

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/01 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Samp	D: le Drawn By: le Type: le Description:	Ground Wate	epresentative	ll (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024		
	le Quantity: le Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27 Sealed	7A	
							S	pecification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO3		166.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca		65.73	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride		85.97	mg/L	IS 3025- Part 32		250	1000
. 4	Colour		BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride		0.25	mg/L	APHA 23rd Edn 4500 F D		1	1.5
6	Magnesium as Mg		12.39	mg/L	APHA 23rd Edn 3500 Mg B		30	100
7	Odour		Agreeable	-	IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C		6.55	-	IS 3025- Part 11		6.5 to 8.5	AL.
9	Sulphate		25.64	mg/L	APHA 23rd Edn 4500 SO4 E			400
10	Total Dissolved Solids	(TDS)	330.0	mg/L	APHA 23rd Edn 2540 C			2000
11	Total Suspended Solid	is (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D			NS

AL & PL As Per IS 10500.

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

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SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:	Laboratory I Ground Wat	o/PN/535D/93M/01 poratory Representative pund Water ministrative Building Borewell (GW)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024		
Sample Quantity: Sample Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27A Sealed	9	
						9	Specification:
Sr.No Param	eters	Results	Unit	Test Method	ļ	AL	PL
12 Total Hardness as	CaCO3	214.00	mg/L	APHA 23rd Edn 2340 C	2	200	600
13 Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1		5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	C).3	No Relaxation
15 Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0).1	0.3
16 Nitrate		1.69	mg/L	APHA 23rd Edn 4500 NO3	B 4	15	No Relaxation

AL & PL As Per IS 10500.

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

AN Hundalow HMEDABAD Analyzed By Authorized Signatory Khushbu Suthar 09 * Manish Kumawat End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/02 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampl	D: le Drawn By: le Type: le Description:	Laboratory R Waste Water	aboratory Representative State Water		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024
	e Quantity: e Condition:	Condition Cult Cult		Sampling Method: Packing:	GGMPL/WI/27A Sealed	
Sr.No	Parameters		Results	Unit	Test Method	Norm
1	pH at 25 °C		7.53	-	IS 3025- Part 11	
2	Total Suspended Soli	ds	20.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease		BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Der	mand	60.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen		3.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 c	lavs	19			
7				mg/L	IS 3025- Part 44	-
'	Manganese		BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/03 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampl	D: le Drawn By: le Type: le Description:	Laboratory Representative Waste Water		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024	
Sample Quantity:3 LSample Condition:Satisfactory			Sampling Method: Packing:	GGMPL/WI/27A Sealed		
Sr.No	Paramet	ers	Results	Unit	Test Method	Norm
1	pH at 25 °C		6.72		IS 3025- Part 11	
2	Total Suspended Soli	ds	48.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease		BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Der	mand	290.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen		3.9	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 d	lays	93	mg/L	IS 3025- Part 44	
7	Manganese		BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/04 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:Lab/PN/535D/93M/04Sample Drawn By:Laboratory RepresentativeSample Type:Waste WaterSample Description:ETP Outlet (WW)Sample Quantity:3.5 LSample Condition:Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024			
		a.		Sampling Method: GGMPL/WI/2 Packing: Sealed		7A	
Sr.No	Paramet	ters	Results	Unit	Test Method		Norm
1	pH at 25 °C		7.25		IS 3025- Part 11		5.5 to 9.0
2	Total Suspended Soli	ids	24.00	mg/L	APHA 23rd Edn 2540 D		100
3	Oil and Grease		BQL (QL=2)	mg/L	IS 3025- Part 39		10
4	Chemical Oxygen De	mand	70.00	mg/L	APHA 23rd Edn 5220 B		250
5	Dissolved Oxygen		3.20	mg/L	IS 3025- Part 38		NS
6	BOD at 27 o C for 3 d	BOD at 27 o C for 3 days		mg/L	IS 3025- Part 44		30
7	Manganese		BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46		NS

Norms As Per CTO.

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

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Khushbu Suthar

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Report Number: GGMPL/PN/535D/93M/05 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampl): e Drawn By: e Type: e Description:	Lab/PN/535D Laboratory R Waste Water STP Inlet (W	epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024
	e Quantity: e Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27A Sealed
Sr.No	Paramet	ers	Results	Unit	Test Method	Norm
1	pH at 25 °C		6.42		IS 3025- Part 11	
2	Total Suspended Soli	ds	61.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease		BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Der	mand	130.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen		2.7	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 d	lays	41	mg/L	IS 3025- Part 44	
7	Manganese		BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/06 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampling Method:: Sampling Method:: GGMPL/WI/27A Sampling Method:: Sampling Method:: GGMPL/WI/27A Parameters Results Unit Test Method Norm I Parameters Results Unit Test Method Norm I PH at 25 °C 7.58 - IS 3025- Part 11 NS I Pt at 25 °C SAMPHIA Solids SOL Magneters NS I Pt at 25 °C SAMPHIA Solids IS 3025- Part 31 NS I Otal Suspended Solids SOL mg/L IS 3025- Part 39 NS I Dissolved Oxygen Demand 36.00 mg/L IS 3025- Part 38 NS I Dissolved Oxygen I I IS 3025- Part 38 NS I Dissolved Oxygen I I I I I I I Manganese BOL (OL=0.1) mg/L IS 3025- Part 44 I I I Manganese BOL (OL=0.1) Mangle I I I I I Manganese BOL (OL	Sample Drawn By:Laboratory RepresentativeSSample Type:Waste WaterASample Description:STP Outlet(WW)ASample Quantity:2.5 LSSample Condition:Subject to the second s		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024			
1pH at 25 °C7.58-IS 3025- Part 11NS2Total Suspended Solids25.00mg/LAPHA 23rd Edn 2540 D1003Oil and GreaseBQL (QL=2)mg/LIS 3025- Part 39NS4Chemical Oxygen Demand80.00mg/LAPHA 23rd Edn 5220 B1005Dissolved Oxygen3.6mg/LIS 3025- Part 38NS6BOD at 27 o C for 3 days24mg/LIS 3025- Part 4430							
1pH at 25 °C7.58-IS 3025- Part 11NS2Total Suspended Solids25.00mg/LAPHA 23rd Edn 2540 D1003Oil and GreaseBQL (QL=2)mg/LIS 3025- Part 39NS4Chemical Oxygen Demand80.00mg/LAPHA 23rd Edn 5220 B1005Dissolved Oxygen3.6mg/LIS 3025- Part 38NS6BOD at 27 o C for 3 days24mg/LIS 3025- Part 4430							
2Total Suspended Solids25.00mg/LAPHA 23rd Edn 2540 D1003Oil and GreaseBQL (QL=2)mg/LIS 3025- Part 39NS4Chemical Oxygen Demand80.00mg/LAPHA 23rd Edn 5220 B1005Dissolved Oxygen3.6mg/LIS 3025- Part 38NS6BOD at 27 o C for 3 days24mg/LIS 3025- Part 4430	Sr.No	Paramet	ers	Results	Unit	Test Method	Norm
3Oil and GreaseBQL (QL=2)mg/LIS 3025- Part 39NS4Chemical Oxygen Demand80.00mg/LAPHA 23rd Edn 5220 B1005Dissolved Oxygen3.6mg/LIS 3025- Part 38NS6BOD at 27 o C for 3 days24mg/LIS 3025- Part 4430	1	pH at 25 °C		7.58		IS 3025- Part 11	NS
4Chemical Oxygen Demand80.00mg/LIS 3025- Part 39NS5Dissolved Oxygen3.6mg/LIS 3025- Part 381006BOD at 27 o C for 3 days24mg/LIS 3025- Part 4430	2	Total Suspended Soli	ds	25.00	mg/L	APHA 23rd Edn 2540 D	100
5 Dissolved Oxygen 3.6 mg/L IS 3025- Part 38 NS 6 BOD at 27 o C for 3 days 24 mg/L IS 3025- Part 44 30	3	Oil and Grease		BQL (QL=2)	mg/L	IS 3025- Part 39	NS
6 BOD at 27 o C for 3 days 24 mg/L IS 3025- Part 44 30 7 Management Date for Date Date Date for	4	Chemical Oxygen Der	mand	80.00	mg/L	APHA 23rd Edn 5220 B	100
6 BOD at 27 o C for 3 days 24 mg/L IS 3025- Part 44 30 7 Management Date for 3 Date for	5	Dissolved Oxygen		3.6	mg/L	IS 3025- Part 38	
	6	BOD at 27 o C for 3 c	lays	24	mg/L	IS 3025- Part 44	
	7	Manganese		BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CTO.

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Report Number : GGMPL/PN/535D/93M/07 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sample Sample Env. C): e Drawn By: e Type: e Description: ondSampling: ondSample Receipt:	Lab/PN/535D/93M/07 Laboratory Representative Ambient Air Near Administrative Building Ambient Temperature Satisfactory	÷	Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. CondTesting:	26/05/2024 27/05/2024 28/05/2024 29/05/2024-05/06/2024 24 25±5°C
Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No. August 01	02 60
3	Sulphur Dioxide (SO2)	14.73	µg/m3	IS 5182-Part 2	80
4	Nitrogen Diovido (NO2)	22.44			

4 Nitrogen Dioxide (NO2) 22.14 μg/m3 IS 5182- Part 6 80 5 Ozone (O3) 13.22 μg/m3 IS 5182- Part 9 180 6 Ammonia (NH3) 19.94 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		A111				
6 Ammonia (NH3) 19.94 µg/Nm3 GGMPL/SOP/AA/62 Issue No.02 400 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	4	Nitrogen Dioxide (NO2)	22.14	µg/m3	IS 5182- Part 6	80
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	5	Ozone (O3)	13.22	µg/m3	IS 5182- Part 9	180
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 12 1 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4 20 11 Arsenic as As POL (QL=1) ng/m3 USEPA Method IO 3.4 20	6	Ammonia (NH3)	19.94	µg/Nm3		400
9 Carbon Monoxide (CO) 1.07 mg/m3 IS 5162 Full 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 POL (QL=1) ng/m3 USEPA Method IO 3.4 20	7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
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 20	8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
11 Arsenic as As	9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
11 Arsenic as As BQL (QL=1) ng/m3 USEPA Method IO 3.4 6	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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Page No: 1/2

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/07 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/07	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Administrative Building	Analysis start- End Date:	29/05/2024-05/06/2024
Env. CondSampling:	Ambient Temperature	Total Sampling hours:	24
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit Analyzed By Khushbu Suthar --- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/08

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 06/06/2024

SAMPLE DETAILS

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

Lab/PN/535D/93M/08 Laboratory Representative Ambient Air Near Vertical Shaft-1 Ambient Temperature Satisfactory

Sampling Start Date:26/05Sampling End Date:27/05Sample Receipt Date:28/05Analysis start- End Date:29/05Total Sampling hours:24Env. Cond.-Testing:25±5

26/05/2024 27/05/2024 28/05/2024 29/05/2024-05/06/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.20	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	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)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/08

M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/08	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	29/05/2024-05/06/2024
Env. CondSampling:	Ambient Temperature	Total Sampling hours:	24
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	41	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Report Number : GGMPL/PN/535D/93M/09

M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/535D/93M/09 Laboratory Representative Ambient Air Near DSU Plant Ambient Temperature Satisfactory Sampling Start Date:26/05/2024Sampling End Date:27/05/2024Sample Receipt Date:28/05/2024Analysis start- End Date:29/05/2024-05/06/2024Total Sampling hours:24Env. Cond.-Testing:25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.19	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)	16.70	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	24.21	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

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

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Reporting Date: 06/06/2024



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Report Number : GGMPL/PN/535D/93M/09

M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/535
Sample Drawn By:	Laboratory
Sample Type:	Ambient Air
Sample Description:	Near DSU P
Env. CondSampling:	Ambient Te
Env. CondSample Receipt:	Satisfactory

ab/PN/535D/93M/09 aboratory Representative Ambient Air Jear DSU Plant Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 26/05/2024 27/05/2024 28/05/2024 29/05/2024-05/06/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.0	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/535D/93M/10 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/535D/93M/10 Laboratory Representative Ambient Air Near Compressor Room Ambient Temperature Satisfactory Sampling Start Date:26/05/2024Sampling End Date:27/05/2024Sample Receipt Date:28/05/2024Analysis start- End Date:29/05/2024-05/06/2024Total Sampling hours:24Env. Cond.-Testing:25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.80	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.03	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.58	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.37	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.51	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)	1.043	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/535D/93M/10

M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

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

Lab/PN/535D/93M/10 Laboratory Representative Ambient Air Near Compressor Room Ambient Temperature Satisfactory Sampling Start Date:26/05/202Sampling End Date:27/05/202Sample Receipt Date:28/05/202Analysis start- End Date:29/05/202Total Sampling hours:24Env. Cond.-Testing:25±5°C

26/05/2024 27/05/2024 28/05/2024 29/05/2024-05/06/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	43	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/11

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 06/06/2024

SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sam
Sample By	Laboratory Representative	Sam

Sampling Date: Sample Description: 26/05/2024 Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/535D/93 M/11A	Near Ventilation	Day Time	dB(A)Leq	IS 4758	62.4	
2	Lab/PN/535D/93 M/11B	Near Vertical Shaft-01	Day Time	dB(A)Leq	IS 4758	66.4	-
3	Lab/PN/535D/93 M/11C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	56.7	19. 14
4	Lab/PN/535D/93 M/11D	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	67.7	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification ophul HMEDAB L a Analyzed By Authorized Signatory Khushbu Suthar 5 * Manish Kumawat --- End of Report ----

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/538D/93M/01 M/s Moil Limited Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Laborato Ground V	rative Building (Bore	ewell) (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	26/05/2024 28/05/2024 29/05/2024 04/06/2024 GGMPL/WI/2 Sealed	.7A	Gracification
Sr.No Pa	rameters	Results	11. 11				Specification:
onno iu	ranicters	Results	Unit	Test Method		AL	PL
1 Total coliform		Absent	per 100ml	APHA 9221B 24th Edition	1 2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Edition	ı	Absent	Absent

AL & PL as per IS 10500.

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

HAA AHMEDABAD Analyzed By Nidhi Shah 09 * End of Report ----

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/536D/93N/01

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Samp	D: le Drawn By: le Type: le Description:	Water	i/93N/01 epresentative er(Old Durga Pit W	ater) (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 28/05/2024 03/06/2024		
	e Quantity: e Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27 Sealed	Ά.	
							SI	pecification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO3		160.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca		34.06	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride		29.49	mg/L	IS 3025- Part 32		250	1000
4	Colour		BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride		0.41	mg/L	APHA 23rd Edn 4500 F D		1	1.5
6	Magnesium as Mg		19.44	mg/L	APHA 23rd Edn 3500 Mg B		30	100
7	Odour		Agreeable	-	IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C		7.15		IS 3025- Part 11		6.5 to 8.5	and the second second
9	Sulphate		35.10	mg/L	APHA 23rd Edn 4500 SO4 E		200	400
10	Total Dissolved Solids	(TDS)	250.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Solic	ls (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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/536D/93N/01 M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:	Water	D/93N/01 Representative ter(Old Durga Pit V	Vater) (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 28/05/2024 03/06/2024	
Sample Quantity: Sample Condition:	3.5 L Satisfactory		-	Sampling Method: Packing:	GGMPL/WI/27A Sealed	
						Specification:
Sr.No Parar	neters	Results	Unit	Test Method	AL	PL
12 Total Hardness as	CaCO3	165.00	mg/L	APHA 23rd Edn 2340 C	200	600
13 Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15 Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitrate		4.17	mg/L	APHA 23rd Edn 4500 NO3	B 45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

End of Report

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/536D/93N/02

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

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

Lab/PN/536D/93N/02 Laboratory Representative Ambient Air Near Old OCF Ambient Temperature Satisfactory

Sampling Start Date: 26/05/2024 Sampling End Date: 27/05/2024 Sample Receipt Date: 28/05/2024 Analysis start- End Date: 28/05/2024-03/06/2024 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.10	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	20.42	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	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

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

Analyzed By Authorized Signatory HMEDAR Priyanka Shrimali Manish Kumawat

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Report Number : GGMPL/PN/536D/93N/02

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/536D/93N/02
Sample Drawn By:	Laboratory Representative
Sample Type:	Ambient Air
Sample Description:	Near Old OCF
Env. CondSampling:	Ambient Temperature
Env. CondSample Receipt:	Satisfactory

 Sampling Start Date:
 26/05/2024

 Sampling End Date:
 27/05/2024

 Sample Receipt Date:
 28/05/2024

 Analysis start- End Date:
 28/05/2024-03/06/2024

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	37	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

C End of Report

Authorized Signatory

Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/536D/93N/03

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter Sample By Laboratory Representative

Sampling Date: Sample Description: 26/05/2024 Source Noise

Sr.No Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1 Lab/PN/536D/93 N/03A	Near Old OCF	Day Time	dB(A)Leq	IS 4758	59.7	



NS=Not Specified, BQL=Below Quantification Limit,	QL= Quantification Limit	\
Piizza	AHMEDADAD)	
Analyzed By Priyanka Shrimali	E 00 * 00	Authorized Signatory Manish Kumawat
	End of Report	

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Report Number: GGMPL/PN/539D/93N/01

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/5	539D/93N/01		Sampling Date:	26/05/2024		
Sample Drawn By: Sample Type: Sample Description Sample Quantity: Sample Condition:	Ground \	Water(Old Durga P	it Water) (GW)	Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	28/05/2024 29/05/2024 04/06/2024 GGMPL/WI/ Sealed		
							Specification:
Sr.No	Parameters	Results	Unlt	Test Method		AL	PL

Sr.No	Parameters	Results	Unlt	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

AHMEDABAD 9 * --- End of Report -

178 Authorized Signatory Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/537D/93O/01

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Samp	D: le Drawn By: le Type: le Description:	Water	D/93O/01 Representative Borewell (GW)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024		
	le Quantity: le Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/2 Sealed	7A	
Sr.No	Dama							Specification:
51.100	raramet	ers	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO3		130.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca		40.48	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride		48.98	mg/L	IS 3025- Part 32		250	1000
4	Colour		BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride		0.54	mg/L	APHA 23rd Edn 4500 F D		1.0	1.5
6	Magnesium as Mg		15.52	mg/L	APHA 23rd Edn 3500 Mg B		30	100
7	Odour		Agreeable	-	IS 3025- Part 5		Agreeable	e Agreeable
8	pH at 25 °C		7.39		IS 3025- Part 11		6.5-8.5	No
9	Sulphate		39.78	mg/L	APHA 23rd Edn 4500 SO4	_		Relaxation
10	Total Dissolved Solids						200	400
		66 - 18	276.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Solid	s (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

AHMEDABAD Analyzed By Nidhi Shah 5 * 1

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Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/537D/930/01

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sample	: e Drawn By: e Type: e Description:	Lab/PN/537D, Laboratory Re Water Staff Colony E	5. 5.		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	26/05/2024 28/05/2024 29/05/2024 05/06/2024		
	e Quantity: e Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27/ Sealed	A	
								Specification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
12	Total Hardness as Ca	CO3	164.00	mg/L	APHA 23rd Edn 2340 C		200	600
13	Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B		1	5
14	Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46		0.3	No Relaxation
15	Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46		0.1	0.3
16	Nitrate		1.52	mg/L	APHA 23rd Edn 4500 NO3	В	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/537D/930/02

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/537D/930/02 Laboratory Representative Ambient Air Near Staff Colony

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: 24

Total Sampling hours: Env. Cond.-Testing:

26/05/2024 27/05/2024 28/05/2024 29/05/2024-05/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.18	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)	9.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	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

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/537D/930/02

M/s Moil Limited Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S) Reporting Date: 06/06/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

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

Lab/PN/537D/930/02 Laboratory Representative Ambient Air Near Staff Colony

Ambient Temperature Satisfactory

Sampling Start Date: 26/05/2024 Sampling End Date: 27/05/2024 Sample Receipt Date: 28/05/2024 Analysis start- End Date: 29/05/2024-05/06/2024 Total Sampling hours: 74

Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	38	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Authorized Signatory Manish Kumawat

Page No: 2/2

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Report Number: GGMPL/PN/537D/930/03

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 06/06/2024

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter Sample By Laboratory Representative

Sampling Date: Sample Description: 26/05/2024 Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/537D/93 O/03A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	55.8	-

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit AHMEDAB U. Analyzed By Authorized Signatory Nidhi Shah 5 * Manish Kumawat

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/540D/930/01

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampl Sampl Sampl	o: e Drawn By: e Type: e Description e Quantity: e Condition:	L (1: 5	ab/PN/540D/930 aboratory Repres Ground Water Staff Colony Borev 500 ml Satisfactory	sentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	26/05/2024 28/05/2024 29/05/2024 04/06/2024 GGMPL/WI/27 Sealed		Specification:
Sr.No		Parameter	s Res	sults	Unit	Test Method		AL	PL
1	Total colifor	rm	Abs	ent	per 100ml	APHA 9221B 24th Edition	2021	Absent	Absent
2	E. coli		Abs	ent	per 100ml	APHA 9221G 24th Edition		Absent	Absent



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

Analyzed By Nidhi Shah



Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/562D/93P/01

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description	Laboratory Water	2D/93P/01 Representative Borewell (G.W)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	27/05/2024 29/05/2024 29/05/2024 04/06/2024		
Sample Quantity: Sample Condition:	3.5 L Satisfactor	у		Sampling Method: Packing:	GGMPL/WI/2 Sealed	.7A	
						S	pecification:
Sr.No	Parameters	Results	Unit	Test Method		AL	PL
1 Alkalinity as	s CaCO3	195.00	mg/L	APHA 23rd Edn 2320 B		200	600
2 Calcium as	Ca	94.18	mg/L	APHA 23rd Edn 3500 Ca	В	75	200
3 Chloride		90.47	mg/L	IS 3025- Part 32		250	1000
4 Colour		BQL (QL=1)	CU	IS 3025- Part 4		5	15
5 Fluoride		0.49	mg/L	APHA 23rd Edn 4500 F)	1	1.5
6 Magnesium	as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg	В	30	100
7 Odour		Agreeable	and the second second	IS 3025- Part 5		Agreeable	Agreeable
8 pH at 25 °C		7.98		IS 3025- Part 11		6.5 to 8.5	No Relaxation
9 Sulphate		85.60	mg/L	APHA 23rd Edn 4500 SO	4 E	200	400
10 Total Dissol	ved Solids (TDS)	430.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11 Total Suspe	nded Solids (TSS)	8.00	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 Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/562D/93P/01

M/s Moil Limited Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:	Water	D/93P/01 Representative Sorewell (G.W)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	27/05/2024 29/05/2024 29/05/2024 04/06/2024	
Sample Quantity: Sample Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27A Sealed	
						Specification:
Sr.No Parar	neters	Results	Unit	Test Method	AL	PL
12 Total Hardness as	CaCO3	325.00	mg/L	APHA 23rd Edn 2340 C	200	600
13 Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15 Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitrate		2.88	mg/L	APHA 23rd Edn 4500 NO3	3 B 45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

CHAN AHMEDABA * --- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/562D/93P/02

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 05/06/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/562D/93P/02 Laboratory Representative Ambient Air Near VT Center Ambient Temperature Satisfactory Sampling Start Date:27/05/2024Sampling End Date:28/05/2024Sample Receipt Date:29/05/2024Analysis start- End Date:29/05/2024-04/06/2024Total Sampling hours:24Env. Cond.-Testing:25±5°C

Sr.No	p Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	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)	1.01	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 Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/562D/93P/02

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 05/06/2024

SAMPLE DETAILS

Lab ID:	Lab/PN/562D/93P/02	Sar
Sample Drawn By:	Laboratory Representative	Sar
Sample Type:	Ambient Air	Sai
Sample Description:	Near VT Center	An
Env. CondSampling:	Ambient Temperature	Tot
Env. CondSample Receipt:	Satisfactory	Env

ampling Start Date:27/05/2024ampling End Date:28/05/2024ample Receipt Date:29/05/2024nalysis start- End Date:29/05/2024-04/06/2024otal Sampling hours:24nv. Cond.-Testing:25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	41	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

nalyzed By Priyanka Shrimali

HAA

--- End of Report ----

Authorized Signatory Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/562D/93P/03

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 05/06/2024

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter Sample By Laboratory Representative Sampling Date: Sample Description: 27/05/2024 Source Noise

Sr.No Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1 Lab/PN/562D/93 P/03A	Near VT Center	Day Time	dB(A)Leq	IS 4758	58.4	



IS=Not Specified, BQL=Below Quantification Limit	c,QL= Quantification Limit	N
Divents	HAHMEDAR/E	\bigcirc
Analyzed By	B	Authorized Signatory
Priyanka Shrimali	End of Report	Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/565D/93P/01

M/s Moil Limited Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity:	Ground Wat	Representative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method:	27/05/2024 29/05/2024 30/05/2024 04/06/2024 GGMPL/WI/2	7A	
Sample Condition:	Satisfactory			Packing:	Sealed		
							Specification:
Sr.No Param	ieters	Results	Unit	Test Method		AL	PL
1 Total coliform		Absent	per 100ml	APHA 9221B 24th Edition	2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Edition	n	Absent	Absent



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

Analyzed By Nidhi Shah

HAN AHMEDABAD × --- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/01

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampl	o: e Drawn By: e Type: e Description:	Water)/93Q/01 epresentative Railway Siding (G\	V)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	27/05/2024 29/05/2024 30/05/2024 06/06/2024		
	e Quantity: e Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27 Sealed	A	
							Sp	pecification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO3		146.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca		58.52	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride		68.99	mg/L	IS 3025- Part 32		250	1000
4	Colour		BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride		0.43	mg/L	APHA 23rd Edn 4500 F D		1.0	1.5
6	Magnesium as Mg		18.71	mg/L	APHA 23rd Edn 3500 Mg E		30	100
7	Odour		Agreeable		IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C		7.29	- -	IS 3025- Part 11		6.5-8.5	No Relaxation
9	Sulphate		56.36	mg/L	APHA 23rd Edn 4500 SO4	E	200	600
10	Total Dissolved Solids	s (TDS)	342.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Solid	ds (TSS)	11.00	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 /.c Analyzed By * Jhanvi Chhasatiya

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/01

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn B Sample Type: Sample Descripti	y: Labo Wate	PN/563D/93Q/01 ratory Representative er Point of Railway Siding (G	W)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	27/05/2024 29/05/2024 30/05/2024 06/06/2024	
Sample Quantity Sample Condition		factory		Sampling Method: Packing:	GGMPL/WI/27A Sealed	
						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12 Total Ha	rdness as CaCO3	223.00	mg/L	APHA 23rd Edn 2340 C	200	600
13 Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/4	6 0.3	No Relaxation
15 Mangane	se	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/4	6 0.1	0.3
16 Nitrate		1.26	mg/L	APHA 23rd Edn 4500 NC	03 B 45	No Relaxation

AL & PL as per IS 10500

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

Analyzed By

Jhanvi Chhasatiya

5 *

End of Report ---

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Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/02 M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampl	D: le Drawn By: le Type: le Description:	Lab/PN/563[Laboratory R Water Nr Weight Br	Representative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	27/05/2024 29/05/2024 30/05/2024 06/06/2024		
	e Quantity: e Condition:	3.5 L Satisfactory			Sampling Method: Packing:	GGMPL/WI/27 Sealed	Ά	
1237							S	pecification:
Sr.No	Parame	ters	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO3		140.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca		52.10	mg/L	APHA 23rd Edn 3500 Ca I	3	75	200
3	Chloride		65.48	mg/L	IS 3025- Part 32		250	1000
4	Colour		BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride		0.52	mg/L	APHA 23rd Edn 4500 F D		1.0	1.5
6	Magnesium as Mg		19.44	mg/L	APHA 23rd Edn 3500 Mg	3	30	100
7	Odour		Agreeable	-	IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C		7.61		IS 3025- Part 11		6.5-8.5	No Relaxation
9	Sulphate		50.31	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	s (TDS)	314.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Soli	ds (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL IS 10500

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

Analyzed By

Jhanvi Chhasatiya

II AHMET

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/02

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date : 07/06/2024

SAMPLE DETAILS

Sampl): e Drawn By: e Type: e Description:	Laborator Water	63D/93Q/02 y Representative t Bridge (GW)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:	27/05/2024 29/05/2024 30/05/2024 06/06/2024	
	e Quantity: e Condition:	3.5 L Satisfacto	ry		Sampling Method: Packing:	GGMPL/WI/27A Sealed	4
And in case							Specification:
Sr.No	Para	ameters	Results	Unit	Test Method	AL	PL
12	Total Hardness a	as CaCO3	210.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/4	5 0.3	No Relaxation
15	Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/4	5 0.1	0.3
16	Nitrate		1.16	mg/L	APHA 23rd Edn 4500 NO	3 B 45	No Relaxation

AL & PL IS 10500

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

Analyzed By Jhanvi Chhasatiya



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/03

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 07/06/2024

SAMPLE DETAILS

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

Lab/PN/563D/93Q/03 Laboratory Representative Ambient Air End Point of Railway Siding Ambient Temperature Satisfactory

 Sampling Start Date:
 27/05/2024

 Sampling End Date:
 28/05/2024

 Sample Receipt Date:
 29/05/2024

 Analysis start- End Date:
 30/05/2024-06/06/2024

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	79.63	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	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

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

Analyzed By Jhanvi Chhasatiya

AHMEDAP *

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/03

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 07/06/2024

SAMPLE DETAILS

Lab ID:	Lab/PN/
Sample Drawn By:	Laborato
Sample Type:	Ambient
Sample Description:	End Poir
Env. CondSampling:	Ambient
Env. CondSample Receipt:	Satisfact

/563D/93Q/03 ory Representative t Air nt of Railway Siding t Temperature tory

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

27/05/2024 28/05/2024 29/05/2024 30/05/2024-06/06/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Jhanvi Chhasatiya

AHMED 111 \cap 9 * End of Report

Authorized Signatory

Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/04

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 07/06/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/563D/93Q/04 Laboratory Representative Ambient Air Nr Weigh Bridge Ambient Temperature Satisfactory Sampling Start Date:27/05/2024Sampling End Date:28/05/2024Sample Receipt Date:29/05/2024Analysis start- End Date:30/05/2024-06/06/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.49	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.95	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.49	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	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 Jhanvi Chhasatiya

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/04

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 07/06/2024

SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/04	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Nr Weigh Bridge	Analysis start- End Date:	30/05/2024-06/06/2024
Env. CondSampling:	Ambient Temperature	Total Sampling hours:	24
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C
. 18 19		-	

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	46	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jhanvi Chhasatiya

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/05

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 07/06/2024

SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	27/05/2024
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/563D/93 O/05A	End point of Railway Siding	Day Time	dB(A)Leq	IS 4758	62.4	H
2	Lab/PN/563D/93 0/05B	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	68.9	

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

9 *

Jhanvi Chhasatiya

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/566D/93Q/01

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/566[D/93Q/01		Sampling Date:	27/05/2024		
Sample Drawn By:	Laboratory F	Representative		Sample Receipt Date:	29/05/2024		
Sample Type:	Ground Wate	er		Analysis Start Date:	30/05/2024		
Sample Description:	End Point of (GW)	Railway Siding (B	Borewell Water)	Analysis End Date:	05/06/2024		
Sample Quantity:	500 ml			Sampling Method:	GGMPL/WI/27	7A	
Sample Condition:	Satisfactory			Packing:	Sealed	*	
					•		Specification:
Sr.No Paran	ieters	Results	Unit	Test Method		AL	PL
1 Total coliform		Absent	per 100ml	APHA 9221B 24th Edition	2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Edition		Absent	Absent

AL & PL as per IS 10500.

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

AHMEDABAD X 111 Analyzed By Authorized Signatory Nidhi Shah Dr. Haragobinda Srichandan C 9 * nd of Report

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/566D/93Q/02

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Ground Wa	Representative ter ge (Borewell Wat	er) (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	27/05/2024 29/05/2024 30/05/2024 05/06/2024 GGMPL/WI/2 Sealed	7A	Specification:
Sr.No Param	eters	Results	Unit	Test Method		AL	PL
1 Total coliform		Absent	per 100ml	APHA 9221B 24th Edition	2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Edition		Absent	Absent



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

Analyzed By Nidhi Shah

C.H AN LF AHMEDABAD 11 n 9 * End of Report -

Authorized Signatory Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/564D/95U/01 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Lab/PN/564D/9 Laboratory Rep Waste Water Waste Water of 3.5 L Satisfactory	•		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	27/05/2024 29/05/2024 29/05/2024 05/06/2024 GGMPL/WI/27A Sealed
Sr.No Para	meters I	Results	Unit	Test Method	Norm

31.110	Faranteters	Results	Unit	rescheulou	NOTH
1	pH at 25 °C	6.91	-	IS 3025- Part 11	-
2	Total Suspended Solids	36.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	34.00	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By Jadav Vishal

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Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/564D/95U/02 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampl Sampl Sampl	e: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/564D, Laboratory Re Ground Water Open Dugwel 3.5 L Satisfactory	presentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	27/05/2024 29/05/2024 29/05/2024 05/06/2024 GGMPL/WI/27/ Sealed		ecification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO3		218.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca		34.47	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride		66.98	mg/L	IS 3025- Part 32		250	1000
4	Colour		BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride		0.41	mg/L	APHA 23rd Edn 4500 F D		1.0	1.5
6	Magnesium as Mg		24.30	mg/L	APHA 23rd Edn 3500 Mg E		30	100
7	Odour		Agreeable	-	IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C		7.23	-	IS 3025- Part 11		6.5 to 8.5	No relaxation
9	Sulphate		51.87	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solid	s (TDS)	352.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Soli	ds (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D		NS	NS
12	Total Hardness as Ca	CO3	186.00	mg/L	APHA 23rd Edn 2340 C		200	600

AL & PL as Per IS 10500

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

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Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/564D/95U/02 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Sample Sample Sample	Drawn By:	Lab/PN/564D Laboratory Re Ground Wate Open Dugwe 3.5 L Satisfactory	epresentative r		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	27/05/2024 29/05/2024 29/05/2024 05/06/2024 GGMPL/WI/27 Sealed	7A	Specification:
Sr.No	Param	neters	Results	Unit	Test Method		AL	PL
13	Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B		1	5
14	Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46		0.3	No Relaxation
15	Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46		0.1	0.3
16	Nitrate		5.61	mg/L	APHA 23rd Edn 4500 NO3	В	45	No Relaxation

AL & PL as Per IS 10500

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

Analyzed By Jadav Vishal End of Report

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Authorized Signator Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/03 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/564D/95U/03 Laboratory Representative Ambient Air Near Mine Office Ambient Temperature Satisfactory Sampling Start Date:27/05/2024Sampling End Date:28/05/2024Sample Receipt Date:29/05/2024Analysis start- End Date:29/05/2024-05/06/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \ ^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.52	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)	16.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	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

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

Analyzed By Jadav Vishal

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/03 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



Reporting Date: 06/06/2024

SAMPLE DETAILS

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

Lab/PN/564D/95U/03 Laboratory Representative Ambient Air Near Mine Office Ambient Temperature Satisfactory Sampling Start Date:27/05/2024Sampling End Date:28/05/2024Sample Receipt Date:29/05/2024Analysis start- End Date:29/05/2024-05/06/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \, ^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	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/564D/95U/04 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/564D/95U/04 Laboratory Representative Ambient Air Waste Dump Side Ambient Temperature Satisfactory Sampling Start Date:27/05/2024Sampling End Date:28/05/2024Sample Receipt Date:29/05/2024Analysis start- End Date:29/05/2024-05/06/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \ ^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.69	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)	17.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Reporting Date: 06/06/2024



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Report Number : GGMPL/PN/564D/95U/04 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

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

Lab/PN/564D/95U/04 Laboratory Representative Ambient Air Waste Dump Side Ambient Temperature Satisfactory Sampling Start Date:27/05/2024Sampling End Date:28/05/2024Sample Receipt Date:29/05/2024Analysis start- End Date:29/05/2024-05/06/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \ ^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Report Number : GGMPL/PN/564D/95U/05 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

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

Lab/PN/564D/95U/05 Laboratory Representative Ambient Air Near Mine Pit Ambient Temperature Satisfactory

Sampling Start Date: 27/05/2024 Sampling End Date: 28/05/2024 Sample Receipt Date: 29/05/2024 Analysis start- End Date: 29/05/2024-05/06/2024 Total Sampling hours: 24 Env. Cond.-Testing: 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.66	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)	14.94	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.39	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.12	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Report Number : GGMPL/PN/564D/95U/05 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



Reporting Date: 06/06/2024

SAMPLE DETAILS

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

Lab/PN/564D/95U/05 Laboratory Representative Ambient Air Near Mine Pit Ambient Temperature Satisfactory Sampling Start Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

27/05/2024 28/05/2024 29/05/2024 29/05/2024-05/06/2024 24 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	50	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

NS=Not Specified, BQL=Below Quantification Limit

Analyzed By Jadav Vishal

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/06

M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



Reporting Date: 06/06/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/564D/95U/06 Laboratory Representative Ambient Air Mine Road (Near Khasra No.19) Ambient Temperature Satisfactory Sampling Start Date:27/05/2024Sampling End Date:28/05/2024Sample Receipt Date:29/05/2024Analysis start- End Date:29/05/2024-05/06/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \ ^{\circ}C$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.85	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.87	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Report Number : GGMPL/PN/564D/95U/06 M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

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

Lab/PN/564D/95U/06 Laboratory Representative Ambient Air Mine Road (Near Khasra No.19) Ambient Temperature Satisfactory

27/05/2024 Sampling Start Date: 28/05/2024 Sampling End Date: 29/05/2024 Sample Receipt Date: 29/05/2024-05/06/2024 Analysis start- End Date: Total Sampling hours: 24 Env. Cond.-Testing: 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal

--- End of Report --

Authorized Signatory

Manish Kumawat

Page No : 2/2

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Reporting Date: 06/06/2024



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/564D/95U/07

M/s Moil Limited Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



Reporting Date: 06/06/2024

SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter
Sample By	Laboratory Representative

Sampling Date: Sample Description: 27/05/2024 Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/564D/95 U/07/A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	54.1	
2	Lab/PN/564D/95 U/07/B	Waste Dump Area	Day Time	dB(A)Leq	IS 4758	60.2	
3	Lab/PN/564D/95 U/07/C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	59.8	-
4	1-26/DN/564D/05	Main Road Near Khasra No. 19	Day Time	dB(A)Leq	IS 4758	51.8	

NS=Not Specified, BQL=Below Quantification,Limit,QL= Quantification Limit Authorized Signatory Analyzed By Manish Kumawat Jadav Vishal --- End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/567D/95U/01 M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Laborat Ground	ugwell (GW)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	27/05/202 29/05/202 30/05/202 04/06/202 GGMPL/W Sealed	24 24 24	Specification:
Sr.No Para	meters	Results	Unit	Test Method		AL	PL
1 Total coliform		Absent	per 100ml	APHA 9221B 24th Editio	n 2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Editio	n	Absent	Absent



AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

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