA

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

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1066D/06B/04

M/s Moil Limited

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

Reporting Date : 11/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/04	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	Vertical Shaft II Open Dugwell	Analysis End Date:	10/07/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	254.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.26	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.74	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	328.00	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	179.00	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
Aarmi Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1066D/06B/04

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID: Lab/PN/1066D/06B/04
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Vertical Shaft II Open Dugwell
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 30/06/2024
Sample Receipt Date: 02/07/2024
Analysis Start Date: 03/07/2024
Analysis End Date: 10/07/2024
Sampling Method: GGMP/L/WI/27A
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	GGMP/L/SOP/W & WW/46	0.3	No relaxation
15	Manganese	0.134	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.42	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
Aarmi Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1066D/06B/05

Reporting Date: 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/05	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	03/07/2024-10/07/2024
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)	66.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.82	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.16	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.30	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)	0.97	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
Aarmi Patel




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1066D/06B/05

Reporting Date: 11/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/05	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	03/07/2024-10/07/2024
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	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1066D/06B/06

Reporting Date: 11/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/06	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Substation	Analysis start- End Date:	03/07/2024-10/07/2024
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)	63.48	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.07	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.38	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	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)	0.94	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
Aarmi Patel




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1066D/06B/07

Reporting Date: 11/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/07	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Admin Building	Analysis start- End Date:	03/07/2024-10/07/2024
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)	62.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.88	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	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)	1.02	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/1066D/06B/08

Reporting Date: 11/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/08	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	03/07/2024-10/07/2024
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)	67.07	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)	15.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.64	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.89	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

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


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Aarmi Patel




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1066D/06B/08

Reporting Date: 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1066D/06B/08	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	03/07/2024-10/07/2024
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	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	2.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

AB Patel
Analyzed By
Aarmi Patel



--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1066D/06B/09

Reporting Date: 11/07/2024

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: 30/06/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1066D/06B/09A	Near Vertical Shaft-II	Day Time	dB(A)Leq	IS 4758	72.8	-
2	Lab/PN/1066D/06B/09B	Compressor House- II	Day Time	dB(A)Leq	IS 4758	73.5	-
3	Lab/PN/1066D/06B/09C	Near Jack Hammer Drill (1650 Level)	Day Time	dB(A)Leq	IS 4758	71.9	-
4	Lab/PN/1066D/06B/09D	Dumper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	70.4	-

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

AB Patel

Analyzed By
Aarmi Patel



--- End of Report ---

Manish Kumawat

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/01

M/s Moil Limited

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

Reporting Date : 11/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/01	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	10/07/2024
Sample Quantity:	3L	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	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	28.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	32.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.15	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.58	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	18.30	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	174.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	131.00	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

AB Patel

Analyzed By
Aarmi Patel



Manish Kumawat

Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/01

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/01	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	10/07/2024
Sample Quantity:	3L	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	1.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

AB Patel

Analyzed By
Aarmi Patel



--- End of Report ---

Manish Kumawat
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/02

Reporting Date : 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/02	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Ground Water	Analysis Start Date:	03/07/2024
Sample Description:	Dugwell near pit office (GW)	Analysis End Date:	10/07/2024
Sample Quantity:	3L	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	83.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	18.04	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.11	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.12	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.11	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	164.00	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	109.00	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

Aarmi Patel

Analyzed By
Aarmi Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/02

M/s Moil Limited

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

Reporting Date : 11/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1068D/06C/02
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Dugwell near pit office (GW)
Sample Quantity: 3L
Sample Condition: Satisfactory

Sampling Date: 30/06/2024
Sample Receipt Date: 02/07/2024
Analysis Start Date: 03/07/2024
Analysis End Date: 10/07/2024
Sampling Method: GGMPL/WI/27A
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	1.23	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

Aarmi Patel

Analyzed By
Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/03

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID: Lab/PN/1068D/06C/03
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Dugwell near Haul Road 2
Sample Quantity: 3L
Sample Condition: Satisfactory

Sampling Date: 30/06/2024
Sample Receipt Date: 02/07/2024
Analysis Start Date: 03/07/2024
Analysis End Date: 10/07/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	97.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	24.85	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	44.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.19	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.95	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.35	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	16.33	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	168.00	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	140.00	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

AB Patel

Analyzed By
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/03

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID: Lab/PN/1068D/06C/03
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Dugwell near Haul Road 2
Sample Quantity: 3L
Sample Condition: Satisfactory

Sampling Date: 30/06/2024
Sample Receipt Date: 02/07/2024
Analysis Start Date: 03/07/2024
Analysis End Date: 10/07/2024
Sampling Method: GGMPL/WI/27A
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	1.04	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

Aarmi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/04

M/s Moil Limited

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

Reporting Date : 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/04	Sampling Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/07/2024
Sample Type:	Waste Water	Analysis Start Date:	03/07/2024
Sample Description:	Near Mine seepage vertical II	Analysis End Date:	10/07/2024
Sample Quantity:	3L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.23	-	IS 3025- Part 11	-
2	Total Suspended Solids	29.00	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	5.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	16	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

AB Patel
Analyzed By
Aarmi Patel



--- End of Report ---

Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/05

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/05	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	03/07/2024-10/07/2024
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)	62.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.27	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.60	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)	0.99	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

AB Patel

Analyzed By
Aarmi Patel



Manish Kumawat

Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/05

Reporting Date: 11/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/05	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	03/07/2024-10/07/2024
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	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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

AB Patel
Analyzed By
Aarmi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/06	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	03/07/2024-10/07/2024
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)	65.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.75	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.69	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	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

AAP Patel
Analyzed By
Aarmi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/06	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	03/07/2024-10/07/2024
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	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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

A.B.Patel
Analyzed By
Aarmi Patel



[Signature]
Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/07

M/s Moil Limited

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

Reporting Date: 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/07	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	03/07/2024-10/07/2024
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)	56.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.56	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	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)	0.97	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

Aarmi Patel
Analyzed By
Aarmi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/07

M/s Moil Limited

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

Reporting Date: 11/07/2024




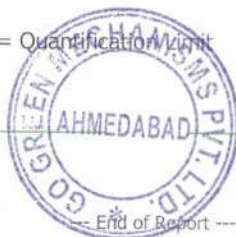
SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/07	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	03/07/2024-10/07/2024
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	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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Aarmi Patel




Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/08	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near New Mine Colony	Analysis start- End Date:	03/07/2024-10/07/2024
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)	61.04	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)	13.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.98	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.32	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	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

Aarmi Patel
Analyzed By
Aarmi Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1068D/06C/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1068D/06C/08	Sampling Start Date:	30/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/07/2024
Sample Description:	Near New Mine Colony	Analysis start- End Date:	03/07/2024-10/07/2024
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	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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Aarmi Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1068D/06C/09

Reporting Date: 11/07/2024

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: 30/06/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1068D/06C/09A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	68.9	-
2	Lab/PN/1068D/06C/09B	Near pit office -2 vertical shaft	Day Time	dB(A)Leq	IS 4758	71.8	-
3	Lab/PN/1068D/06C/09C	Near vertical fan	Day Time	dB(A)Leq	IS 4758	70.5	-
4	Lab/PN/1068D/06C/09D	Near haul road	Day Time	dB(A)Leq	IS 4758	71.4	-

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

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

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