

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/1990C/79A/V3/01

M/s Moil Limited

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



SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Lab/PN/1990 Laboratory R Water Open Dugwe 4 L Satisfactory	epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27 Sealed		pecification:
Sr.No	Paramet	ters	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.28	-	IS 3025-Part 11		6.5-8.5	No Relaxation
2	Alkalinity as CaCO3		172.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		48.89	mg/L	APHA 23rd Edn 3500 Ca E	3	75	200
4	Chloride		54.98	mg/L	IS 3025 -Part 32		250	1000
5	Colour		BQL (QL=1)	CU	IS 3025 Part-4		5	15
6	Fluoride (F)		0.23	mg/L	APHA 23rd Edn 4500 F D		1	1.5
7	Magnesium as Mg		17.01	mg/L	APHA 23rd Edn 3500 Mg E	3	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		35.51	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solids	S	318.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	ICO3	192.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Soli	ds (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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M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:Lab/PN/1990C/79A/V3/01Sample Drawn By:Laboratory RepresentativeSample Type:WaterSample Description:Open Dugwell No.3 (GW)Sample Quantity:4 LSample Condition:Satisfactory		epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 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		3.84	mg/L	APHA 23rd Edn 4500 NO3	B 45	No Relaxation

AL & PL As Per IS 10500.

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Reporting Date : 09/01/2024

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/01A

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: Sample Quantity: Sample Condition:	Laboratory I Water	OC/79A/V3/01 Representative ell No.3 (GW)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27 Sealed	7A	Specification:
Sr.No Parame	ters*	Results	Unit	Test Method		AL	PL
1 Total Coliform (MPN	l/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/1990C/79A/V3/02

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: Sample Quantity:	Laborator Water Mine Discl (WW) 3.5L	990C/79A/V3/02 y Representative harge Water Block N	lo. A-B Pit	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27A
Sample Condition:	Satisfacto	ry		Packing:	Sealed
Sr.No P	arameters	Results	Unit	Test Method	Norm
1 pH at 25 °C		7.42		IS 3025- Part 11	
2 Total Suspend	led Solids	28.00	mg/L	APHA 23rd Edn 2540 D	
3 Oil and Greas	e	BQL (QL=2)	mg/L	IS 3025- Part 39	
4 Chemical Oxy	gen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	

mg/L

mg/L

mg/L

IS 3025- Part 38

IS 3025- Part 44

APHA 23rd Edn 3120 B

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

4.80

28

BQL (QL=0.1)

Analyzed By

Nidhi Shah

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7

Dissolved Oxygen

Manganese as Mn

BOD at 27 o C for 3 days

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/03

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:	Laboratory R Water	C/79A/V3/03 epresentative y Water Supply (G	W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27 Sealed		pecification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.36	-	IS 3025-Part 11		6.5-8.5	No Relaxation
2	Alkalinity as CaCO3		168.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		58.52	mg/L	APHA 23rd Edn 3500 Ca E	3	250	1000
4	Chloride		56.98	mg/L	IS 3025 -Part 32		250	1000
5	Colour		BQL (QL=1)	CU	IS 3025 Part-4		5	15
6	Fluoride (F)		0.30	mg/L	APHA 23rd Edn 4500 F D		1	1.5
7	Magnesium as Mg		12.63	mg/L	APHA 23rd Edn 3500 Mg I	3	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	e Agreeable
9	Sulphate		38.25	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solids	s	328.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	ICO3	194.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Soli	ds (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/03

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



45

Relaxation

SAMPLE DETAILS

Lab ID	:	Lab/PN/1990	C/79A/V3/03		Sampling Date:	28/12/2023		
	e Drawn By: e Type:	Laboratory Re Water	epresentative		Sample Receipt Date: Analysis Start Date:	01/01/2024 02/01/2024		
Sample	e Description:	Officer Colony	y Water Supply (G	W)	Analysis End Date:	08/01/2024		
Sample	e Quantity:	4 L			Sampling Method:	GGMPL/WI/27	Ά	
Sample	e Condition:	Satisfactory			Packing:	Sealed		
								Specification:
Sr.No	Parame	eters	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
10	Nitwata		F 20		ADUA 22-4 Ed. 4500 NO	D	45	No

mg/L

AL & PL As Per IS 10500.

Nitrate

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5.28

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Report Number: GGMPL/PN/1990C/79A/V3/03A

M/s Moil Limited

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

SAMPLE DETAILS

Sample Sample Sample	e Drawn By:	Lab/PN/1990C Laboratory Re Water Officer Colony 4 L Satisfactory	A (2 A)	W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27 Sealed		Specification:
Sr.No	Paramete	rs*	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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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/04 M/s Moil Limited

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



SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Water	C/79A/V3/04 epresentative Water Supply (GV	V)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27 Sealed		pecification:
Sr.No	Paramet	ters	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.36	-	IS 3025-Part 11		6.5-8.5	No Relaxation
2	Alkalinity as CaCO3		155.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		52.90	mg/L	APHA 23rd Edn 3500 Ca E	3	75	200
4	Chloride		59.98	mg/L	IS 3025 -Part 32		250	1000
5	Colour		BQL (QL=1)	CU	IS 3025 Part-4		5	15
6	Fluoride (F)		0.36	mg/L	APHA 23rd Edn 4500 F D		1	1.5
7	Magnesium as Mg		13.12	mg/L	APHA 23rd Edn 3500 Mg I	3	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	e Agreeable
9	Sulphate		36.49	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	S	313.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	ICO3	186.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Soli	ds (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL As Per IS 10500.

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Analyzed By Nidhi Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/04

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



SAMPLE DETAILS

Sample Sample	: e Drawn By: e Type: e Description: e Quantity:	Lab/PN/19900 Laboratory Re Water Staff Quarter 4 L		V)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method:	28/12/2023 01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27A	
Sample	e 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	Manganese as Mn		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate		3.50	mg/L	APHA 23rd Edn 4500 NO3	B 45	No Relaxation

AL & PL As Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/04A

Reporting Date : 09/01/2024

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

SAMPLE DETAILS

Lab ID:	Lab/PN/199	0C/79A/V3/04		Sampling Date:	28/12/2023		
Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Gample Type:WaterGample Description:Staff Quarter Water Supply (GW)Gample Quantity:4 L		Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	01/01/2024 02/01/2024 08/01/2024 GGMPL/WI/27A Sealed			
				5			Specification:
Sr.No Parame	eters*	Results	Unit	Test Method	Al		PL
1 Total Coliform (MP	N/100ml)	Absent	MPN/100ml	IS 1622	At	osent	Absent
2 E.Coli (MPN/100 m	I)	Absent	MPN/100ml	IS 1622	At	osent	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/1990C/79A/V3/05

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/1990C/79A/V3/05 Laboratory Representative Ambient Air Near Mine Office Ambient Temperature Satisfactory Sampling Start Date:28/12/2023Sampling End Date:29/12/2023Sample Receipt Date:01/01/2024Analysis start- End Date:02/01/2024 + 08/01/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.N	p Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.46	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	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)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/05

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/1990C/79A/V3/05 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:

28/12/2023 29/12/2023 01/01/2024 02/01/2024-08/01/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	-
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.7	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/1990C/79A/V3/06 M/s Moil Limited

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



Reporting Date: 09/01/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1990C/79A/V3/06 Laboratory Representative Ambient Air Near Guest House Ambient Temperature Satisfactory Sampling Start Date:28/12/2023Sampling End Date:29/12/2023Sample Receipt Date:01/01/2024Analysis start- End Date:02/01/2024-08/01/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.29	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	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)	0.98	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Report Number : GGMPL/PN/1990C/79A/V3/06

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/1990C/79A/V3/06 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:

28/12/2023 29/12/2023 01/01/2024 02/01/2024-08/01/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.7	m/s	GGMPL/SOP/MP/01:2020	

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/07

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



SAMPLE DETAILS

Sr.

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1990C/79A/V3/07 Laboratory Representative Ambient Air Near Tirodi Village Ambient Temperature Satisfactory Sampling Start Date:28/12/2023Sampling End Date:29/12/2023Sample Receipt Date:01/01/2024Analysis start- End Date:02/01/2024-08/01/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.98	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)	15.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.33	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.88	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)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/07

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. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/1990C/79A/V3/07 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:

28/12/2023 29/12/2023 01/01/2024 02/01/2024-08/01/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.8	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/1990C/79A/V3/08

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/1990C/79A/V3/08 Laboratory Representative Ambient Air Officer Colony Ambient Temperature Satisfactory Sampling Start Date:28/12/2023Sampling End Date:29/12/2023Sample Receipt Date:01/01/2024Analysis start- End Date:02/01/2024-08/01/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.36	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	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)	0.98	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

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Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/08

M/s Moil Limited

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



Reporting Date: 09/01/2024

SAMPLE DETAILS

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

Lab/PN/1990C/79A/V3/08 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:

28/12/2023 29/12/2023 01/01/2024 02/01/2024-08/01/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.9	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/1990C/79A/V3/09

M/s Moil Limited

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



Reporting Date: 09/01/2024

SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	28/12/2023
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1990C/7 9A/V3/09A	Nr office Permises	Day Time	dB(A)Leq	IS 4758	61.5	
2	Lab/PN/1990C/7 9A/V3/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	68.5	
3	Lab/PN/1990C/7 9A/V3/09C	Jack Hammer drill Machine	Day Time	dB(A)Leq	IS 4758	70.2	
4	Lab/PN/1990C/7 9A/V3/09D	Near Excavator	Day Time	dB(A)Leq	IS 4758	71.9	

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Analyzed By Nidhi Shah

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BPL

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/01

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1	991C/79A/V3/01		Sampling Date:	28/12/2023	
Sample Drawn By:		y Representative		Sample Receipt Date:	01/01/2024	
Sample Type:	Water			Analysis Start Date:	02/01/2024	
Sample Description	n: Sampling	Room Water Suppl	ly (GW)	Analysis End Date:	12/01/2024	
Sample Quantity:	3.5L			Sampling Method:	GGMPL/WI/27A	
Sample Condition:	Satisfacto	ry		Packing:	Sealed	
						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL

51.140	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	120.00	mg/L	APHA 23rd Edn 2320 B	200	6000
3	Calcium as Ca	26.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	41.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.23	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	- 1	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.86	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	220.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	145.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & PL As Per IS 10500

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

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Report Number: GGMPL/PN/1991C/79A/V3/01

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/01	Sampling Date:	28/12/2023	
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024	
Sample Type:	Water	Analysis Start Date:	02/01/2024	
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	12/01/2024	
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A	
Sample Condition:	Satisfactory	Packing:	Sealed	
				Specification:
Sr.No Para	neters Results Unit	Test Method	AL	PL

Sr.No	Parameters	Results	Unit	lest 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	2.84	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/1991C/79A/V3/01A

Reporting Date : 13/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID	:	Lab/PN/1991C/79A/V3/01		Sampling Date:	28/12/2023			
Sample	e Drawn By:	Laboratory Re	presentative		Sample Receipt Date: 01/01/2024			
Sample	е Туре:	Water			Analysis Start Date:	02/01/2024		
Sample	e Description:	Sampling Roo	m Water Supply (GW)	Analysis End Date: 12/01/2024			
Sample	e Quantity:	3.5L			Sampling Method:	GGMPL/WI/27	Ά	
Sample	e Condition:	Satisfactory			Packing:	Sealed		
								Specification:
Sr.No	Paramete	rs*	Results	Unit	Test Method		AL	PL
1	Total Coliform (MPN/	100ml)	Absent	MPN/100ml	IS 1622		Absent	Absent
2	E.Coli (MPN/100ml)		Absent	MPN/100ml	IS 1622		Absent	Absent



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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/02 M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/02	Sampling Date:	28/12/2023	
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024	
Sample Type:	Water	Analysis Start Date:	02/01/2024	
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	12/01/2024	
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 CaCO3	117.00	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	50.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.23	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	148.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By

Dishant Patel

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/02 M/s Moil Limited Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/02	Sampling Date:	28/12/2023	
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024	
Sample Type:	Water	Analysis Start Date:	02/01/2024	
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	12/01/2024	
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A	
Sample Condition:	Satisfactory	Packing:	Sealed	
				Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.19	mg/L	APHA 23rd Edn 4500 NO3 B	45	No

AL & PL As Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/02A

Reporting Date : 13/01/2024

Absent

Absent

M/s Moil Limited

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

SAMPLE DETAILS

E.Coli (MPN/100ml)

2

Lab ID:Lab/PN/1991C/7Sample Drawn By:Laboratory RepresentationSample Type:WaterSample Description:Near Dumping ArSample Quantity:3.5LSample Condition:Satisfactory				Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/12/2023 01/01/2024 02/01/2024 12/01/2024 GGMPL/WI/27A Sealed			
								Specification:
Sr.No	Paramete	rs*	Results	Unit	Test Method		AL	PL
1	Total Coliform (MPN/	100ml)	Absent	MPN/100ml	IS 1622		Absent	Absent

MPN/100ml IS 1622

Absent

AL & PL As Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Vin ш AHMEDABAD T 11 d' C 0.9 * Analyzed By Authorized Signatory **Dishant Patel** Payal Patel --- End of Report ---

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/03 M/s Moil Limited

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



Reporting Date: 13/01/2024

SAMPLE DETAILS

Lab ID:

Lab ID:	Lab/PN/1991C/79A/V3/03
Sample Drawn By:	Laboratory Representative
Sample Type:	Ambient Air
Sample Description:	Near Sampling Room
Env. CondSampling:	Ambient Temprature
Env. CondSample Receipt:	Satisfactory

Sampling Start Date: 28/12/2023 Sampling End Date: 29/12/2023 Sample Receipt Date: 01/01/2024 Analysis start- End Date: 02/01/2024-12/01/2024 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	21.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	32.36	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.80	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	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)	1.099	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By **Dishant Patel**

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Authorized Signatory

Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/03

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. CondSampling:			
Env. CondSample Receipt:			

Lab/PN/1991C/79A/V3/03 Laboratory Representative Ambient Air Near Sampling Room Ambient Temprature Satisfactory

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

28/12/2023 29/12/2023 01/01/2024 02/01/2024-12/01/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	752	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By **Dishant Patel**

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/04

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



SAMPLE DETAILS

Sample Drawn By:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Sample Type:

Lab ID:

Lab/PN/1991C/79A/V3/04
Laboratory Representative
Ambient Air
Near Dumping Area
Ambient Temprature
Satisfactory

Sampling Start Date: 28/12/2023 Sampling End Date: 29/12/2023 Sample Receipt Date: 01/01/2024 Analysis start- End Date: 02/01/2024-12/01/2024 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.N	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.52	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02	60
3	Sulphur Dioxide (SO2)	19.14	µg/m3	August 01 IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.72	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	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

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

Analyzed By **Dishant Patel**

HAN C AHMEDAB. 11 *

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/04

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. CondSampling:	
Env. CondSample Receipt:	

Lab/PN/1991C/79A/V3/04 Laboratory Representative Ambient Air Near Dumping Area Ambient Temprature Satisfactory

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

28/12/2023 29/12/2023 01/01/2024 02/01/2024-12/01/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	753	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By **Dishant Patel**

CHAN 111 9 *

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/05

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:	28/12/2023
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1991C/7 9A/V3/05A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	60.8	-
2	Lab/PN/1991C/7 9A/V3/05B	Near Dumping Area	Day Time	dB(A)Leq	IS 4758	64.6	

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit EN AHMEDABAD PBB 11 N . 5 Analyzed By Authorized Signatory C **Dishant Patel** 9* 0 Payal Patel End of Report --

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992C/79A/V3/01

M/s Moil Limited Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1992C/79A/V3/01	Sampling Date:	28/12/2023	
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024	
Sample Type:	Water	Analysis Start Date:	01/01/2024	
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	10/01/2024	
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A	
Sample Condition:	Satisfactory	Packing:	Sealed	
				Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	143	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.5	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	51.5	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.56	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	279	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	171.0	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

11 Analyzed By Rajat Chauhan

PBPU

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992C/79A/V3/01

M/s Moil Limited

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



0.1

45

0.3 No

relaxation

SAMPLE DETAILS

Manganese as Mn

Nitrate

15

16

Lab ID:	Lab/P	N/1992C/79A/V3/01		Sampling Date:	28/12/2023	
Sample Dra	wn By: Labora	atory Representative		Sample Receipt Date:	01/01/2024	
Sample Typ	e: Water	9		Analysis Start Date:	01/01/2024	
Sample Des	cription: Near I	Pit Office Water Supply	(GW)	Analysis End Date:	10/01/2024	
Sample Qua				Sampling Method:	GGMPL/WI/27A	
Sample Con	dition: Satisfa	actory		Packing:	Sealed	
						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	
	Parameters	Results 0.5	Unit NTU	Test Method APHA 23rd Edn 2130 B	AL 1	•
13 Turl			NTU		AL 1 0.3	PL 5

mg/L

mg/L

APHA 23rd Edn 3120 B

APHA 23rd Edn 4500 NO3 B

BQL (QL=0.05)

2.84

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/1992C/79A/V3/01A

Reporting Date : 11/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/199	92C/79A/V3/01		Sampling Date:	28/12/2023	
Sample Drawn By:	Laboratory	Representative		Sample Receipt Date:	01/01/2024	
Sample Type:	Water			Analysis Start Date:	01/01/2024	
Sample Description:	Near Pit Of	fice Water Supply	(GW)	Analysis End Date:	10/01/2024	
Sample Quantity:	3.5 L			Sampling Method:	GGMPL/WI/27A	
Sample Condition:	Satisfactory	/		Packing:	Sealed	
Sumple condition.	outoractory					
Sumple condition.	e de la compactor y					Specification:
	ameters*	Results	Unit	Test Method	AL	
•	ameters*		Unit MPN/100ml	Test Method		

AL & PL as per IS 10500.

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

CHAN PB-P 11 Analyzed By Authorized Signatory Rajat Chauhan Payal Patel of Report

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1992C/79A/V3/02

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: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1992C/79A/V3/02 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:

28/12/2023 01/01/2024 01/01/2024 01/01/2024-10/01/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.75	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.06	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Rajat Chauhan

CHAN AHMEDAR *

Authorized Signatory

Authorized Signatory Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1992C/79A/V3/02

M/s Moil Limited Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/
Sample Drawn By:	Labo
Sample Type:	Amb
Sample Description:	Near
Env. CondSampling:	Amb
Env. CondSample Receipt:	Satis

/PN/1992C/79A/V3/02 oratory Representative pient Air r Pit Office pient Temperature sfactory

Sampling Start Date: 28/12/2023 Sampling End Date: 01/01/2024 Sample Receipt Date: 01/01/2024 Analysis start- End Date: Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

01/01/2024-10/01/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Rajat Chauhan

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CHAA

--- End of Report ---

P.B.PL

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992C/79A/V3/03

M/s Moil Limited Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	28/12/2023
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1992C/7 9A/V3/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	60.3	-
+1							
· · · · ·							

NS=Not Specified, BQL=Below Quantification Limit,QL=	Quantification Limit	
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Analyzed By Rajat Chauhan	110 * CO	Authorized Signatory Payal Patel
	End of Report	

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/01

M/s Moil Limited

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



SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Laboratory R Water	PC/06D/V2/01 epresentative ny siding office (G.N	W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27 Sealed		pecification:
Sr.No	Paramet	ters	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.35	-	IS 3025-Part 11		6.5-8.5	No Relaxation
2	Alkalinity as CaCO3		126	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		28.46	mg/L	APHA 23rd Edn 3500 Ca E	3	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)		0.25	mg/L	APHA 23rd Edn 4500 F D		1	1.5
7	Magnesium as Mg		15.55	mg/L	APHA 23rd Edn 3500 Mg	В	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	e Agreeable
9	Sulphate		22.88	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	S	201	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	aCO3	135	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

Analyzed By Rajat Chauhan

HMEDABAD 5 *

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/01

M/s Moil Limited

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



45

Relaxation

SAMPLE DETAILS

Lab ID	:	Lab/PN/20090	C/06D/V2/01		Sampling Date:	29/12/2023		
	e Drawn By: e Type:	Laboratory Re Water	epresentative		Sample Receipt Date: Analysis Start Date:	02/01/2024 02/01/2024		
Sample	e Description:	South Railway	siding office (G.V	N)	Analysis End Date:	11/01/2024		
Sample	e Quantity:	3.5 L			Sampling Method:	GGMPL/WI/27	A	
Sample	e Condition:	Satisfactory			Packing:	Sealed		
							S	Specification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
13	Turbidity		0.6	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	Nitrato		1 51	ma/l	ADHA 22rd Edn 4500 NO2	D	15	No

mg/L

AL & PL as per IS 10500.

Nitrate

16

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

1.51

AA PBR HMEDABAD Analyzed By Authorized Signatory Rajat Chauhan Payal Patel * End of Report

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Reporting Date : 12/01/2024

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/01A

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID):	Lab/PN/20090	C/06D/V2/01		Sampling Date:	29/12/2023		
Sampl	e Drawn By:	Laboratory Re	presentative		Sample Receipt Date:	02/01/2024		
Sampl	e Type:	Water			Analysis Start Date:	02/01/2024		
Sampl	e Description:	South Railway	siding office (G.W	V)	Analysis End Date:	11/01/2024		
Sampl	e Quantity:	3.5 L			Sampling Method:	GGMPL/WI/27	A	
Sample	e Condition:	Satisfactory			Packing:	Sealed		
							S	pecification:
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			Absent

AL & PL as per IS 10500.

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

HMEDAB 11 C 5 Analyzed By Rajat Chauhan

--- End of Report ---

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PBRI

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/02

M/s Moil Limited

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



SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Laboratory R Water	C/06D/V2/02 epresentative Railway Siding ((0	5.W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27 Sealed		pecification:
Sr.No	p Paramet	ters	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.32	-	IS 3025-Part 11		6.5-8.5	No Relaxation
2	Alkalinity as CaCO3		145	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		35.27	mg/L	APHA 23rd Edn 3500 Ca E	3	75	200
4	Chloride		61.98	mg/L	IS 3025 -Part 32		250	1000
5	Colour		BQL (QL=1)	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		19.44	mg/L	APHA 23rd Edn 3500 Mg E	3	30	100
8	Odour		Agreeable	-	IS 3025 Part-5	7-21	Agreeable	e Agreeable
9	Sulphate		28.6	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solids	s	252	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	iCO3	168	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Soli	ds (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL as per IS 10500.

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CHAA PBR Analyzed By Authorized Signatory Rajat Chauhan Payal Patel Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/02

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID):	Lab/PN/20090	C/06D/V2/02		Sampling Date:	29/12/2023		
Sample	e Drawn By:	Laboratory Re	Laboratory Representative		Sample Receipt Date:	02/01/2024		
Sample	е Туре:	Water			Analysis Start Date:	02/01/2024		
Sample	e Description:	End of South	End of South Railway Siding ((G.W)		Analysis End Date:	11/01/2024		
Sample	e Quantity:	3.5 L			Sampling Method:	GGMPL/WI/27A	4	
Sample	e Condition:	Satisfactory			Packing:	Sealed		
								Specification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
. 13	Turbidity		0.8	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

mg/L

AL & PL as per IS 10500.

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

1.82

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No

Relaxation

45

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16

Nitrate

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Email Id : lab@gogreenmechanisms.com

Reporting Date : 12/01/2024

CERTIFICATE OF ANALYSIS

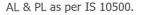
Report Number: GGMPL/PN/2009C/06D/V2/02A

M/s Moil Limited

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

SAMPLE DETAILS

Sample Sample Sample	e Drawn By:	Lab/PN/20090 Laboratory Re Water End of South 3.5 L Satisfactory		i.W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27 Sealed		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		-	Absent



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

HAN 5 P.B.P. HMEDARA Analyzed By Authorized Signatory Rajat Chauhan Payal Patel End of Report ---

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Report Number : GGMPL/PN/2009C/06D/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. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2009C/06D/V2/03 Laboratory Representative Ambient Air South Railway Siding Office Ambient Temperature Satisfactory

Sampling Start Date: 29/12/2023 Sampling End Date: 30/12/2023 Sample Receipt Date: 02/01/2024 02/01/2024-11/01/2024 Analysis start- End Date: Total Sampling hours: 24 Env. Cond.-Testing: 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.41	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)	13.83	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.51	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.06	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Rajat Chauhan

*

Authorized Signatory Payal Patel

Page No: 1/2

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Report Number : GGMPL/PN/2009C/06D/V2/03

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06
Sample Drawn By:	Laboratory Repre
Sample Type:	Ambient Air
Sample Description:	South Railway Sic
Env. CondSampling:	Ambient Tempera
Env. CondSample Receipt:	Satisfactory

6D/V2/03 esentative ding Office ature

Sampling Start Date: 29/12/2023 Sampling End Date: 30/12/2023 Sample Receipt Date: 02/01/2024 Analysis start- End Date: 02/01/2024-11/01/2024 Total Sampling hours: 24 Env. Cond.-Testing: 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Rajat Chauhan

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--- End of Report ---

Authorized Signatory

Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2009C/06D/V2/04

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/20090
Sample Drawn By:	Laboratory Re
Sample Type:	Ambient Air
Sample Description:	End of South
Env. CondSampling:	Ambient Tem
Env. CondSample Receipt:	Satisfactory

C/06D/V2/04 epresentative Railway Siding perature

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

29/12/2023 30/12/2023 02/01/2024 02/01/2024-11/01/2024 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.16	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)	14.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.54	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.47	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

5 A PBRS Analyzed By Authorized Signatory AHMEDARA Rajat Chauhan Payal Patel Page No: 1/2

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Report Number : GGMPL/PN/2009C/06D/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. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2009C/06D/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: 29/12/2023 30/12/2023 02/01/2024 02/01/2024-11/01/2024 24 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Rajat Chauhan

11 AHMEDAR 9 * End of Report

Authorized Signatory Payal Patel

Page No: 2/2

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Report Number: GGMPL/PN/2009C/06D/V2/05

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	29/12/2023	
Sample By	Laboratory Representative	Sample Description:	Source Noise	· · · · · · · · · · · · · · · · · · ·

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2009C/0 6D/V2/05A	South Railway Siding Office	9:20	dB(A)Leq	IS 4758	62.3	-
2	Lab/PN/2009C/0 6D/V2/05B	End of south railway siding	9:50	dB(A)Leq	IS 4758	58.9	

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

Rajat Chauhan

Authorized Signatory Payal Patel

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0 X End of Report Reporting Date: 12/01/2024



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Report Number: GGMPL/PN/2010C/06S/V2/01

M/s Moil Limited

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



200

NS

600

NS

SAMPLE DETAILS

Sample Sample Sample	: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/20100 Laboratory Re Water North Railway 3.5L Satisfactory		')	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis Erid Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27 Sealed	7A	pecification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.23	-	IS 3025-Part 11		6.5-8.5	No Relaxation
2	Alkalinity as CaCO3		135.0	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		38.1	mg/L	APHA 23rd Edn 3500 Ca B	5	75	200
4	Chloride		81.97	mg/L	IS 3025 -Part 32		250	1000
5	Colour		BQL (QL=1)	CU	IS 3025 Part-4		5	15
6	Fluoride (F)		0.32	mg/L	APHA 23rd Edn 4500 F D		1	1.5
7	Magnesium as Mg		23.57	mg/L	APHA 23rd Edn 3500 Mg E	3	30	100
8	Odour		Agreeable		IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		29.97	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solids	5	292	mg/L	APHA 23rd Edn 2540 C		500	2000

mg/L

mg/L

AL & PL as per IS 10500.

11

12

Total Hardness as CaCO3

Total Suspended Solids (TSS)

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

192

BQL (QL=5)

AA BRD Analyzed By Authorized Signatory Rajat Chauhan Payal Patel 5 * Page No: 1/2

APHA 23rd Edn 2340 C

APHA 23rd Edn 2540 D

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/01

M/s Moil Limited

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



0.1

45

0.3 No

Relaxation

SAMPLE DETAILS

Manganese as Mn

Nitrate

15

16

Sample	: e Drawn By: e Type: e Description:	Lab/PN/2010C Laboratory Re Water		γ.	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	29/12/2023 02/01/2024 02/01/2024 11/01/2024		
Sample	e Quantity: e Condition:	3.5L Satisfactory	siding office (OW)	Sampling Method: Packing:	GGMPL/WI/27A Sealed		
							Specification:	
Sr.No	Paramet	ers	Results	Unit	Test Method	AL	PL	
13	Turbidity		0.6	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	

mg/L

mg/L

APHA 23rd Edn 3120 B

APHA 23rd Edn 4500 NO3 B

BQL (QL=0.05)

1.59

AL & PL as per IS 10500.

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

CHAN MEDABAD PBRS Analyzed By Authorized Signatory * Rajat Chauhan Payal Patel --- End of Report ---

Page No: 2/2

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

Reporting Date : 12/01/2024

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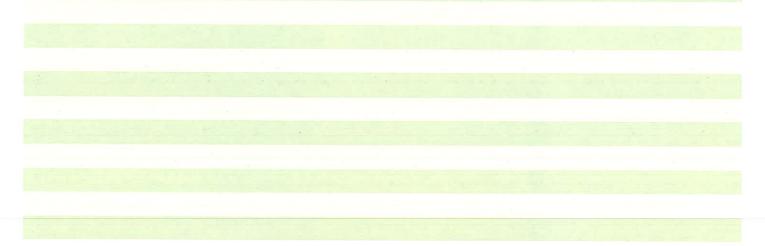
Report Number: GGMPL/PN/2010C/06S/V2/01A

M/s Moil Limited

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

SAMPLE DETAILS

Sample Drawn By:LaSample Type:WSample Description:NSample Quantity:3.		Lab/PN/20100 Laboratory Re Water North Railway 3.5L Satisfactory)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27A			
	Sampic	condition.	Satisfactory			Facking.	Sealed	Sp	ecification:
	Sr.No	Paramete	rs*	Results	Unit	Test Method	1	AL	PL
	1	Total Coliform (MPN/:	100ml)	Absent	MPN/100ml	IS 1622	-		Absent
	2	E.Coli (MPN/100 ml)		Absent	MPN/100ml	IS 1622			Absent



AL & PL as per IS 10500.

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

CHAA PBPL AHMEDAR Analyzed By Authorized Signatory Rajat Chauhan Payal Patel End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/02

M/s Moil Limited

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



SAMPLE DETAILS

Sample Sample Sample	: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/2010 Laboratory Re Water End of North 3.5L Satisfactory	·····		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27 Sealed	'A	
Sr.No	Paramet	ore	Results	Unit	Test Method		-	pecification:
51.110	Faidilieu	ers	Results	Unit	Test Method		AL	PL
1	pH at 25 °C		7.35	-	IS 3025-Part 11		6.5-8.5	No Relaxation
2	Alkalinity as CaCO3		144	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		49.7	mg/L	APHA 23rd Edn 3500 Ca E	3	75	200
4	Chloride		106.97	mg/L	IS 3025 -Part 32		250	1000
5	Colour		BQL (QL=1)	CU	IS 3025 Part-4		5	15
6	Fluoride (F)		0.26	mg/L	APHA 23rd Edn 4500 F D		1	1.5
7	Magnesium as Mg		27.7	mg/L	APHA 23rd Edn 3500 Mg I	3	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		38.45	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solids	; 	345	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	CO3	238	mg/L	APHA 23rd Edn 2340 C		200	600

mg/L

HAA

AHMEDAB.

11

AL & PL as per IS 10500.

Total Suspended Solids (TSS)

12

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

BQL (QL=5)

Analyzed By Rajat Chauhan

NS

Authorized Signatory Payal Patel

APHA 23rd Edn 2540 D

Page No : 1/2

NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/02

M/s Moil Limited

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



SAMPLE DETAILS

Sample Sample Sample	: e Drawn By: e Type: e Description: e Quantity: e Condition:	Laboratory R Water	C/06S/V2/02 epresentative Railway Siding		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27A Sealed		
							S	pecification:
Sr.No	Paramet	ers	Results	Unit	Test Method	AI		PL
13	Turbidity		1.2	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		1.53	mg/L	APHA 23rd Edn 4500 NO3	B 45	5	No

AL & PL as per IS 10500.

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

AHMEDABAT 2 Analyzed By 9 * Rajat Chauhan --- End of Report ---

PBP

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/02A

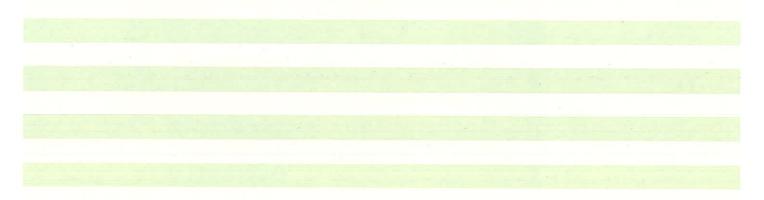
Reporting Date : 12/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Sample Sample Sample	e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/20100 Laboratory Re Water End of North 3.5L Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	29/12/2023 02/01/2024 02/01/2024 11/01/2024 GGMPL/WI/27A Sealed		pecification:
Sr.No	Paramete	ers*	Results	Unit	Test Method	A	L	PL
1	Total Coliform (MPN/:	100ml)	Absent	MPN/100ml	IS 1622	-		Absent
2	E.Coli (MPN/100 ml)		Absent	MPN/100ml	IS 1622			Absent



AL & PL as per IS 10500.

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

AHMEDABAI Analyzed By Authorized Signatory 9 Rajat Chauhan * Payal Patel End of Report ----

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010C/06S/V2/03

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



Reporting Date: 12/01/2024

SAMPLE DETAILS

Sample Drawn By:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Sample Type:

Lab ID:

Lab/PN/2010C/06S/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:

29/12/2024 30/12/2023 02/01/2024 02/01/2024-11/01/2024 24 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.86	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)	1.031	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

CHAA Analyzed By Authorized Signatory Rajat Chauhan Payal Patel * Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010C/06S/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. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/2010C/06S/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:

29/12/2024 30/12/2023 02/01/2024 02/01/2024-11/01/2024 24 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Rajat Chauhan

HMEDABA £ End of Report

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010C/06S/V2/04

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/04
Sample Drawn By:	Laboratory Representative
Sample Type:	Ambient Air
Sample Description:	End of North Railway Siding
Env. CondSampling:	Ambient Temperature
Env. CondSample Receipt:	Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 29/11/2023 30/12/2023 02/01/2024 02/01/2024-11/01/2024 24 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.06	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)	1.00	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By 11 HMFD Rajat Chauhan *

8BPW Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010C/06S/V2/04

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



SAMPLE DETAILS

Sample Drawn By:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Sample Type:

Lab ID:

Lab/PN/2010C/06S/V2/04 Laboratory Representative Ambient Air End of North Railway Siding Ambient Temperature Satisfactory Sampling Start Date:29/11/2023Sampling End Date:30/12/2023Sample Receipt Date:02/01/2024Analysis start- End Date:02/01/2024Total Sampling hours:24Env. Cond.-Testing:25±5 °C

29/11/2023 30/12/2023 02/01/2024 02/01/2024-11/01/2024 24 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Rajat Chauhan

HMEDAR End of Rep

DB-D

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/05

M/s Moil Limited

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



Reporting Date: 12/01/2024

SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	29/12/2023
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2010C/0 6S/V2/05A	North Railway Siding Office	10;05	dB(A)Leq	IS 4758	59.6	-
2	Lab/PN/2010C/0 6S/V2/05B	End of North railway siding	10:40	dB(A)Leq	IS 4758	61.1	

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit AHMEDAB. P.B.PG CL Analyzed By Authorized Signatory C 9 * 0 Rajat Chauhan Payal Patel --- End of Report ----

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