

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2409C/38A/V4/01

Reporting Date : 07/03/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2409C/38A/V4/01	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Nr. Officer colony Borewell Water (GW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

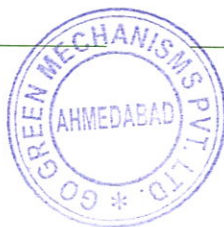
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.67	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	143.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	43.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	49.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.17	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	11.66	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	38.41	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	156.00	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

AL & PL As Per IS 10500.

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


Analyzed By
Nidhi Shah




Authorized Signatory
Manish Kumawat

Page No : 1/2

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

Reporting Date : 07/03/2024



SAMPLE DETAILS

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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Nr. Officer colony Borewell Water (GW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

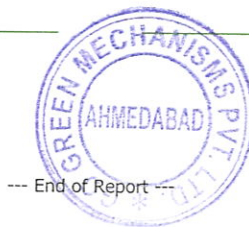
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	1.64	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

Nidhi
Analyzed By
Nidhi Shah



Manish
Authorized Signatory
Manish Kumawat

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Reporting Date : 07/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/01	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Nr. Officer colony Borewell Water (GW)	Analysis End Date:	06/03/2024
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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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Reporting Date : 07/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/02	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Nr Staff Quarter Borewell Water (GW)	Analysis End Date:	06/03/2024
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	7.51	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	35.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	43.48	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	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	39.10	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	261.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	152.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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Lab ID:	Lab/PN/2409C/38A/V4/02	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Nr Staff Quarter Borewell Water (GW)	Analysis End Date:	06/03/2024
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	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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Reporting Date : 07/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/02	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Nr Staff Quarter Borewell Water (GW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

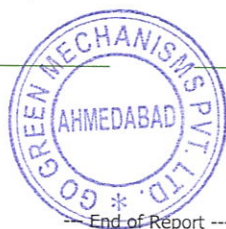
Specification:

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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

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M/s Moil Limited

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

Reporting Date : 07/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/03	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	Near Pit Water U/G Source (WW)	Analysis End Date:	06/03/2024
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	7.61	-	IS 3025- Part 11	-
2	Total Suspended Solids	28.00	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	-
5	Dissolved Oxygen	5.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	35	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.37	mg/L	APHA 23rd Edn 3120 B	-

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Reporting Date: 07/03/2024




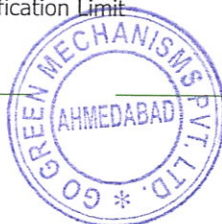
SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/04	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Crushing Plant	Analysis start- End Date:	27/02/2024-06/03/2024
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)	72.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.14	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.80	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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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M/s Moil Limited

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



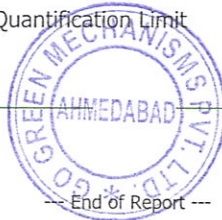
SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/04	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Crushing Plant	Analysis start- End Date:	27/02/2024-06/03/2024
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	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Nidhi Shah



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2409C/38A/V4/05

Reporting Date: 07/03/2024

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/2409C/38A/V4/05	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Mine Pit Office	Analysis start- End Date:	27/02/2024-06/03/2024
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)	64.056	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)	10.82	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.73	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)	1.09	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

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

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2409C/38A/V4/05

Reporting Date: 07/03/2024

M/s Moil Limited

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




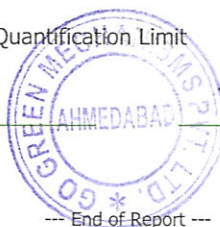
SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/05	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Mine Pit Office	Analysis start- End Date:	27/02/2024-06/03/2024
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	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.3	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Nidhi Shah




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2409C/38A/V4/06

Reporting Date: 07/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/06	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Workshop	Analysis start- End Date:	27/02/2024-06/03/2024
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)	65.52	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)	10.85	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.04	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Nidhi Shah




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2409C/38A/V4/06

Reporting Date: 07/03/2024

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/2409C/38A/V4/06	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Workshop	Analysis start- End Date:	27/02/2024-06/03/2024
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	49	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.3	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/2409C/38A/V4/07

Reporting Date: 07/03/2024

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: 24/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2409C/3 8A/V4/07A	Nr Vertical Fan	Day Time	dB(A)Leq	IS 4758	66.6	
2	Lab/PN/2409C/3 8A/V4/07B	Nr Cabal Bolting Operation	Day Time	dB(A)Leq	IS 4758	64.3	
3	Lab/PN/2409C/3 8A/V4/07C	Nr Jack Hammmer Dril Machine	Day Time	dB(A)Leq	IS 4758	67.4	

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2410C/38B/V4/01

Reporting Date : 11/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2410C/38B/V4/01	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Waste Water	Analysis Start Date:	28/02/2024
Sample Description:	W.W of ETP outlet	Analysis End Date:	09/03/2024
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	8.26	-	IS 3025- Part 11	5.5 to 8.5
2	Total Suspended Solids	60.00	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	40.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	6.00	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	12	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
Kinjal Damor



--- End of Report ---

Authorized Signatory
Manish Kumawat

Page No : 1/1

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Reporting Date: 11/03/2024

M/s Moil Limited

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



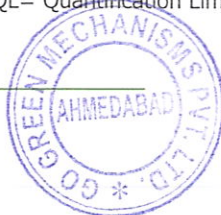
SAMPLE DETAILS

Lab ID:	Lab/PN/2410C/38B/V4/02	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Check Post (main gate)	Analysis start- End Date:	28/02/2024-09/03/2024
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)	68.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.24	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.98	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	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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Kinjal Damor



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Manish Kumawat

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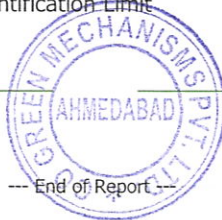
SAMPLE DETAILS

Lab ID:	Lab/PN/2410C/38B/V4/02	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Check Post (main gate)	Analysis start- End Date:	28/02/2024-09/03/2024
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	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2410C/38B/V4/03

Reporting Date: 11/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2410C/38B/V4/03	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Gumgaon Village (gram panchayat)	Analysis start- End Date:	28/02/2024-09/03/2024
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)	70.37	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.14	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.80	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)	1.15	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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2410C/38B/V4/03

Reporting Date: 11/03/2024

M/s Moil Limited

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



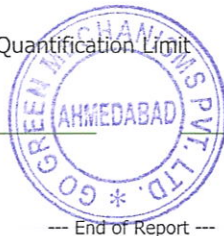
SAMPLE DETAILS

Lab ID:	Lab/PN/2410C/38B/V4/03	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Gumgaon Village (gram panchayat)	Analysis start- End Date:	28/02/2024-09/03/2024
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	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2410C/38B/V4/04

Reporting Date: 11/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 24/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2410C/38B/V4/04A	Nr. Check Post (Main Yard)	Day Time	dB(A)Leq	IS 4758	63.4	-
2	Lab/PN/2410C/38B/V4/04B	Gumgaon Village (Grampanchayat)	Day Time	dB(A)Leq	IS 4758	67.8	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2411C/38C/V4/01

M/s Moil Limited

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

Reporting Date : 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/01	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Waste Water	Analysis Start Date:	27/02/2024
Sample Description:	WW of mine Discharge	Analysis End Date:	07/03/2024
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	7.46	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	22.00	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	90.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	18	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
Jadav Vishal



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Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2411C/38C/V4/02

M/s Moil Limited

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

Reporting Date : 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/02	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Waste Water	Analysis Start Date:	27/02/2024
Sample Description:	WW of STP Outlet	Analysis End Date:	07/03/2024
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	7.55	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	19.00	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	5.90	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	12	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

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

Analyzed By
Jadav Vishal



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2411C/38C/V4/03

Reporting Date : 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/03	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	G.W of Khapa village Hand Pump	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

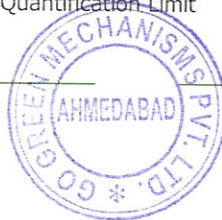
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.25	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	144.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	54.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.21	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	17.49	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	25.34	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	274.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	162.00	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

AL & PL as per IS 10500.

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

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Jadav Vishal



Authorized Signatory
Manish Kumawat

Page No : 1/2

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Reporting Date : 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/03	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	G.W of Khapa village Hand Pump	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

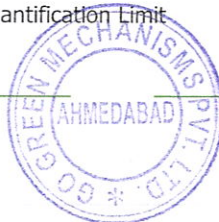
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.68	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
Jadav Vishal



Authorized Signatory
Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2411C/38C/V4/03A

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/03	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	27/02/2024
Sample Description:	G.W of Khapa village Hand Pump	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

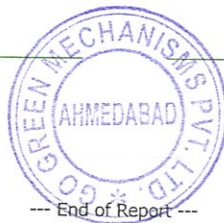
Specification:

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/100ml)	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
Jadav Vishal



Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2411C/38C/V4/04

Reporting Date: 08/03/2024

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/2411C/38C/V4/04	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Grampanchayat Tigai Village	Analysis start- End Date:	27/02/2024-07/03/2024
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)	68.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.79	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.46	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.12	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.98	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

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Jadav Vishal



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Report Number : GGMPL/PN/2411C/38C/V4/04

Reporting Date: 08/03/2024

M/s Moil Limited

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



TC-7073

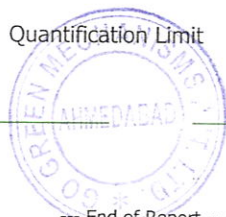
SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/04	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Grampanchayat Tigai Village	Analysis start- End Date:	27/02/2024-07/03/2024
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	42	%	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	1.66	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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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2411C/38C/V4/05

Reporting Date: 08/03/2024

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/2411C/38C/V4/05	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Bus Stand Khapa Village	Analysis start- End Date:	27/02/2024-07/03/2024
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)	70.08	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)	11.86	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.21	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.05	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.39	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2411C/38C/V4/05

Reporting Date: 08/03/2024

M/s Moil Limited

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



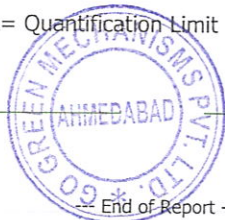
SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/05	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Bus Stand Khapa Village	Analysis start- End Date:	27/02/2024-07/03/2024
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	43	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	1.66	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/2411C/38C/V4/06

Reporting Date: 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/06	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near High Speed Vertical Shaft	Analysis start- End Date:	27/02/2024-07/03/2024
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)	72.09	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)	14.68	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.12	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.68	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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Report Number : GGMPL/PN/2411C/38C/V4/06

Reporting Date: 08/03/2024

M/s Moil Limited

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



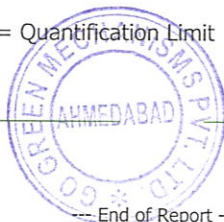
SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/V4/06	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near High Speed Vertical Shaft	Analysis start- End Date:	27/02/2024-07/03/2024
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	44	%	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	1.66	m/s	GGMPL/SOP/MP/01:2020	NS

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Head Office & Lab

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2411C/38C/V4/07

Reporting Date: 08/03/2024

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: 24/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2411C/38C/V4/07A	Near Grampanchayat tigai Village	Day Time	dB(A)Leq	IS 4758	60.4	-
2	Lab/PN/2411C/38C/V4/07B	Near High speed vertical shaft	Day Time	dB(A)Leq	IS 4758	63.8	-
3	Lab/PN/2411C/38C/V4/07C	Near Bus stand Khapa village	Day Time	dB(A)Leq	IS 4758	65.6	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2408C/43/V4/01

Reporting Date : 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2408C/43/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House Borewell (GW)
Sample Quantity: 4.8L
Sample Condition: Satisfactory

Sampling Date: 24/02/2024
Sample Receipt Date: 27/02/2024
Analysis Start Date: 28/02/2024
Analysis End Date: 07/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.35	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	200.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	50.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	13.12	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	20.49	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	300.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	152.00	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 & PL As Per IS 10500

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

Priyanka
Analyzed By
Priyanka Shrimali



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2408C/43/V4/01

M/s Moil Limited

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

Reporting Date : 08/03/2024



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/2408C/43/V4/01	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Rest House Borewell (GW)	Analysis End Date:	07/03/2024
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	2.0	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	2.79	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2408C/43/V4/01A

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS


Lab ID:	Lab/PN/2408C/43/V4/01	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Rest House Borewell (GW)	Analysis End Date:	07/03/2024
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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2408C/43/V4/02

M/s Moil Limited

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

Reporting Date : 08/03/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/2408C/43/V4/02	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	07/03/2024
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	7.6	-	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	40.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	45.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	15.79	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	20.29	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	380.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	165.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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Report Number: GGMP/L/PN/2408C/43/V4/02

Reporting Date : 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/02	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

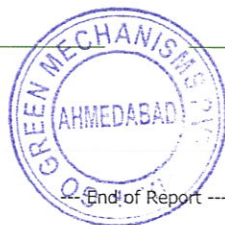
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.0	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	3.17	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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


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Report Number: GGMPL/PN/2408C/43/V4/02A

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS


Lab ID:	Lab/PN/2408C/43/V4/02	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	07/03/2024
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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent


AL & PL As Per IS 10500

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M/s Moil Limited

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

Reporting Date : 08/03/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/2408C/43/V4/03	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

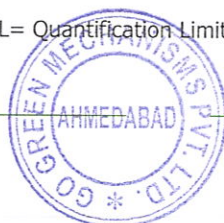
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.52	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	85.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	23.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	13.36	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.63	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	180.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	130.00	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

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Report Number: GGMPL/PN/2408C/43/V4/03

M/s Moil Limited

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

Reporting Date : 08/03/2024



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/2408C/43/V4/03	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

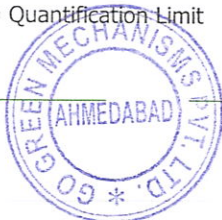
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.5	NTU	APHA 23rd Edn 2130 B	1	1.5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.36	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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Report Number: GGMPL/PN/2408C/43/V4/03A

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/03	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

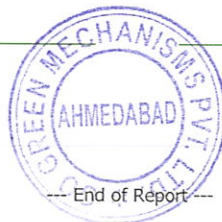
Specification:

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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2408C/43/V4/04

M/s Moil Limited

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

Reporting Date : 08/03/2024



SAMPLE DETAILS

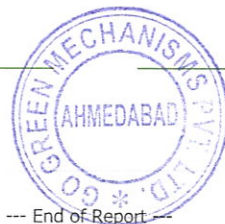
Lab ID:	Lab/PN/2408C/43/V4/04	Sampling Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/02/2024
Sample Type:	Water	Analysis Start Date:	28/02/2024
Sample Description:	WTP Outlet Water	Analysis End Date:	07/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	-	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	60.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	21	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 CTO

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2408C/43/V4/05

Reporting Date: 08/03/2024

M/s Moil Limited

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

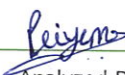


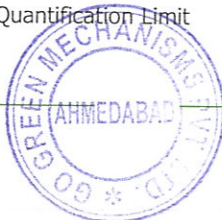
SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/05	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Rest House	Analysis start- End Date:	28/02/2024-07/03/2024
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)	72.49	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.46	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.73	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.96	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
Priyanka Shrimali




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2408C/43/V4/05

Reporting Date: 08/03/2024

M/s Moil Limited

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



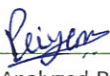
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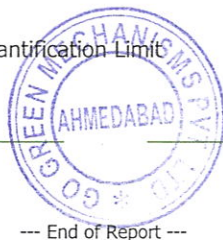
SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/05	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Rest House	Analysis start- End Date:	28/02/2024-07/03/2024
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	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali



--- End of Report ---


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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2408C/43/V4/06

Reporting Date: 08/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/06	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Sand Leases Area	Analysis start- End Date:	28/02/2024-07/03/2024
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)	66.79	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.15	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2408C/43/V4/06

Reporting Date: 08/03/2024

M/s Moil Limited

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



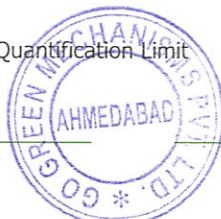
SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/06	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Sand Leases Area	Analysis start- End Date:	28/02/2024-07/03/2024
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	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali



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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/2408C/43/V4/07

Reporting Date: 08/03/2024

M/s Moil Limited

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




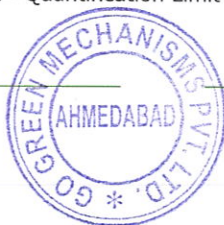
SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/07	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	28/02/2024-07/03/2024
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)	65.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	µg/m3	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.69	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.24	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.91	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	µg/Nm3	GGMP/L/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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2408C/43/V4/07

Reporting Date: 08/03/2024

M/s Moil Limited

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

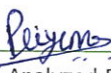


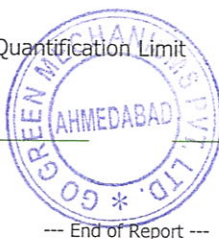
SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/07	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	28/02/2024-07/03/2024
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	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2408C/43/V4/08

Reporting Date: 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/08	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	28/02/2024-07/03/2024
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)	69.89	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.58	µg/m3	IS 5182-Part 2	60
4	Nitrogen Dioxide (NO2)	17.08	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.04	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.68	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
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2408C/43/V4/08

Reporting Date: 08/03/2024

M/s Moil Limited

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

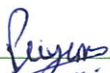


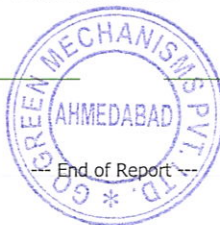
SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/08	Sampling Start Date:	24/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/02/2024
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	28/02/2024-07/03/2024
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	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	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/2408C/43/V4/09

Reporting Date: 08/03/2024

M/s Moil Limited
Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur




SAMPLE DETAILS

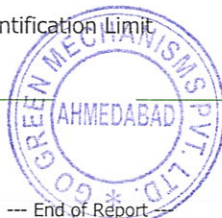
Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 24/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2408C/4 3/V4/09A	Near Rest House	Day Time	dB(A)Leq	IS 4758	52.9	-
2	Lab/PN/2408C/4 3/V4/09B	Near Sand Lease	Day Time	dB(A)Leq	IS 4758	50.3	-
3	Lab/PN/2408C/4 3/V4/09C	Near Houli Road	Day Time	dB(A)Leq	IS 4758	57.1	-
4	Lab/PN/2408C/4 3/V4/09D	Near Filtration Plant	Day Time	dB(A)Leq	IS 4758	60.3	-

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


Analyzed By
Priyanka Shrimali



--- End of Report ---


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