

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/1714C/79I/V3/01

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur



30/11/2023

04/12/2023

05/12/2023

15/12/2023

GGMPL/WI/27A

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/1714C/79I/V3/01

Sample Description:

Beldongri village borewell near Hanuman

mandir (GW)

Sample Quantity: Sample Condition:

Laboratory Representative

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

Sealed

Specification:

					5	pecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.56		IS 3025-Part 11	6.5 TO 8.5	No Relaxtion
2	Alkalinity as CaCO3	153.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	47.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	19.93	mg/L	APHA 23rd Edn 3500 Mg B	75	200
8	Odour	Agreeable	22	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	21.03	mg/L	APHA 23rd Edn 4500 SO4 E	200	NaN
10	Total Dissolved Solids	291.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	200.00	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

Analyzed By Kinjal Damor

Authorized Signatory Payal Patel

Page No: 1/2

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Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur



SAMPLE DETAILS

Lab ID:

Lab/PN/1714C/79I/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Beldongri village borewell near Hanuman

mandir (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

15/12/2023

Sampling Method:

Packing:

Sealed

30/11/2023

04/12/2023

05/12/2023

GGMPL/WI/27A

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	11.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Turbidity	2.5	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 Relaxtion
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.72	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxtion

AL & PL as per IS 10500.

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

Analyzed By Kinjal Damor

End of Report

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/01A

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

SAMPLE DETAILS

Lab ID:

Lab/PN/1714C/79I/V3/01

Sample Drawn By:

Sample Type:

Sample Description:

Beldongri village borewell near Hanuman

mandir (GW)

Sample Quantity:

Sample Condition:

Laboratory Representative

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

05/12/2023 15/12/2023

30/11/2023

04/12/2023

Sampling Method:

GGMPL/WI/27A

Reporting Date: 16/12/2023

Packing:

Sealed

Specification: Sr No Parameters* Results Unit Test Method PL Total Coliform (MPN/100ml) Absent MPN/100ml IS 1622 Absent 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

Kinjal Damor

--- End of Report ---

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/02

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date : 16/01/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1714C/79I/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

STP inlet (WW)

Sample Quantity: Sample Condition: 4.5L Satisfactory Sampling Date:

Sample Receipt Date:

:

Analysis Start Date:

04/12/2023 05/12/2023

30/11/2023

Analysis End Date:

15/12/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	5.85	-	IS 3025- Part 11	-
2	Total Suspended Solids	140.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	8.00	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	19	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	_

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

Analyzed By Kinjal Damor AHHEDABAD

End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/03

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1714C/79I/V3/03

Sample Drawn By: Sample Type:

Laboratory Representative

Waste Water

Sample Description: Sample Quantity:

STP Outlet (WW)

4.5 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

30/11/2023 04/12/2023

05/12/2023 15/12/2023 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.44	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	15	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.102	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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

Kinjal Damor

End of Report

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/04

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1714C/79I/V3/04

Sample Drawn By:

Laboratory Representative

Waste Water

Sample Type: Sample Description:

ETP INLET (WW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

30/11/2023

04/12/2023 05/12/2023 15/12/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.32	-	IS 3025- Part 11	-
2	Total Suspended Solids	46.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	100.00	mg/L	APHA 23rd Edn 5220 B	Section 1
5	Dissolved Oxygen	4.90	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	26.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.118	mg/L	APHA 23rd Edn 3120 B	-

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

Kinjal Damor

End of Report

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Page No: 1/1

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M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023

TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1714C/79I/V3/05

Sample Drawn By:

Laboratory Representative

Waste Water

Sample Type: Sample Description:

W.W ETP OUTLET

4.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

30/11/2023

04/12/2023 05/12/2023

15/12/2023 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.50	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	11.00	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA.

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

Analyzed By Kinjal Damor AHMEDABAD Pind of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/06

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1714C/79I/V3/06

Laboratory Representative Waste Water

Sample Description:

Sample Drawn By:

Sample Type:

W.W Mine Sewage Underground Water

Sample Quantity: 4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

30/11/2023

04/12/2023 05/12/2023

15/12/2023 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	-	IS 3025- Part 11	-
2	Total Suspended Solids	26.00	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	4.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	16.00	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	

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

Kinjal Damor



Authorized Signatory Payal Patel

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/07

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1714C/79I/V3/07

Laboratory Representative Ambient Air Near Haul Road Ambient Temperature Laboratory Representative Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: 30/11/2023 04/12/2023 05/12/2023-15/12/2023

30/11/2023

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.83	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.27	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.79	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	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 Kinjal Damor

Aut

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Page No: 1/2

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M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1714C/79I/V3/07 Laboratory Representative Ambient Air Near Haul Road Ambient Temperature Laboratory Representative

Sampling Start Date: 30/11/2023 Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

30/11/2023 04/12/2023

05/12/2023-15/12/2023

Total Sampling hours:	24
Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Kinjal Damor

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/08

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



TC-7073

30/11/2023

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1714C/79I/V3/08 Laboratory Representative Ambient Air Near Electrical Substation **Ambient Temperature** Laboratory Representative Sampling Start Date: Sampling End Date: Sample Receipt Date:

01/12/2023 04/12/2023 Analysis start- End Date:

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

05/12/2023-15/12/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.84	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)	12.55	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.55	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 Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/08

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1714C/79I/V3/08 Laboratory Representative Ambient Air

Near Electrical Substation Ambient Temperature Laboratory Representative Sampling Start Date: 30/11/2023 Sampling End Date: 01/12/2023 Sample Receipt Date:

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

04/12/2023 05/12/2023-15/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	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	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Kinjal Damor

- End of Report -

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/09

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1714C/79I/V3/09 Laboratory Representative

Ambient Air Staff Colony

Ambient Temperature Laboratory Representative Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

30/11/2023 01/12/2023 04/12/2023

05/12/2023-15/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.42	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)	9.36	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.19	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.94	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

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

Analyzed By Kinjal Damor

Payal Patel

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Lab/PN/1714C/79I/V3/09

(M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

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

Laboratory Representative Ambient Air Staff Colony Ambient Temperature Env. Cond.-Sample Receipt: Laboratory Representative

Sampling Start Date: 30/11/2023 Sampling End Date: 01/12/2023 Sample Receipt Date: 04/12/2023 Analysis start- End Date: 05/12/2023-15/12/2023

Total Sampling hours: Env. Cond.-Testing: 25±5°C

IAAQ Standards
NS
NS
NS
1
NS

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

Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/10

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

Reporting Date: 16/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1714C/79I/V3/10

Laboratory Representative

Ambient Air Near Hospital

Ambient Temperature Laboratory Representative

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

30/11/2023 01/12/2023 04/12/2023

05/12/2023-15/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.88	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)	11.35	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.76	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	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

Kinjal Damor

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M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1714C/79I/V3/10 Laboratory Representative Ambient Air Near Hospital Ambient Temperature Laboratory Representative

Sampling Start Date: 30/11/2023 Sampling End Date: 01/12/2023 Sample Receipt Date: 04/12/2023 Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

05/12/2023-15/12/2023 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	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	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Kinjal Damor

Authorized Signatory Payal Patel

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1714C/79I/V3/11

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1714C/7 9I/V3/11A	Nr Compressor room	Day Time	dB(A)Leq	IS 4758	64.9	-
2	Lab/PN/1714C/7 9I/V3/11B	Near vertical fan	Day Time	dB(A)Leq	IS 4758	68.3	
3	Lab/PN/1714C/7 9I/V3/11C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	60.3	_
4	Lab/PN/1714C/7 9I/V3/11D	Near Jack hammer drill	Day Time	dB(A)Leq	IS 4758	69.6	T/LE

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

Kinjal Damor

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/01

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 13/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1715C/79J/V3/01

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

OCF Borewell (GW)

Sample Quantity:

4L

Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date:

04/12/2023

Analysis Start Date:

05/12/2023

30/11/2023

Analysis End Date: Sampling Method: 12/12/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.33	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	78.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	78.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.11976	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	25.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	200	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	66.93	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	370.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	225.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL and PL as per IS 10500

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

Analyzed By Jhanvi Chhasatiya AHMEDABAD STORY

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/01

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 13/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1715C/79J/V3/01

Laboratory Representative

Sample Drawn By: Sample Type:

Water

Sample Description:

OCF Borewell (GW)

Sample Quantity:

4L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

30/11/2023

04/12/2023

05/12/2023

12/12/2023

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.26	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as per IS 10500

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

Analyzed By Jhanvi Chhasatiya

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/01A

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur

(M.S)

SAMPLE DETAILS

Lab ID:

Lab/PN/1715C/79J/V3/01

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

OCF Borewell (GW)

Sample Quantity:

41

Sample Condition:

Satisfactory

Sampling Date:

30/11/2023

Sample Receipt Date: Analysis Start Date: 04/12/2023 05/12/2023

Analysis End Date:

12/12/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Reporting Date: 13/12/2023

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

AL and PL as per IS 10500

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

Analyzed By Jhanvi Chhasatiya

- End of Report -

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/02

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 13/12/2023



05/12/2023-12/12/2023

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1715C/79J/V3/02

Laboratory Representative Ambient Air Near OCF

Ambient Temperature

Satisfactory

Sampling Start Date: 30/11/2023 Sampling End Date: 01/12/2023 04/12/2023

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.07	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)	14.46	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
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)	1.16	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 Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/02

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 13/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1715C/79J/V3/02

Laboratory Representative Ambient Air

Near OCF

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 30/11/2023 01/12/2023 04/12/2023

05/12/2023-12/12/2023

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	55	%	GGMPL/SOP/MP/01	NS
14 Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15 Wind Speed	6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jhanvi Chhasatiya

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1715C/79J/V3/03

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur

(M.S)

Reporting Date: 11/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1715C/7 9J/V3/03A	Near OCF	Day Time	dB(A)Leq	IS 4758	65.2	-

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

Analyzed By Jhanvi Chhasatiya

End of Report -

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/01

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1716C/79K/V3/01

30/11/2023

Sample Drawn By:

Laboratory Representative

Sampling Date: Sample Receipt Date:

04/12/2023 04/12/2023

Sample Type: Sample Description: Waste Water W.W Pit No-2 Analysis Start Date: Analysis End Date:

09/12/2023

Sample Quantity:

4.5L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.45	-	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	90.00	mg/L	APHA 23rd Edn 5220 B	9 11 11 11
5	Dissolved Oxygen	5.40	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	21.33	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Jadav Vishal --- End of Report ---

Authorized Signatory Payal Patel

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/02

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1716C/79K/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

G.W Mine Borewell

Sample Quantity:

4.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

04/12/2023

Analysis Start Date:

04/12/2023

30/11/2023

Analysis End Date: Sampling Method: 09/12/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
. 1	pH at 25 °C	7.53	-	IS 3025-Part 11	6.5 -8.5	No relexation
2	Alkalinity as CaCO3	148.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	62.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.35	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	33.67	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	348.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	176.00	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 and PL as per IS 10500.

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

Analyzed By Jadav Vishal H AHMEDABAD P

Authorized Signatory Payal Patel

Page No: 1/2

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M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1716C/79K/V3/02

Sampling Date:

30/11/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date: 04/12/2023 04/12/2023

Sample Type: Sample Description: Water G.W Mine Borewell

Analysis Start Date: 04/1
Analysis End Date: 09/1

09/12/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.5L Satisfactory Sampling Method: Packing:

Sealed

ealed

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	0.09	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.06	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as per IS 10500.

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

Analyzed By Jaday Vishal

--- End of Report ---

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/02A

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1716C/79K/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

G.W Mine Borewell

Sample Quantity:

4.5L

Sample Condition:

Satisfactory

Sampling Date:

30/11/2023

Sample Receipt Date:

04/12/2023 04/12/2023

Analysis Start Date: Analysis End Date:

09/12/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL and PL as per IS 10500.

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

Analyzed By Jadav Vishal

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PBR

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/03

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1716C/79K/V3/03 Laboratory Representative Sampling Date:
Sample Receipt Date:
Analysis Start Date:

30/11/2023 04/12/2023

Sample Type:

Waste Water W.W of Mine Discharge water Analysis Start Date: Analysis End Date:

04/12/2023 09/12/2023 GGMPL/WI/27A

Sample Description: Sample Quantity:

4.5L

Sampling Method:

Sealed

Sample Condition:

Satisfactory

Packing: Se

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.85	-	IS 3025- Part 11	u -
2	Total Suspended Solids	29.00	mg/L	APHA 23rd Edn 2540 D	-1.1 4 15 14
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	=
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	e - 13 B // 12
5	Dissolved Oxygen	5.2	mg/L	IS 3025- Part 38	:-
6	BOD at 27 o C for 3 days	25.33	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.09	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Jaday Vishal

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/04

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1716C/79K/V3/04

Laboratory Representative

Ambient Air Bahkuri Road Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/11/2023

01/12/2023

04/12/2023

04/12/2023-09/12/2023

25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.08	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.25	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.56	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
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)	1.13	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 Jadav Vishal

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M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



SAMPLE DETAILS

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

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

Lab/PN/1716C/79K/V3/04 Laboratory Representative

Ambient Air Bahkuri Road

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

30/11/2023 01/12/2023 04/12/2023

04/12/2023-09/12/2023

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	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	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal

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Authorized Signatory Payal Patel

Page No: 2/2

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Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1716C/79K/V3/05

Laboratory Representative

Ambient Air Beldongri Road Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

04/12/2023

30/11/2023

01/12/2023

04/12/2023-09/12/2023

24 Env. Cond.-Testing:

25 ± 5 °C

	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.77	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)	14.07	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.12	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
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)	1.11	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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Report Number: GGMPL/PN/1716C/79K/V3/05

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1716C/79K/V3/05 Laboratory Representative

Ambient Air Beldongri Road Ambient Temperature

Satisfactory

Sampling Start Date: 30/11/2023 Sampling End Date: 01/12/2023 Sample Receipt Date: 04/12/2023

Analysis start- End Date: Total Sampling hours: 04/12/2023-09/12/2023

Total Sampling hours: 24 Env. Cond.-Testing: 25

 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°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	6.5	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 Payal Patel

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/06

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1716C/79K/V3/06

Laboratory Representative Ambient Air

Near Satak Road Ambient Temperature Satisfactory

Sampling Start Date:

30/11/2023 Sampling End Date: 01/12/2023 Sample Receipt Date: 04/12/2023

Analysis start- End Date:

04/12/2023-09/12/2023

Total Sampling hours: Env. Cond.-Testing:

25 ± 5 °C

2 Particulate Matter (PM2.5) 36.24 μg/m3 GGMPL/SOP/AA/60 Issue No.02 August 01 3 Sulphur Dioxide (SO2) 16.96 μg/m3 IS 5182-Part 2 88 4 Nitrogen Dioxide (NO2) 18.82 μg/m3 IS 5182- Part 6 88 5 Ozone (O3) BQL (QL=10) μg/m3 IS 5182- Part 9 10 6 Ammonia (NH3) 11.40 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12	tandards
2 Particulate Matter (FM2.3) 36.24 pg/m3 August 01 3 Sulphur Dioxide (SO2) 16.96 pg/m3 IS 5182-Part 2 4 Nitrogen Dioxide (NO2) 18.82 pg/m3 IS 5182- Part 6 5 Ozone (O3) 6 Ammonia (NH3) 11.40 pg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene 8 BQL (QL=2.5) pg/m3 IS 5182- Part 11 8 Benzo(a) pyrene 8 BQL (QL=0.5) ng/m3 Is 5182- Part 12	00
4 Nitrogen Dioxide (NO2) 18.82 μg/m3 IS 5182- Part 6 8 5 Ozone (O3) BQL (QL=10) μg/m3 IS 5182- Part 9 10 6 Ammonia (NH3) 11.40 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12	0
5 Ozone (O3) BQL (QL=10) μg/m3 IS 5182- Part 9 Ammonia (NH3) 11.40 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12	0
6 Ammonia (NH3) 11.40 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12	0
8 Benzo(a) pyrene 11.40 μg/Nm3 August 01 August 01 8 Benzo(a) pyrene BQL (QL=2.5) μg/m3 Is 5182- Part 12	00
8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12	00
	5
9 Carbon Monoxide (CO) 1.12 mg/m3 IS 5182- Part 10	
	1
10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4	0
11 Arsenic as As BQL (QL=1) ng/m3 USEPA Method IO 3.4	5

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

Analyzed By Jadav Vishal Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/06

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1716C/79K/V3/06 Laboratory Representative Ambient Air

Near Satak Road Ambient Temperature

Satisfactory

Sampling Start Date: 30/11/2023 01/12/2023 Sampling End Date: 04/12/2023 Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

04/12/2023-09/12/2023 24

 25 ± 5 °C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°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	6.5	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 --

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/07

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 05/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1716C/79K/V3/07

Laboratory Representative Ambient Air Near Pit No-2

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours:

Env. Cond.-Testing:

04/12/2023 Analysis start- End Date: 30/11/2023-04/12/2023

25 ± 5 °C

30/11/2023

01/12/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.03	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)	14.61	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.39	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
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)	1.11	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 **Authorized Signatory** Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/07

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 05/12/2023



TC-7073

SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1716C/79K/V3/07 Laboratory Representative

Ambient Air Near Pit No-2

Ambient Temperature Satisfactory Sampling Start Date: 30/11/2023
Sampling End Date: 01/12/2023
Sample Receipt Date: 04/12/2023

Analysis start- End Date: Total Sampling hours: 30/11/2023-04/12/2023

Env. Cond.-Testing: 25 ±

25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	51	%	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 - 1
16	Wind Speed	6.5	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 Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1716C/79K/V3/08

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 11/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1716C/7 9K/03/08A	Bahkuri Road	Day Time	dB(A)Leq	IS 4758	54.9	-
2	Lab/PN/1716C/7 9K/03/08B	Beldongri Road	Day Time	db(A)Leq	IS 4758	56.9	Principle I
3	Lab/PN/1716C/7 9K/03/08C	Satak Road	Day Time	dB(A)Leq	IS 4758	57.8	-
4	Lab/PN/1716C/7 9K/03/08D	Nr. Pit No-2	Day Time	dB(A)Leq	IS 4758	54.8	

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/1717C/79L/V3/01

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1717C/79L/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Mine Discharge Water (WW)

3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

2: 15/12/2023 : GGMPL/WI/27A

30/11/2023 04/12/2023

05/12/2023

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	-	IS 3025- Part 11	-
2	Total Suspended Solids	10.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	22	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.40	mg/L	APHA 23rd Edn 3120 B	-

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

6

Analyzed By Dishant Patel --- End of Report ---

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/02

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 14/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1717C/79L/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description: Sample Quantity:

Hiwra Village Borewell (GW)

Sample Condition: Satisfactory

3.5 L

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

05/12/2023 13/12/2023 GGMPL/WI/27A

30/11/2023

04/12/2023

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.29	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	64.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	13.73	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	240.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	201.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Dishant Pate

Authorized Signatory Payal Patel

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/02

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 14/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1717C/79L/V3/02 Laboratory Representative Sampling Date: Sample Receipt Date: 30/11/2023 04/12/2023 05/12/2023

Sample Drawn By: Sample Type:

Water

Analysis Start Date: Analysis End Date:

13/12/2023

Sample Description:

Hiwra Village Borewell (GW) 3.5 L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
· 14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
. 15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.26	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 Dishant Patel

HMEDABAD End of Report

Authorized Signatory Payal Patel

Page No: 2/2

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Report Number: GGMPL/PN/1717C/79L/V3/02A

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 14/12/2023

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Water

Sample Type: Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1717C/79L/V3/02

Laboratory Representative

Hiwra Village Borewell (GW)

3.5 L

Satisfactory

Sampling Date:

30/11/2023 04/12/2023

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

GGMPL/WI/27A Sealed

05/12/2023

13/12/2023

Packing:

Specification:

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

AL & PL As Per IS 10500

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

Analyzed By Dishant Patel

- End of Report

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Page No: 1/1

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Report Number: GGMPL/PN/1717C/79L/V3/03

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1717C/79L/V3/03

Sampling Date:

30/11/2023

Sample Drawn By:

Laboratory Representative

Bankuri Village Borewell (GW)

Sample Receipt Date:

04/12/2023 05/12/2023

Sample Type:

Water

Analysis Start Date: Analysis End Date:

15/12/2023

Sample Description: Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.41	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	131.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	48.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.27	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	17.25	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.94	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	263.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	165.00	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 AHMEDABAD PY AHMEDAB PY AHMEDABAD PY AHMEDABAD PY AHMEDABAD PY AHMEDABAD PY AHMEDAB

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Report Number: GGMPL/PN/1717C/79L/V3/03

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1717C/79L/V3/03

Laboratory Representative

Water

Bankuri Village Borewell (GW) 3.5 L

Sample Quantity: Sample Condition:

Sample Drawn By:

Sample Description:

Sample Type:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

15/12/2023 GGMPL/WI/27A

Sealed

30/11/2023

04/12/2023

05/12/2023

Packing:

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	0.05	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.59	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 Dishant Patel

- End of Report --

MEDABAD

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/03A

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1717C/79L/V3/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Bankuri Village Borewell (GW)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

30/11/2023

Sample Receipt Date:

04/12/2023

Analysis Start Date:

05/12/2023

Analysis End Date: Sampling Method:

15/12/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

Al & PL As per IS 10500

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

Analyzed By Dishant Patel

-- End of Report

Authorized Signatory Payal Patel

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/04

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1717C/79L/V3/04

Laboratory Representative

Ambient Air Near Mine Pit

Ambient Temprature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 30/11/2023

01/12/2023 04/12/2023

05/12/2023-15/12/2023

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.60	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.75	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.06	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.18	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.11	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

Analyzed By Dishant Patel AHMEDABAD VI

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Page No: 1/2

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Report Number: GGMPL/PN/1717C/79L/V3/04

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1717C/79L/V3/04 Laboratory Representative

Ambient Air Near Mine Pit

Ambient Temprature Satisfactory Sampling Start Date: 3
Sampling End Date: 0

Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 30/11/2023 01/12/2023 04/12/2023

05/12/2023-15/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Te	emperature	28	°C	GGMPL/SOP/MP/01	NS
13 Re	elative Humidity	54	%	GGMPL/SOP/MP/01	NS
14 Le	ead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15 Wi	ind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel AMMEDABAD End of Report

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M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1717C/79L/V3/05

Laboratory Representative

Ambient Air

Near East Boundary Wall Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/11/2023

01/12/2023 04/12/2023

05/12/2023-15/12/2023

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.18	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.33	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.92	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.63	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	16.67	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

Analyzed By Dishant Patel

Authorized Signatory Payal Patel

Page No: 1/2

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/05

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1717C/79L/V3/05 Laboratory Representative

Ambient Air

Near East Boundary Wall Ambient Temprature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/11/2023 01/12/2023 04/12/2023

05/12/2023-15/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°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	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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- End of Repor

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/06

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



30/11/2023

01/12/2023

04/12/2023

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1717C/79L/V3/06 Laboratory Representative

Ambient Air

Near West Boundary Wall Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

05/12/2023-15/12/2023 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.79	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)	10.83	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.54	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.72	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.89	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)	1.14	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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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/06

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1717C/79L/V3/06

Laboratory Representative

Ambient Air

Near West Boundary Wall

Ambient Temprature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing: 25±5°C

01/12/2023 04/12/2023

30/11/2023

05/12/2023-15/12/2023

Sr.No Parameters	Results U	nit Test Method	NAAQ Standards
12 Temperature	29	C GGMPL/SOP/MP/01	NS
13 Relative Humidity	56	6 GGMPL/SOP/MP/01	NS
14 Lead BC	QL (QL=0.001) μg,	m3 USEPA Method IO 3.4	1 .
15 Wind Speed	6.5 m	s GGMPL/SOP/MP/01:202	0 NS

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

Analyzed By Dishant Patel End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/07

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



TC-7073

SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1717C/79L/V3/07 Laboratory Representative

Ambient Air

Near South Boundary Wall Ambient Temprature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

30/11/2023 01/12/2023

04/12/2023 05/12/2023-15/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.75	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)	11.86	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.56	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.02	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	16.67	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)	1.14	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 AHMEDABAD PV

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/07

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist, Nagpur (M.S)

Reporting Date: 16/12/2023



TC-7073

SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1717C/79L/V3/07 Laboratory Representative

Ambient Air

Near South Boundary Wall Ambient Temprature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 30/11/2023 01/12/2023 04/12/2023

05/12/2023-15/12/2023

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	57	%	GGMPL/SOP/MP/01	NS
14 Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15 Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

--- End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1717C/79L/V3/08

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)

Reporting Date: 16/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Laboratory Representative

Sampling Date:

Sample Description:

30/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1 .	Lab/PN/1717C/7 9L/V3/08A	Nr. Mine Pit	Day Time	dB(A)Leq	IS 4758	64.8	-
2 .	Lab/PN/1717C/7 9L/V3/08B	Nr. Este Boundry Wall	Day Time	dB(A)Leq	IS 4758	64.2	1 1-4
3	Lab/PN/1717C/7 9L/V3/08C	Nr.West Boundry Wall	Day Time	dB(A)Leq	IS 4758	63.1	
4	Lab/PN/1717C/7 9L/V3/08D	Nr.South Boundry Wall	Day Time	dB(A)Leq	IS 4758	61.5	

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

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