

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/01

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 18/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Waste Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	17/08/2023
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	7.43	-	IS 3025- Part 11	-
2	Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	75.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	23.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.42	mg/L	APHA 23rd Edn 3120 B	-

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

Sachi

Analyzed By
Sachi Patel



P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/02

Reporting Date : 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Office Open Dug Well(GW)	Analysis End Date:	17/08/2023
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 CaCO ₃	98.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	41.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.27	mg/L	APHA 23rd Edn 4500 F D	1.0	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	23.21	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	282.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	167.00	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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Page No : 1/2

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SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Office Open Dug Well(GW)	Analysis End Date:	17/08/2023
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	2.29	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/924C/77A/V2/02A

Reporting Date : 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Office Open Dug Well(GW)	Analysis End Date:	17/08/2023
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

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M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/03	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Sitapatere Village Open Dugwell (GW)	Analysis End Date:	17/08/2023
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	7.49	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	116.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	27.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.17	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.59	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	234.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	163.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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Reporting Date : 18/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/03	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Sitapatore Village Open Dugwell (GW)	Analysis End Date:	17/08/2023
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	2.81	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

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SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/03	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Sitapatore Village Open Dugwell (GW)	Analysis End Date:	17/08/2023
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

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Reporting Date : 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/04	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Premises Borewell Water (GW)	Analysis End Date:	17/08/2023
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	7.52	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.13	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	14.79	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	239.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	182.00	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

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Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/04	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Premises Borewell Water (GW)	Analysis End Date:	17/08/2023
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	2.86	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

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Analyzed By
Sachi Patel



P.B. Patel

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/04A

Reporting Date : 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/04	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Premises Borewell Water (GW)	Analysis End Date:	17/08/2023
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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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/924C/77A/V2/05

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/05	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	08/08/2023-17/08/2023
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)	65.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.06	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)	1.13	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	28	°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/924C/77A/V2/05

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)




SAMPLE DETAILS


Lab ID:	Lab/PN/924C/77A/V2/05	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Office	Analysis start- End Date:	08/08/2023-17/08/2023
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	%	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/924C/77A/V2/06

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/06	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	08/08/2023-17/08/2023
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)	67.32	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.81	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.63	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)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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Report Number : GGMPL/PN/924C/77A/V2/06

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/06	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Pit	Analysis start- End Date:	08/08/2023-17/08/2023
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/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/924C/77A/V2/07

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/07	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Dump	Analysis start- End Date:	08/08/2023-17/08/2023
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)	68.93	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.26	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)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	27	°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/924C/77A/V2/07

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/07	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Dump	Analysis start- End Date:	08/08/2023-17/08/2023
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	53	%	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/924C/77A/V2/08

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/08	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	08/08/2023-17/08/2023
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)	64.97	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)	12.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	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

Sachi
Analyzed By
Sachi Patel



P.B. Patel
Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/924C/77A/V2/08

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/924C/77A/V2/08	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	08/08/2023-17/08/2023
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	%	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/09

Reporting Date: 18/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 04/08/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/924C/77 A/V2/09A	Nr Office Premises	Day Time	dB(A)Leq	IS 4758	58.2	75
2	Lab/PN/924C/77 A/V2/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	63.5	75
3	Lab/PN/924C/77 A/V2/09C	Drill Machine	Day Time	dB(A)Leq	IS 4758	68.1	75
4	Lab/PN/924C/77 A/V2/09D	Nr Excavater	Day Time	dB(A)Leq	IS 4758	65.2	75

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

Sachi

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/925C/77B/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Open Dugwell Water Supply (GW)	Analysis End Date:	14/08/2023
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	7.28	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	88.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	2	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.50	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	39.64	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	286.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	154.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By
Krima Solanki



Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/925C/77B/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Open Dugwell Water Supply (GW)	Analysis End Date:	14/08/2023
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	2.8	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	3.95	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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Report Number: GGMPL/PN/925C/77B/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/925C/77B/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Open Dugwell Water Supply (GW)	Analysis End Date:	14/08/2023
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/925C/77B/V2/02

Reporting Date: 16/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/925C/77B/V2/02	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Haul Road	Analysis start- End Date:	08/08/2023-14/08/2023
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)	62.49	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)	11.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.10	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)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°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/925C/77B/V2/02

Reporting Date: 16/08/2023

M/s Moil Limited

Sitapore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/925C/77B/V2/02	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Haul Road	Analysis start- End Date:	08/08/2023-14/08/2023
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	82	%	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/925C/77B/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

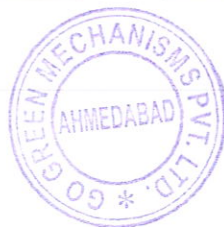
Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 04/08/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/925C/77 B/V2/03	Haul Road	Day Time	dB(A)Leq	IS 4758	58.3	75

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/01

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 16/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Sukali Village Borewell (GW)	Analysis End Date:	14/08/2023
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	7.36	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	27.25	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	68.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	2	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	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	28.76	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	268.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	142.00	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

Analyzed By
Krima Solanki



Authorized Signatory
Manish Kumawat

Page No : 1/2

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Head Office & Lab

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/01

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Sukali Village Borewell (GW)	Analysis End Date:	14/08/2023
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	1.69	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.95	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

Krisha

Analyzed By
Krisha Solanki



Manish

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Sukali Village Borewell (GW)	Analysis End Date:	14/08/2023
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

Analyzed By
Krima Solanki



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/02

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 16/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Near Pit No-5 Water Supply (GW)	Analysis End Date:	14/08/2023
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	7.15	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	156.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	62.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	2	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.38	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.93	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	22.59	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	298.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	172.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	19.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By
Krima Solanki



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/02

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 16/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Near Pit No-5 Water Supply (GW)	Analysis End Date:	14/08/2023
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	1.87	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	5.65	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/02A

Reporting Date : 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	Near Pit No-5 Water Supply (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

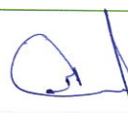
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500.

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



Analyzed By
Krima Solanki



Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/03

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 16/08/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/03	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Waste Water	Analysis Start Date:	08/08/2023
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	14/08/2023
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	7.38	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	56.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.5	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	26	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.112	mg/L	APHA 23rd Edn 3120 B	2

Norms as per CCA.

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

Analyzed By
Krima Solanki



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/926C/78A/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/04	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Pit No. 2	Analysis start- End Date:	08/08/2023-14/08/2023
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)	59.88	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.52	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.84	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	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)	1.10	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Krma Solanki



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Report Number : GGMPL/PN/926C/78A/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/04	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Pit No. 2	Analysis start- End Date:	08/08/2023-14/08/2023
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	82	%	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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Krma Solanki



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/926C/78A/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/05	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Sukali Village	Analysis start- End Date:	08/08/2023-14/08/2023
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)	57.04	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.74	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.32	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	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By
Krma Solanki



Authorized Signatory
Manish Kumawat

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Reporting Date: 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/05	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Sukali Village	Analysis start- End Date:	08/08/2023-14/08/2023
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	82	%	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

Krisha

Analyzed By
Krisha Solanki



Manish

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/926C/78A/V2/06

Reporting Date: 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/06	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Haul Road	Analysis start- End Date:	08/08/2023-14/08/2023
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)	61.34	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)	11.01	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	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)	1.11696	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By
Krma Solanki



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Manish Kumawat

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Report Number : GGMPL/PN/926C/78A/V2/06

Reporting Date: 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/926C/78A/V2/06	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Haul Road	Analysis start- End Date:	08/08/2023-14/08/2023
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	82	%	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/926C/78A/V2/07

Reporting Date: 16/08/2023

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 04/08/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/926C/78 A/V2/07A	Nr. Pit No. 2	Day Time	dB(A)Leq	IS 4758	56.8	75
2	Lab/PN/926C/78 A/V2/07B	Nr. Sukali Village	Day Time	dB(A)Leq	IS 4758	60.3	75
3	Lab/PN/926C/78 A/V2/07C	Haul Road	Day Time	dB(A)Leq	IS 4758	59.3	75

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