

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1634C/38A/V3/01

Reporting Date : 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/01	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Nr. Officer colony Borewell Water (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	5.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

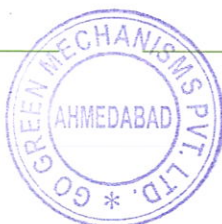
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.40	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	49.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.23	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	11.42	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	31.26	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	258.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	142.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AI & PL As Per IS 10500

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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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Nr. Officer colony Borewell Water (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	5.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

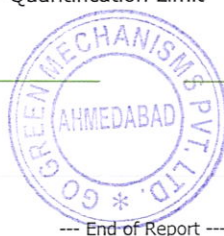
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.97	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL As Per IS 10500

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Analyzed By
Dishant Patel



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Payal Patel

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Report Number: GGMPL/PN/1634C/38A/V3/01A

Reporting Date : 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur

SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/01	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Nr. Officer colony Borewell Water (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	5.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AI & PL As Per IS 10500

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1634C/38A/V3/02

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 30/11/2023



SAMPLE DETAILS

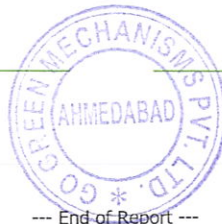
Lab ID:	Lab/PN/1634C/38A/V3/02	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Wastewater	Analysis Start Date:	22/11/2023
Sample Description:	Near Pit Water U/G Source (WW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.21	-	IS 3025- Part 11	-
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	25	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.48	mg/L	APHA 23rd Edn 3120 B	-

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Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/03	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Nr Staff Quarter Borewell Water (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	5.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.38	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	129.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.88	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	35.07	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	230.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	145.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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Lab ID:	Lab/PN/1634C/38A/V3/03	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Nr Staff Quarter Borewell Water (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	5.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

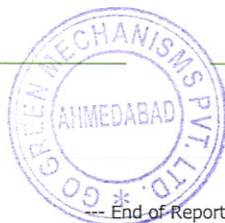
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	BQL (QL=0.5)	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

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SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/03	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Nr Staff Quarter Borewell Water (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	5.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/04	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Mine Pit Office	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.39	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)	11.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.14	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.55	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Head Office & Lab

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Gujarat. INDIA

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1634C/38A/V3/04

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



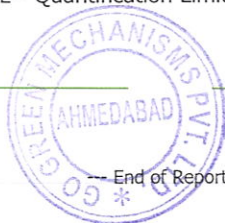
SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/04	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Mine Pit Office	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Dishant Patel




Authorized Signatory
Payal Patel

--- End of Report ---

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1634C/38A/V3/05

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/05	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Workshop	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.72	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)	13.00	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.09	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1634C/38A/V3/05

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/05	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Workshop	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	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/1634C/38A/V3/06

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/06	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Crushing Plant	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.43	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)	12.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.36	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



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Report Number : GGMPL/PN/1634C/38A/V3/06

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



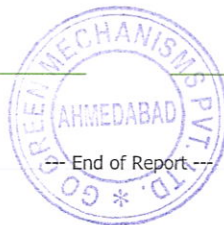
SAMPLE DETAILS

Lab ID:	Lab/PN/1634C/38A/V3/06	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Crushing Plant	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Dishant Patel




Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1634C/38A/V3/07

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

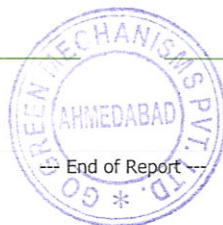
Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 18/11/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1634C/38A/V3/07A	Near cabal Bolting Opration	Day Time	dB(A)Leq	IS 4758	65.4	-
2	Lab/PN/1634C/38A/V3/07B	Near Jack Hammer Drill Machine	Day Time	dB(A)Leq	IS 4758	67.8	-
3	Lab/PN/1634C/38A/V3/07C	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63.9	-

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

Analyzed By
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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1635C/38B/V3/01

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 30/11/2023



SAMPLE DETAILS

Lab ID: Lab/PN/1635C/38B/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: W.W of ETP outlet
Sample Quantity: 4.5L
Sample Condition: Satisfactory

Sampling Date: 18/11/2023
Sample Receipt Date: 21/11/2023
Analysis Start Date: 22/11/2023
Analysis End Date: 29/11/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	8.40	-	IS 3025- Part 11	5.5 to 8.5
2	Total Suspended Solids	71.00	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	30.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	6.4	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	11	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

Analyzed By
Dishant Patel



--- End of Report ---

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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1635C/38B/V3/02

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1635C/38B/V3/02	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Check Post (main gate)	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.59	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.18	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.10	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.09	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.55	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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1635C/38B/V3/02

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1635C/38B/V3/02	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Check Post (main gate)	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Dishant Patel



Authorized Signatory
Payal Patel

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Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1635C/38B/V3/03	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Gumgaon Village (gram panchayat)	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.05	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)	12.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.04	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.4	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1636C/38C/V3/01

Reporting Date : 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1636C/38C/V3/01	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Khapa Village Handpump (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

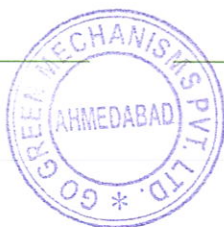
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	135.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	30.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	24.54	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	30.46	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	285.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	195.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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



Analyzed By
Dishant Patel




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Payal Patel

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Reporting Date : 30/11/2023

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Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS


Lab ID:	Lab/PN/1636C/38C/V3/01	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Khapa Village Handpump (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

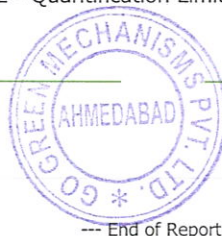
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.5	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 Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.96	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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Analyzed By
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CERTIFICATE OF ANALYSIS

Report Number: GGMLP/PN/1636C/38C/V3/01A

Reporting Date : 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur

SAMPLE DETAILS

Lab ID:	Lab/PN/1636C/38C/V3/01	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Khapa Village Handpump (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMLP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

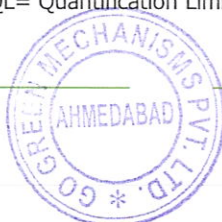
Specification:

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

AL & PL As Per IS 10500

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Reporting Date : 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073


SAMPLE DETAILS

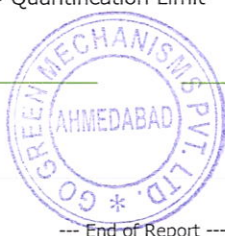
Lab ID:	Lab/PN/1636C/38C/V3/02	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Waste Water	Analysis Start Date:	22/11/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.32	-	IS 3025- Part 11	NS
2	Total Suspended Solids	12.00	mg/L	APHA 23rd Edn 2540 D	50
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	3.40	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	19	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.40	mg/L	APHA 23rd Edn 3120 B	NS

Norms as Per CCA

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Reporting Date : 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1636C/38C/V3/03	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Waste Water	Analysis Start Date:	22/11/2023
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	29/11/2023
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	7.25	-	IS 3025- Part 11	-
2	Total Suspended Solids	BQL(QL=10)	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	19.16	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.46	mg/L	APHA 23rd Edn 3120 B	-

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1636C/38C/V3/04

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1636C/38C/V3/04	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Grampanchayat Tigai Village	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.84	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.80	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.72	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)	1.04	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
Dishant Patel




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1636C/38C/V3/04

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

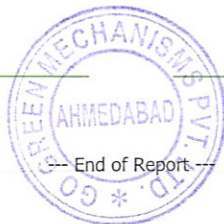
Lab ID:	Lab/PN/1636C/38C/V3/04	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Grampanchayat Tigai Village	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°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	3.4	m/s	GGMPL/SOP/MP/01:2020	NS

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



Analyzed By
Dishant Patel




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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1636C/38C/V3/05

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

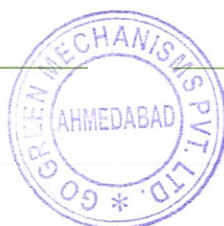
SAMPLE DETAILS

Lab ID:	Lab/PN/1636C/38C/V3/05	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near High Speed Vertical Shaft	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.174	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)	10.16	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.67	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)	1.04	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1636C/38C/V3/05

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS


Lab ID:	Lab/PN/1636C/38C/V3/05	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near High Speed Vertical Shaft	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1636C/38C/V3/06

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1636C/38C/V3/06	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Bus Stand Khapa Village	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.20	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.10	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.36	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)	1.04	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

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Report Number : GGMPL/PN/1636C/38C/V3/06

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1636C/38C/V3/06	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Bus Stand Khapa Village	Analysis start- End Date:	22/11/2023-29/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1636C/38C/V3/07

Reporting Date: 30/11/2023

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 18/11/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1636C/38C/V3/07A	Nr.Gram PAnchayat Tigai Village	Day Time	dB(A)Leq	IS 4758	64.5	-
2	Lab/PN/1636C/38C/V3/07B	Nr. High Speed vertical Sharft	Day Time	dB(A)Leq	IS 4758	65.6	-
3	Lab/PN/1636C/38C/V3/07C	Nr.Bus stand Khapa Village	Day Time	dB(A)Leq	IS 4758	61.2	-

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Head Office & Lab

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/1633C/43/V3/01

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/01	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Rest House Borewell (GW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

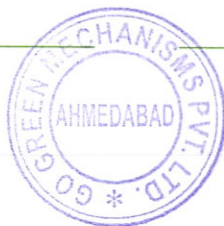
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	128.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	44.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.249	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	13.37	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.83	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	228.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	146.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	5.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AI & PL As Per IS 10500

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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1633C/43/V3/01

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID: Lab/PN/1633C/43/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House Borewell (GW)
Sample Quantity: 4.8L
Sample Condition: Satisfactory

Sampling Date: 18/11/2023
Sample Receipt Date: 21/11/2023
Analysis Start Date: 22/11/2023
Analysis End Date: 29/11/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.60	mg/L	APHA 23rd Edn 4500 NO3 B	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 ---

Authorized Signatory
Payal Patel

Page No : 2/2

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Head Office & Lab

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: GGMP/L/PN/1633C/43/V3/01A

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur

SAMPLE DETAILS

Lab ID: Lab/PN/1633C/43/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House Borewell (GW)
Sample Quantity: 4.8L
Sample Condition: Satisfactory

Sampling Date: 18/11/2023
Sample Receipt Date: 21/11/2023
Analysis Start Date: 22/11/2023
Analysis End Date: 29/11/2023
Sampling Method: GGMP/L/WI/27A
Packing: Sealed

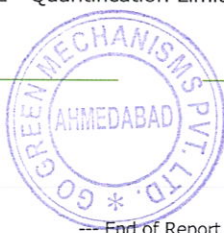
Specification:

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

AI & PL As Per IS 10500

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

Analyzed By
Dishant Patel



Authorized Signatory
Payal Patel

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1633C/43/V3/02

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/02	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.44	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	128.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	35.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	41.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.254	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	15.06	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	17.53	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	344.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	151.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (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

Analyzed By
Dishant Patel



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1633C/43/V3/02

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/02	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.5	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 Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.819	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL as per IS 10500

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

Analyzed By
Dishant Patel



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Payal Patel

Page No : 2/2

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1633C/43/V3/02A

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur

SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/02	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500

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Report Number: GGMPL/PN/1633C/43/V3/03

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/03	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

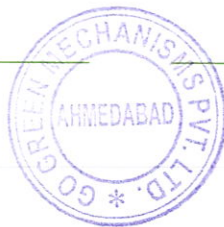
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	82.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	26.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	20.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.20	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.39	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	13.53	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	153.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	116.00	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

AI & PL As Per IS 10500

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Page No : 1/2

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Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/03	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

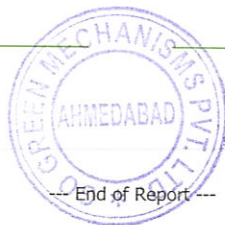
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.2	NTU	APHA 23rd Edn 2130 B	1	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	2.02	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & PL As Per IS 10500

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

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Page No : 2/2

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Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur

SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/03	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Water	Analysis Start Date:	22/11/2023
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	29/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AI & PL As Per IS 10500

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

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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/1633C/43/V3/04

Reporting Date : 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/04	Sampling Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/11/2023
Sample Type:	Wastewater	Analysis Start Date:	22/11/2023
Sample Description:	WTP Outlet Water	Analysis End Date:	30/11/2023
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.19	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	BQL (QL=10)	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	55.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	12.00	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.43	mg/L	APHA 23rd Edn 3120 B	2

Norms As per CCA

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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1633C/43/V3/05

Reporting Date: 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/05	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Rest House	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.74	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)	15.11	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.77	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



Analyzed By
Dishant Patel




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Payal Patel

Page No : 1/2

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M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/05	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Rest House	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	54	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1633C/43/V3/06

Reporting Date: 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/06	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Sand Leases Area	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.76	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.70	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.08	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.31	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



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Payal Patel

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Report Number : GGMPL/PN/1633C/43/V3/06

Reporting Date: 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

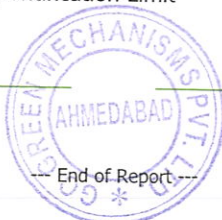
Lab ID:	Lab/PN/1633C/43/V3/06	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Sand Leases Area	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1633C/43/V3/07

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date: 30/11/2023



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/07	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.17	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)	11.51	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.09	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)	1.08	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

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Report Number : GGMPL/PN/1633C/43/V3/07

Reporting Date: 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

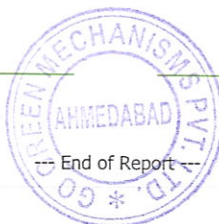
Lab ID:	Lab/PN/1633C/43/V3/07	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	748	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1633C/43/V3/08

Reporting Date: 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/08	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.97	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.10	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.46	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.55	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)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1633C/43/V3/08

Reporting Date: 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



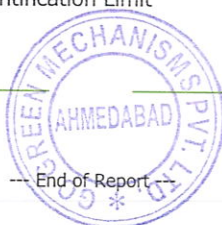
SAMPLE DETAILS

Lab ID:	Lab/PN/1633C/43/V3/08	Sampling Start Date:	18/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	21/11/2023
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	22/11/2023-30/11/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Dishant Patel



Authorized Signatory
Payal Patel

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1633C/43/V3/09

Reporting Date: 30/11/2023

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

18/11/2023

Sample By : Laboratory Representative

Sample Description:

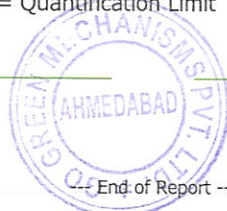
Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1633C/4 3/V3/09A	Near Rest House	Day Time	dB(A)Leq	IS 4758	56.8	-
2	Lab/PN/1633C/4 3/V3/09B	Near Sand Lease	Day Time	dB(A)Leq	IS 4758	55.4	-
3	Lab/PN/1633C/4 3/V3/09C	Near Houli Road	Day Time	dB(A)Leq	IS 4758	54.9	-
4	Lab/PN/1633C/4 3/V3/09D	Near Filtration Plant	Day Time	dB(A)Leq	IS 4758	62.6	-

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



Analyzed By
Dishant Patel




Authorized Signatory
Payal Patel

End of Report ---

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