

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/929C/79A/V2/01

Reporting Date : 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Open Dugwell No.3 (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.46	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	124.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	37.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.14	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	15.07	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	12.84	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	309.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	166.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Sachi
Analyzed By
Sachi Patel



Manish
Authorized Signatory
Manish Kumawat

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SAMPLE DETAILS

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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Open Dugwell No.3 (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.83	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/929C/79A/V2/01A

Reporting Date : 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Open Dugwell No.3 (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/929C/79A/V2/02

Reporting Date : 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Mine Discharge Water Block No. A-B Pit (WW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	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	24.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	16.00	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

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TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/03	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.29	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	130.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	35.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.31	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	15.82	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	316.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	162.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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


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TC-7073

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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.26	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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Reporting Date : 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/03	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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Reporting Date : 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/04	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.43	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	42.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	33.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.34	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	12.84	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	296.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	174.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

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SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/04	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/929C/79A/V2/04A

Reporting Date : 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS


Lab ID:	Lab/PN/929C/79A/V2/04	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	19/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


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

AL & PL As Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/929C/79A/V2/05

Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/05	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.37	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)	12.51	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.06	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Report Number : GGMP/ PN/929C/79A/V2/05

Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/05	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMP/ SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMP/ 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/929C/79A/V2/06

Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/06	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Guest House	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.55	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.59	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.71	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.94	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/06	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Guest House	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/929C/79A/V2/07

Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/07	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Tirodi Village	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.37	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.56	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.37	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.88	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/07	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Tirodi Village	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	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/929C/79A/V2/08

Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/08	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Officer Colony	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.26	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.63	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.06	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.88	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/929C/79A/V2/08

Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/929C/79A/V2/08	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Officer Colony	Analysis start- End Date:	09/08/2023-19/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Sachi
Analyzed By
Sachi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/929C/79A/V2/09

Reporting Date: 21/08/2023

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 05/08/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/929C/79 A/V2/09A	Nr Officr Permisses	Day Time	dB(A)Leq	IS 4758	56.3	75
2	Lab/PN/929C/79 A/V2/09B	Dumper Loader	Day Time	dB(A)Leq	IS 4758	61.2	75
3	Lab/PN/929C/79 A/V2/09C	Jack Hammer Drill Machine	Day Time	dB(A)Leq	IS 4758	63.1	75
4	Lab/PN/929C/79 A/V2/09D	Near Excavator	Day Time	dB(A)Leq	IS 4758	60.9	75

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

Sachi
Analyzed By
Sachi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/930C/79B/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.32	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO3	118.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	28.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	37.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.19	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.25	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	21.57	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	211.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	142.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

AB Patel

Analyzed By
Aarmi Patel



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/930C/79B/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.23	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

AB Patel

Analyzed By
Aarmi Patel



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/930C/79B/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

A.B. Patel

Analyzed By
Aarmi Patel



P.B. Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/02

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date : 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/930C/79B/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

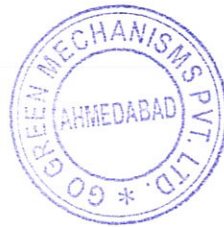
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.12	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO3	163.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	29.26	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.19	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.20	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	22.80	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	249.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	152.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

AB Patel

Analyzed By
Aarmi Patel



P.B. Patel

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/930C/79B/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

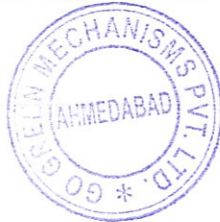
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.99	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Aarmy

Analyzed By
Aarmi Patel



P.B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/02A

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/930C/79B/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

AB Patel

Analyzed By
Aarmi Patel



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/930C/79B/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/930C/79B/V2/03	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Sampling Room	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.49	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	14.61	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	21.24	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	10.06	µg/m ³	IS 5182- Part 9	100
6	Ammonia (NH ₃)	7.18	µg/Nm ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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


Analyzed By
Aarmi Patel




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/930C/79B/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/930C/79B/V2/03	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Sampling Room	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m ³	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	

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

AB Patel

Analyzed By
Aarmi Patel



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/930C/79B/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

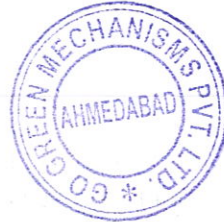
Lab ID:	Lab/PN/930C/79B/V2/04	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Dumping Area	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.76	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	12.43	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	20.80	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	11.31	µg/m ³	IS 5182- Part 9	100
6	Ammonia (NH ₃)	8.33	µg/Nm ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

AB Patel

Analyzed By
Aarmi Patel



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/930C/79B/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

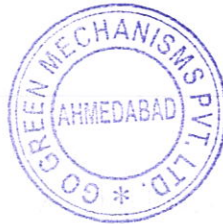
Lab ID:	Lab/PN/930C/79B/V2/04	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Dumping Area	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	

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

Aarmi Patel

Analyzed By
Aarmi Patel



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 05/08/2023

Sample By Laboratory Representative

Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/930C/79 B/V2/05A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	58.1	75
2	Lab/PN/930C/79 B/V2/05B	Near Dumping Area	Day Time	dB(A)Leq	IS 4758	62.5	75

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

AB Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931C/79C/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/931C/79C/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.29	-	IS 3025-Part 11	6.5 -8.5	No relaxation
2	Alkalinity as CaCO ₃	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	36.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.77	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	17.25	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	240.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	149.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per Is 10500

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

P. B. Patel

Analyzed By
Aarmi Patel



P. B. Patel

Authorized Signatory
Payal Patel

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Report Number: GGMPL/PN/931C/79C/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/931C/79C/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.14	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

A.B. Patel

Analyzed By
Aarmi Patel



P.B. Patel

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/931C/79C/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/931C/79C/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per Is 10500

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

AB Patel

Analyzed By
Aarmi Patel



P. B. Patel

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/931C/79C/V2/02

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/931C/79C/V2/02	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Pit Office	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.37	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.17	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

A.B.Patel
Analyzed By
Aarmi Patel



P.B.Patel
Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/931C/79C/V2/02

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)




SAMPLE DETAILS

Lab ID:	Lab/PN/931C/79C/V2/02	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	Near Pit Office	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	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/931C/79C/V2/03

Reporting Date: 15/08/2023

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



TC-7073


SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative


Sampling Date: 05/08/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/931C/79C/V2/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	58.3	75

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


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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/932C/79D/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	North Railway Siding Office	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.26	-	IS 3025-Part 11	6.5 -8.5	No relaxation
2	Alkalinity as CaCO ₃	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.33	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.77	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.00	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	245.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	159.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

AB Patel

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Payal Patel

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Report Number: GGMP/ PN/932C/79D/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	North Railway Siding Office	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.60	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/932C/79D/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	North Railway Siding Office	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

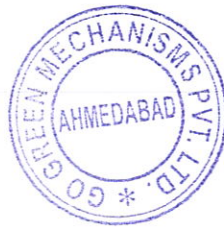
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

ABPatel

Analyzed By
Aarmi Patel



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/932C/79D/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	End of North Railway Siding	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.34	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO ₃	177.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	54.51	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	47.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.39	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.35	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	305.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	210.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

A B Patel

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Report Number: GGMP/L/PN/932C/79D/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	End of North Railway Siding	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.49	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/932C/79D/V2/02A

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	End of North Railway Siding	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

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Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/03	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	North Railway Siding Office	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.78	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	11.35	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	18.57	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	BQL (QL=10)	µg/m ³	IS 5182- Part 9	100
6	Ammonia (NH ₃)	BQL (QL=5)	µg/Nm ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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


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Aarmi Patel




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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/932C/79D/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/03	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	North Railway Siding Office	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMP/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMP/SOP/MP/01:2020	NS

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

Aarmi Patel

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Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/932C/79D/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/04	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	End of North Railway Siding	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.68	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.94	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.18	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	2.81	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

AB Patel

Analyzed By
Aarmi Patel

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Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/932C/79D/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/932C/79D/V2/04	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	End of North Railway Siding	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m ³	USEPA Method IO 3.4	1
15	Wind Speed	5.0	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/932C/79D/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 05/08/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/932C/79 D/V2/05A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	61.2	75
2	Lab/PN/932C/79 D/V2/05B	End Of North Railway Siding	Day Time	dB(A)Leq	IS 4758	59.8	75

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/933C/79E/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	South Railway Siding Office (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMP/ WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

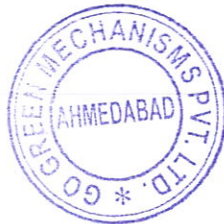
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.38	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	87.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	24.85	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	29.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.04	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	13.50	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	258.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	128.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	18.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Sachi
Analyzed By
Sachi Patel



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933C/79E/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	South Railway Siding Office (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.81	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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Report Number: GGMPL/PN/933C/79E/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/01	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	South Railway Siding Office (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933C/79E/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	End of South Railway Siding (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.46	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	112.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	34.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	43.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.39	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	13.70	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	256.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	137.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	17.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933C/79E/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	End of South Railway Siding (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.79	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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Sachi Patel



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933C/79E/V2/02A

Reporting Date : 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/02	Sampling Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	08/08/2023
Sample Type:	Water	Analysis Start Date:	09/08/2023
Sample Description:	End of South Railway Siding (GW)	Analysis End Date:	16/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

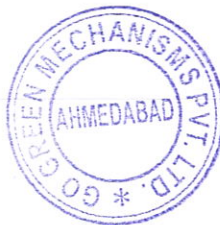
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933C/79E/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



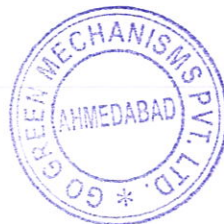
SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/03	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	South Railway Siding Office	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.52	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)	13.18	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.93	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.00	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/933C/79E/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/03	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	South Railway Siding Office	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMP/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m ³	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMP/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/933C/79E/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/04	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	End of South Railway Siding	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.45	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)	13.29	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.78	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.94	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2/04	Sampling Start Date:	05/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	08/08/2023
Sample Description:	End of South Railway Siding	Analysis start- End Date:	09/08/2023-16/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 16/08/2023

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 05/08/2023

05/08/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/933C/79 E/V2/05A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	61.3	75
2	Lab/PN/933C/79 E/V2/05B	End of South Railway Office	Day Time	dB(A)Leq	IS 4758	60.5	75

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