

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426 Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/929C/79A/V2/01 M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampl Sampl Sampl	e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/929C Laboratory R Water Open Dugwe 3.5L Satisfactory	epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27 Sealed		pecification:
Sr.No	Paramet	ters	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.46	a i	IS 3025-Part 11		6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3		124.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		41.68	mg/L	APHA 23rd Edn 3500 Ca E	3	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	В	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		12.84	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	S	309.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	aCO3	166.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Soli	ids (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

Sample Sample Sample	Drawn By:	Lab/PN/929C, Laboratory Re Water Open Dugwel 3.5L Satisfactory	epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27A Sealed	S	pecification:
Sr.No	Paramet	ters	Results	Unit	Test Method	A	L	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	8 B 4	5	No Relaxation

AL & PL As Per IS 10500

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AN Analyzed By Authorized Signatory Sachi Patel Manish Kumawat AHMEDAB Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/929C/79A/V2/01A M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P) Reporting Date : 21/08/2023

SAMPLE DETAILS

Sample Sample Sample	Drawn By:	Lab/PN/929C/ Laboratory Re Water Open Dugwell 3.5L Satisfactory	presentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27 Sealed	'A	Specification:
Sr.No	Paramete	ers*	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/929C/79A/V2/02 M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sample Sample Sample Sample	LabLab/PN/929C/79A/V2/02Sample Drawn By:Laboratory RepresentativeSample Type:WaterSample Description:Mine Discharge Water Block No (WW)Sample Quantity:3.5LSample Condition:Satisfactory		. A-B Pit	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27A Sealed		
Sr.No	Paramet	ers	Results	Unit	Test Method	Norm	
1	pH at 25 °C		7.36		IS 3025- Part 11		
2	Total Suspended Soli	ds	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 De	mand	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 o	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

Such Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

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SAMPLE DETAILS

Sampl Sampl Sampl	o: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/929C/ Laboratory Re Water Officer Colony 3.5L Satisfactory		N)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27 Sealed		pecification:
Sr.No	Paramet	ters	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 CaCO3		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	5	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	3	30	100
8	Odour		Agreeable	- 11	IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		15.82	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	S	316.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	aCO3	162.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Sol	ids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL As Per IS 10500

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Page No: 2/2

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Laboratory Water	C/79A/V2/03 Representative ny Water Supply (G	W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27A Sealed	Specification:
Sr.No Para	meters	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 Mr	n	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 NO	3 B 45	No Relaxation

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Report Number: GGMPL/PN/929C/79A/V2/03A M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P) Reporting Date : 21/08/2023

Page No: 1/1

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Laboratory I Water	C/79A/V2/03 Representative ny Water Supply	у (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27A Sealed		Specification:
Sr.No Parame	ters*	Results	Unit	Test Method	AL		PL
1 Total Coliform (MPN	V/100ml)	Absent	MPN/100ml	IS 1622	Abs	ent	Absent
2 E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Abs	ent	Absent

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Report Number: GGMPL/PN/929C/79A/V2/04 M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampl Sampl Sampl	o: e Drawn By: e Type: e Description: e Quantity: e Condition:	Water	/79A/V2/04 epresentative Water Supply (GV	V)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27 Sealed		pecification:
Sr.No	Paramet	ters	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 CaCO3		138.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		42.48	mg/L	APHA 23rd Edn 3500 Ca E	5	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 I	3	30	100
8	Odour		Agreeable		IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		12.84	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	S	296.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	aCO3	174.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Sol	ids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

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Page No: 1/2

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SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Laboratory I Water	C/79A/V2/04 Representative r Water Supply (GV	V)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27A Sealed	Specification:
Sr.No Pa	rameters	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 NO	3 B 45	No Relaxation

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Email Id : lab@gogreenmechanisms.com

Reporting Date : 21/08/2023

Absent

Absent

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

SAMPLE DETAILS

E.Coli (MPN/100 ml)

2

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Water	/79A/V2/04 epresentative Water Supply (GW	/)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 19/08/2023 GGMPL/WI/27 Sealed		Specification:
Sr.No Paramet	ers*	Results	Unit	Test Method		AL	PL
1 Total Coliform (MPN	/100ml)	Absent	MPN/100ml	IS 1622		Absent	Absent

MPN/100ml IS 1622

AL & PL As Per IS 10500

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

Absent



Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/929C/79A/V2/05 M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

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

Such' Analyzed By Sachi Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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Report Number : GGMPL/PN/929C/79A/V2/05 M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

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

05/08/2023 06/08/2023 08/08/2023 09/08/2023-19/08/2023 24 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

Analyzed By

Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/929C/79A/V2/06 M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/929C/79A/V2/06 Laboratory Representative Ambient Air Near Guest House Ambient Temperature Satisfactory
 Sampling Start Date:
 05/08/2023

 Sampling End Date:
 06/08/2023

 Sample Receipt Date:
 08/08/2023

 Analysis start- End Date:
 09/08/2023-19/08/2023

 Total Sampling hours:
 24

 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

Analyzed By

Sachi Patel

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Report Number : GGMPL/PN/929C/79A/V2/06 M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

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

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

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Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:
Sample Description:
Env. CondSampling:
Env. CondSample Receipt:

Lab/PN/929C/79A/V2/07 Laboratory Representative Ambient Air Near Tirodi Village Ambient Temperature Satisfactory Sampling Start Date:05/08/2023Sampling End Date:06/08/2023Sample Receipt Date:08/08/2023Analysis start- End Date:09/08/2023-19/08/2023Total Sampling hours:24Env. 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
			1.5.	GGMPL/SOP/AA/60 Issue No.02	
2	Particulate Matter (PM2.5)	32.91	µg/m3	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



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

M/s Moil Limited

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



Reporting Date: 21/08/2023

SAMPLE DETAILS

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

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/929C/79A/V2/08 Laboratory Representative Ambient Air Officer Colony Ambient Temperature Satisfactory Sampling Start Date:05/08/2023Sampling End Date:06/08/2023Sample Receipt Date:08/08/2023Analysis start- End Date:09/08/2023-19/08/2023Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$

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

Analyzed By Sachi Patel

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



Reporting Date: 21/08/2023

SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:
Sample Description:
Env. CondSampling:
Env. CondSample Receipt:

Lab/PN/929C/79A/V2/08 Laboratory Representative Ambient Air Officer Colony Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 05/08/2023 06/08/2023 08/08/2023 09/08/2023-19/08/2023 24 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

Sacl Analyzed By Sachi Patel

Authorized Signatory Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



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/929C/79 A/V2/09A	Nr Officr Permises	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

540

Analyzed By HAN Sachi Patel HMEDAB

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/01 M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:		Lab/PN/930C/79B/V2/01 Laboratory Representative Water Sampling Room Water Supply (GW) 3.5L Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/2 Sealed		Specification:
Sr.No	o Parame	ters	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 I	В	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	В	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeabl	e Agreeable
9	Sulphate		21.57	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	S	211.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	aCO3	142.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Soli	ids (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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Analyzed By Aarmi Patel



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Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/930C/79B/V2/01 M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sample Drawn By:LaboraSample Type:WaterSample Description:SampliSample Quantity:3.5L		Water Sampling Roc	/79B/V2/01 epresentative om Water Supply (GW)	Sampling Date:05/08/2023Sample Receipt Date:08/08/2023Analysis Start Date:09/08/2023Analysis End Date:16/08/2023Sampling Method:GGMPL/WI/2Packing:Sealed		S	pecification:
Sr.No	Paramet	ers	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	0.3	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

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Analyzed By Aarmi Patel



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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: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:		Lab/PN/930C/79B/V2/01 Laboratory Representative Water Sampling Room Water Supply (GW) 3.5L Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27/ Sealed	A	Specification:
Sr.No	Paramete	rs*	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		S	Absent



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

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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



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:		Near Dumping Area Water Supply (GW) 3.5L			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27 Sealed	7A	
C: N							S	pecification:
Sr.N	, and the	ers	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 E		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 Ca	CO3	152.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Solic	is (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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Authorized Signatory Payal 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)



SAMPLE DETAILS

Sample Drawn By: Sample Type: Sample Description: Sample Quantity:		Lab/PN/930C/ Laboratory Re Water Near Dumping 3.5L Satisfactory	· · · · · · · · · · · · · · · · · · ·	bly (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27A Sealed		~
								Specification:
Sr.No	Paramet	ers	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	В	45	No Relaxation

AL & PL As Per IS 10500

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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

Sample Sample Sample	e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/930C/ Laboratory Re Water Near Dumping 3.5L Satisfactory		oly (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27 Sealed	A	Specification:
Sr.No	Paramete	ers*	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/930C/79B/V2/03

M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/930C/79B/V2/03 Laboratory Representative Ambient Air Near Sampling Room Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.49	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.24	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.06	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)	1.09	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	28	°C	GGMPL/SOP/MP/01	NS

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

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/930C/79B/V2/04 Laboratory Representative Ambient Air Near Dumping Area Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

05/08/2023 06/08/202 08/08/2023 09/08/2023-16/08/2023 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.76	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.43	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.80	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	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	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/930C/79B/V2/04

M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/930C/79B/V2/04 Laboratory Representative Ambient Air Near Dumping Area Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 05/08/2023 06/08/202 08/08/2023 09/08/2023-16/08/2023 24 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

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M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	05/08/2023	
Sample By	Laboratory Representative	Sample Description:	Source Noise	

r.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	Near Dumping Area	Day Time	dP(A)Log	10 4750	62 F	75
2 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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:		Laboratory Representative Water Near Pit Office Water Supply (GW) 3.5 L			Sampling Date:05/08/2023Sample Receipt Date:08/08/2023Analysis Start Date:09/08/2023Analysis End Date:16/08/2023Sampling Method:GGMPL/WI/27Packing:Sealed		7A	pecification:
Sr.No	Paramet	ters	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.29	-	IS 3025-Part 11		6.5 -8.5	No relexation
2	Alkalinity as CaCO3		146.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		32.06	mg/L	APHA 23rd Edn 3500 Ca E	3	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	В	30	100
8	Odour		Agreeable		IS 3025 Part-5		Agreeable	e Agreeable
9	Sulphate		17.25	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	S	240.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	aCO3	149.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Soli	ids (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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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

Sample Drawn By:LaboratorySample Type:WaterSample Description:Near Pit OffSample Quantity:3.5 L		Near Pit Office		W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27A Sealed		-
							Spe	ecification:
Sr.No	Paramet	ers	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 relexation

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/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

Sample Description: Sample Quantity:		Lab/PN/931C/79C/V2/01 Laboratory Representative Water Near Pit Office Water Supply (GW) 3.5 L Satisfactory		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27/ Sealed	Ą	a cification.	
							2	Specification:
Sr.No	Paramete	ers*	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



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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

Lab/PN/931C/79C/V2/02 Laboratory Representative Ambient Air Near Pit Office Ambient Temperature Satisfactory Sampling Start Date:05/08/2023Sampling End Date:06/08/2023Sample Receipt Date:08/08/2023Analysis start- End Date:09/08/2023-16/08/2023Total Sampling hours:24Env. 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

PBW HAN Analyzed By Authorized Signatory Aarmi Patel Payal Patel MFDAE Page No: 1/2 *

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



Reporting Date: 16/08/2023

SAMPLE DETAILS

Lab/PN/931C/79C/V2/02
Laboratory Representative
Ambient Air
Near Pit Office
Ambient Temperature
Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 24 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

P. B.P. Analyzed By Authorized Signatory Aarmi Patel Payal Patel *

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931C/79C/V2/03

M/s Moil Limited

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



Reporting Date: 15/08/2023

SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	05/08/2023
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No		Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/931C/79 C/V2/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	58.3	75
	0,12,0011						

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

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



Reporting Date : 16/08/2023

SAMPLE DETAILS

Sample Sample Sample	: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/932C/ Laboratory Re Water North Railway 3.5L Satisfactory	presentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27 Sealed	A	Specification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.26	-	IS 3025-Part 11		6.5 -8.5	No relexation
2	Alkalinity as CaCO3		146.00	ma/l	ADHA 23rd Edn 2320 B		200	600

2	Alkalinity as CaCO3	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	Agreeab	le Agreeable
9	Sulphate	23.00	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	245.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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		
	e Drawn By:	Laboratory Re	epresentative		Sample Receipt Date: Analysis Start Date:	08/08/2023 09/08/2023		
1. S.	e Type: e Description:	Water North Railway	/ Siding Office		Analysis End Date:	16/08/2023		
	e Quantity:	3.5L	<u>-</u>		Sampling Method:	GGMPL/WI/27A		
Sample	e Condition:	Satisfactory			Packing:	Sealed		
								Specification:
Sr.No	Paramet	ers	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 4	45	No relexation

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: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Laboratory Water	C/79D/V2/01 Representative ay Siding Office		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27A Sealed	Specification:
Sr.No Parar	neters*	Results	Unit	Test Method	AL	PL
1 Total Coliform (M	PN/100ml)	Absent	MPN/100ml	IS 1622	Abser	nt Absent
2 E.Coli (MPN/100	ml)	Absent	MPN/100ml	IS 1622	Abser	nt 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/932C/79D/V2/02

M/s Moil Limited

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



Reporting Date : 16/08/2023

SAMPLE DETAILS

Lab ID:	Lab/PN/932C/7	'9D/V2/02		Sampling Date:	05/08/2023	
Sample Drawn By:	Laboratory Rep	presentative		Sample Receipt Date:	08/08/2023	
Sample Type:	Water			Analysis Start Date:	09/08/2023	
Sample Description:	End of North R	ailway Siding		Analysis End Date:	16/08/2023	
Sample Quantity:	3.5L			Sampling Method:	GGMPL/WI/27A	
Sample Condition:	Satisfactory			Packing:	Sealed	
						Specification:
Sr.No Pa	rameters	Results	Unit	Test Method	AL	PL
						AL.

1	pH at 25 °C	7.34	-	IS 3025-Part 11	6.5 To 8.	5 Relaxation
2	Alkalinity as CaCO3	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	e Agreeable
9	Sulphate	28.35	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	305.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



45

Relaxation

SAMPLE DETAILS

Lab ID	:	Lab/PN/932C/	79D/V2/02		Sampling Date:	05/08/2023		
Sample	e Drawn By:	Laboratory Re	presentative		Sample Receipt Date:	08/08/2023		
Sample	е Туре:	Water			Analysis Start Date:	09/08/2023	-	-
Sample	e Description:	End of North I	Railway Siding		Analysis End Date:	16/08/2023		
Sample	e Quantity:	3.5L			Sampling Method:	GGMPL/WI/27A		
Sample	e Condition:	Satisfactory			Packing:	Sealed		
								Specification:
Sr.No	Paramet	ers	Results	Unit	Test Method	A	AL	PL
13	Turbidity		1	NTU	APHA 23rd Edn 2130 B	1	L	5
14	Iron as Fe		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	C).3	No Relaxation
15	Manganese as Mn		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	C	0.1	0.3
10	Nitrato		2.40	mall	ADUA 22rd Edn 4E00 NO2	D	15	No

mg/L

16 Nitrate

AL & PL As Per IS 10500

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

2.49

ABPaty

Analyzed By Aarmi Patel



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Page No: 2/2

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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/790	D/V2/02		Sampling Date:	05/08/2023		
Sample Drawn By: Sample Type: Sample Description:	Laboratory Repre Water End of North Rail			Sample Receipt Date: Analysis Start Date: Analysis End Date:	08/08/2023 09/08/2023 16/08/2023		
Sample Quantity: Sample Condition:	3.5L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27A Sealed		
							Specification:
Sr.No Paramete	ers* Re	esults	Unit	Test Method		AL	PL
1 Total Coliform (MPN/	100ml) Ab	osent	MPN/100ml	IS 1622		-	Absent

MPN/100ml IS 1622

2	F Coli (MPN/100 ml)	



AL & PL As Per IS 10500

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

Absent

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

M/s Moil Limited

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



SAMPLE DETAILS

Sample Drawn By:

Sample Description:

Env. Cond.-Sampling:

Sample Type:

Lab ID:

Lab/PN/932C/79D/V2/03 Laboratory Representative Ambient Air North Railway Siding Office Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.78	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)	11.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	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

HB Putt Analyzed By Aarmi Patel

HAA HMEDABAD

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:
Sample Description:
Env. CondSampling:
Env. CondSample Receipt:

Lab/PN/932C/79D/V2/03 Laboratory Representative Ambient Air North Railway Siding Office Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 24 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/932C/79D/V2/04

M/s Moil Limited Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:Lab/PSample Drawn By:LaborSample Type:AmbieSample Description:End oEnv. Cond.-Sampling:AmbieEnv. Cond.-Sample Receipt:Satisfie

Lab/PN/932C/79D/V2/04 Laboratory Representative Ambient Air End of North Railway Siding Ambient Temperature Satisfactory Sampling Start Date:05/08/20Sampling End Date:06/08/20Sample Receipt Date:08/08/20Analysis start- End Date:09/08/20Total Sampling hours:24Env. Cond.-Testing:25±5°C

05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 24 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

ABRIE

Analyzed By Aarmi Patel



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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



SAMPLE DETAILS

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

ABPete

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Report Number: GGMPL/PN/932C/79D/V2/05

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	05/08/2023
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No		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: GGMPL/PN/933C/79E/V2/01

M/s Moil Limited

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



Reporting Date : 16/08/2023

SAMPLE DETAILS

Lab ID:	Lab/PN/93	3C/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 Raily	vay Siding Offic	e (GW)	Analysis End Date:	16/08/2023	
Sample Quantity:	3.5L			Sampling Method:	GGMPL/WI/27A	
Sample Condition:	Satisfactor	Y		Packing:	Sealed	
<i>*</i>						Specification:
Sr.No Para	meters	Results	Unit	Test Method	AL	PL
1		7.00		IC 2025 D-+ 11	6.5.4	NO NO

1	pH at 25 °C	7.38	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	258.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

Analyzed By Sachi Patel



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M/s Moil Limited

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



45

Relaxation

Reporting Date : 16/08/2023

SAMPLE DETAILS

Lab ID:		Lab/PN/933C/	/79E/V2/01		Sampling Date:	05/08/2023	
Sample Drawn By: Laboratory Representative Sample Type: Water				Sample Receipt Date: Analysis Start Date:	08/08/2023 09/08/2023		
· · · · ·	Description:	100 M 100 M	/ Siding Office (G	W)	Analysis End Date:	16/08/2023	
	Quantity:	3.5L			Sampling Method:	GGMPL/WI/27A	
Sample	Condition:	Satisfactory			Packing:	Sealed	
							Specification:
Sr.No	Paramet	ers	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 I	Manganese as Mn		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16 1	Nitrate		3.81	ma/l	APHA 23rd Edn 4500 NO3	R 45	No

mg/L

AL & PL As Per IS 10500

Nitrate

16

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

3.81

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CERTIFICATE OF ANALYSIS

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	C/79E/V2/01		Sampling Date:	05/08/2023	
Sample Drawn By:		epresentative		Sample Receipt Date:	08/08/2023	· · · ·
Sample Type:	Water			Analysis Start Date:	09/08/2023	
Sample Description:	South Railwa	y 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 Para	meters*	Results	Unit	Test Method	AL	PL

Sr.No	Parameters*	Results	Unit	lest 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



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

Sach Analyzed By Sachi Patel



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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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



Reporting Date : 16/08/2023

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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	256.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

M/s Moil Limited

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



0.1

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Reporting Date : 16/08/2023

SAMPLE DETAILS

Manganese as Mn

Nitrate

15

16

Lab ID:	Lab/PN/933C	/79E/V2/02		Sampling Date:	05/08/2023	
Sample Drawn By:	Laboratory R	epresentative		Sample Receipt Date:	08/08/2023	
Sample Type:	Water			Analysis Start Date:	09/08/2023	
Sample Description:	End of South	Railway Siding (G	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

mg/L

mg/L

APHA 23rd Edn 3120 B

APHA 23rd Edn 4500 NO3 B

BQL (QL=0.05)

3.79

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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Page No: 2/2

Relaxation

Relaxation

0.3 No

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Reporting Date : 16/08/2023

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

SAMPLE DETAILS

Sa Sa Sa	ample ample ample): e Drawn By: e Type: e Description: e Quantity: e Condition:	Water	/79E/V2/02 epresentative Railway Siding	(GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	05/08/2023 08/08/2023 09/08/2023 16/08/2023 GGMPL/WI/27 Sealed	A	
								-	Specification:
S	r.No	Paramet	ers*	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

M/s Moil Limited Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID: Lab/PN/933C/79E/V2/03 Sample Drawn By: Laboratory Representative Sample Type: Ambient Air South Railway Siding Office Sample Description: Env. Cond.-Sampling: Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 05/08/2023 06/08/2023 Sampling End Date: 08/08/2023 Sample Receipt Date: Analysis start- End Date: 09/08/2023-16/08/2023 Total Sampling hours: 24 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 : GGMPL/PN/933C/79E/V2/03

M/s Moil Limited Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:
Sample Description:
Env. CondSampling:
Env. CondSample Receipt:

Lab/PN/933C/79E/V2/03 Laboratory Representative Ambient Air South Railway Siding Office Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: 24 Env. Cond.-Testing:

05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933C/79E/V2/04

M/s Moil Limited Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/933C/79E/V2
Sample Drawn By:	Laboratory Represen
Sample Type:	Ambient Air
Sample Description:	End of South Railway
Env. CondSampling:	Ambient Temperatur
Env. CondSample Receipt:	Satisfactory

2/04 ntative y Siding re

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: 24 Env. Cond.-Testing:

05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 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

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

M/s Moil Limited Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:
Sample Description:
Env. CondSampling:
Env. CondSample Receipt:

Lab/PN/933C/79E/V2/04 Laboratory Representative Ambient Air End of South Railway Siding Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 05/08/2023 06/08/2023 08/08/2023 09/08/2023-16/08/2023 24 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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933C/79E/V2/05

M/s Moil Limited

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



Reporting Date: 16/08/2023

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/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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