

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/2409C/38A/V4/01

M/s Moil Limited

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



## SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Laboratory F Water	9C/38A/V4/01 Representative Dlony Borewell Wa	ter (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 06/03/2024 GGMPL/WI/27 Sealed		pecification:
Sr.N	o Paramet	ters	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 CaCO3		143.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		43.28	mg/L	APHA 23rd Edn 3500 Ca E	1	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 E	3	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		38.41	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solids	5	288.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	CO3	156.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Solid	ds (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

CHAN Analyzed By AHMEDAB Authorized Signatory Nidhi Shah Manish Kumawat

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



# SAMPLE DETAILS

Sample Sample Sample	Lab ID:Lab/PN/2409C/38A/V4/01Sample Drawn By:Laboratory RepresentativeSample Type:WaterSample Description:Nr. Officer colony Borewell Water (GW)Sample Quantity:4.8LSample Condition:Satisfactory		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 06/03/2024 GGMPL/WI/274 Sealed	Ą				
								9	Specification:
Sr.No		Paramete	ers	Results	Unit	Test Method		AL	PL
13	Turbidity			BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B		1	5
14	Iron as Fe			BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B		0.3	No Relaxation
15	Manganese	as Mn		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B		0.1	0.3
16	Nitrate			1.64	mg/L	APHA 23rd Edn 4500 NO3	В	45	No Relaxation

AL & PL As Per IS 10500.

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur Reporting Date : 07/03/2024

## SAMPLE DETAILS

Sample Sample Sample	o: e Drawn By: e Type: e Description: e Quantity: e Condition:	Water	C/38A/V4/01 epresentative lony Borewell Wate	er (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 06/03/2024 GGMPL/WI/27 Sealed		Specification:
Sr.No	Paramete	ers*	Results	Unit	Test Method		AL	PL
1	Total Coliform (MPN/	100ml)	Absent	MPN/100ml	IS 1622		Absent	Absent
2	E.Coli (MPN/100ml)		Absent	MPN/100ml	IS 1622		Absent	Absent



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

joll, Analyzed By Nidhi Shah

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--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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Report Number: GGMPL/PN/2409C/38A/V4/02 M/s Moil Limited Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur



# SAMPLE DETAILS

Lab ID: Sample Draw Sample Type: Sample Descr Sample Quan Sample Condi	n By: Laborat Water iption: Nr Staft tity: 4.8L	/2409C/38A/V4/02 tory Representative f Quarter Borewell V tory		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 06/03/2024 GGMPL/WI/27A Sealed		
							Specification:
Sr.No	Parameters	Results	Unit	Test Method	AI		PL
1 pH at	25 °C	7.51	-	IS 3025-Part 11	6.	5-8.5	No Relaxation
2 Alkalir	nity as CaCO3	136.00	ma/L	APHA 23rd Edn 2320 B	20	00	600

	Print Lo C	7.51		15 5025-Part 11	6.5-8.5	Relaxation
2	Alkalinity as CaCO3	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	e Agreeable
9	Sulphate	39.10	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	261.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

### AL & PL As Per IS 10500.

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Analyzed By Nidhi Shah

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Authorized Signatory Manish Kumawat

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



## SAMPLE DETAILS

Sample Sample Sample	e Drawn By:	Laboratory Re Water	C/38A/V4/02 epresentative ter Borewell Wate	er (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 06/03/2024 GGMPL/WI/27 Sealed	A	
								Specification:
Sr.No	Paramet	ers	Results	Unit	Test Method		AL	PL
13	Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B		1	5
14	Iron as Fe		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B		0.3	No Relaxation
15	Manganese as Mn		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B		0.1	0.3
16	Nitrate		BQL (QL=0.5)	mg/L	APHA 23rd Edn 4500 NO3	В	45	No Relaxation

AL & PL As Per IS 10500.

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Report Number: GGMPL/PN/2409C/38A/V4/02A

M/s Moil Limited

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

Reporting Date : 07/03/2024

## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:		Laboratory F Water	9C/38A/V4/02 Representative rter Borewell Wat	ter (GW)	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 06/03/2024 GGMPL/WI/27A Sealed		Specification:
Sr.No	Parame	torc*	Deculto	11.2				Specification.
51.140			Results	Unit	Test Method		AL	PL
1	Total Coliform (MPN	l/100ml)	Absent	MPN/100ml	IS 1622		Absent	Absent
2	E.Coli (MPN/100ml)		Absent	MPN/100ml	IS 1622		Absent	Absent



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

HAM HMEDAB Analyzed By Authorized Signatory Nidhi Shah Manish Kumawat \* End of Report ---

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Report Number: GGMPL/PN/2409C/38A/V4/03

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/V4/03	(WW)	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 (		Analysis End Date:	06/03/2024
Sample Quantity:	4.5L		Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory		Packing:	Sealed
Sr.No Parar	neters Results	Unit	Test Method	Norm

	, and indicate	results	Offic	i cat i i cui lou	INOLITI
1	pH at 25 °C	7.61		IS 3025- Part 11	-
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	1.
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 o C for 3 days	35	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.37	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Nidhi Shah

AI 21 AHMEDABAD 11 5 ٤) \* End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number : GGMPL/PN/2409C/38A/V4/04

M/s Moil Limited

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



## SAMPLE DETAILS

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

Lab/PN/2409C/38A/V4/04 Laboratory Representative Ambient Air Near Crushing Plant Ambient Temperature Satisfactory

Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:27/02/2024-06/03/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$ 

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

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

Analyzed By Nidhi Shah

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Authorized Signatory Manish Kumawat

Page No : 1/2

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## Reporting Date: 07/03/2024



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M/s Moil Limited

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



## SAMPLE DETAILS

Lab/PN/2409C/38A/V4/04	Sampling Start Date:
Laboratory Representative	Sampling End Date:
Ambient Air	Sample Receipt Date:
Near Crushing Plant	Analysis start- End Date:
Ambient Temperature	Total Sampling hours:
Satisfactory	Env. CondTesting:
	Laboratory Representative Ambient Air Near Crushing Plant Ambient Temperature

24/02/2024 25/02/2024 27/02/2024 27/02/2024-06/03/2024 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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

Analyzed By Nidhi Shah

HMEDABAD - End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Reporting Date: 07/03/2024



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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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



Reporting Date: 07/03/2024

## SAMPLE DETAILS

Lab ID: Lab/PN/2409C/38A/V4/05 Sample Drawn By: Laboratory Representative Sample Type: Ambient Air Sample Description: Near Mine Pit Office Env. Cond.-Sampling: Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 24/02/2024 Sampling End Date: 25/02/2024 Sample Receipt Date: 27/02/2024 Analysis start- End Date: 27/02/2024-06/03/2024 Total Sampling hours: 24 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

CHAA Analyzed By AHMEDAR Nidhi Shah Manish Kumawat \*

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

M/s Moil Limited

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



Reporting Date: 07/03/2024

## SAMPLE DETAILS

Lab ID:	Lab/PN/2409C/38A/V4/05
Sample Drawn By:	Laboratory Representative
Sample Type:	Ambient Air
Sample Description:	Near Mine Pit Office
Env. CondSampling:	Ambient Temperature
Env. CondSample Receipt:	Satisfactory

 Sampling Start Date:
 24/02/2024

 Sampling End Date:
 25/02/2024

 Sample Receipt Date:
 27/02/2024

 Analysis start- End Date:
 27/02/2024-06/03/2024

 Total Sampling hours:
 24

 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

11 C - End of Report ---

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# **CERTIFICATE OF ANALYSIS**

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

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



Reporting Date: 07/03/2024

# SAMPLE DETAILS

Sample Drawn By: Sample Type: Sample Description: Env. CondSampling: Env. CondSample Receipt:	Lab ID:
Sample Description: Env. CondSampling:	Sample Drawn By:
Env. CondSampling:	Sample Type:
1 5	Sample Description:
Env. CondSample Receipt:	Env. CondSampling:
	Env. CondSample Receipt:

Lab/PN/2409C/38A/V4/06 Laboratory Representative Ambient Air Near Workshop Ambient Temperature Satisfactory Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:27/02/2024-06/03/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}$ 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

CHAI Analyzed By Authorized Signatory Nidhi Shah AHMEDABAI Manish Kumawat 4 Page No: 1/2

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

M/s Moil Limited

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



Reporting Date: 07/03/2024

# SAMPLE DETAILS

Lab ID:	L
Sample Drawn By:	L
Sample Type:	А
Sample Description:	Ν
Env. CondSampling:	А
Env. CondSample Receipt:	S

Lab/PN/2409C/38A/V4/06 Laboratory Representative Ambient Air Near Workshop Ambient Temperature Satisfactory Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:27/02/2024-06/03/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$ 

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

Analyzed By Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/2409C/38A/V4/07

M/s Moil Limited

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



Reporting Date: 07/03/2024

# SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	24/02/2024
Sample By	Laboratory Representative	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 Harmmer Dril Machine	Day Time	dB(A)Leq	IS 4758	67.4	

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

Analyzed By Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/2410C/38B/V4/01 M/s Moil Limited Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Naqpur



# SAMPLE DETAILS

Sampl Sampl Sampl	e Drawn By: e Type: e Description: e Quantity:	Lab/PN/2410 Laboratory Re Waste Water W.W of ETP of 4.5L Satisfactory	epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 09/03/2024 GGMPL/WI/27A Sealed	
Sr.No	Paramete	rs	Results	Unit	Test Method	Ν	lorm
1	pH at 25 °C		8.26	-	IS 3025- Part 11	5	5.5 to 8.5
2	Total Suspended Solid	s	60.00	mg/L	APHA 23rd Edn 2540 D	1	.00
3	Oil and Grease		BQL (QL=2)	mg/L	IS 3025- Part 39	1	.0
4	Chemical Oxygen Dem	and	40.00	mg/L	APHA 23rd Edn 5220 B	2	50
5	Dissolved Oxygen		6.00	mg/L	IS 3025- Part 38	N	IS
6	BOD at 27 o C for 3 da	ays	12	mg/L	IS 3025- Part 44	3	0
7	Manganese as Mn		BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	N	IS

Norms As Per CCA.

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

Analyzed By Kinjal Damor

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# **CERTIFICATE OF ANALYSIS**

Report Number : GGMPL/PN/2410C/38B/V4/02

M/s Moil Limited

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



Reporting Date: 11/03/2024

## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2410C/38B/V4/02 Laboratory Representative Ambient Air Near Check Post (main gate) Ambient Temperature Satisfactory Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:28/02/2024-09/03/2024Total Sampling hours:24Env. Cond.-Testing:25±5°C

Sr.No	Parameters	Results	Unit	l est 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

Analyzed By Kinjal Damor

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Report Number : GGMPL/PN/2410C/38B/V4/02

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
Sample Drawn By:	Laboratory Representative
Sample Type:	Ambient Air
Sample Description:	Near Check Post (main gate)
Env. CondSampling:	Ambient Temperature
Env. CondSample Receipt:	Satisfactory

Sampling Start Date: Sampling End Date: 25/02/2024 Sample Receipt Date: 27/02/2024 Analysis start- End Date: Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

24/02/2024 28/02/2024-09/03/2024

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

CHAA End of Report

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

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

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



# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2410C/38B/V4/03 Laboratory Representative Ambient Air Gumgaon Village (gram panchayat) Ambient Temperature Satisfactory 
 Sampling Start Date:
 24/02/2024

 Sampling End Date:
 25/02/2024

 Sample Receipt Date:
 27/02/2024

 Analysis start- End Date:
 28/02/2024-09/03/2024

 Total Sampling hours:
 24

 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

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

Analyzed By Kinjal Damor

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# **CERTIFICATE OF ANALYSIS**

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

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



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2410C/38B/V4/03 Laboratory Representative Ambient Air Gumgaon Village (gram panchayat) Ambient Temperature Satisfactory Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:28/02/2024-09/03/2024Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}$ 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

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Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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



# SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	24/02/2024
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2410C/3 8B/V4/04A	Nr. Check Post (Main Yard)	Day Time	dB(A)Leq	IS 4758	63.4	-
2	Lab/PN/2410C/3 8B/V4/04B	Gumgaon Village (Grampanchayat)	Day Time	dB(A)Leq	IS 4758	67.8	

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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



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2

## SAMPLE DETAILS

Chemical Oxygen Demand

BOD at 27 o C for 3 days

**Dissolved** Oxygen

Manganese as Mn

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Lab/PN/2411 Laboratory Re Waste Water WW of mine 4.5L Satisfactory	epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 07/03/2024 GGMPL/WI/27A Sealed
Sr.No Parame	ters	Results	Unit	Test Method	Norm
1 pH at 25 °C		7.46	-	IS 3025- Part 11	5.5 to 9.0
2 Total Suspended Sol	ids	22.00	mg/L	APHA 23rd Edn 2540 D	100
3 Oil and Grease		BQL (QL=2)	mg/L	IS 3025- Part 39	10

mg/L

mg/L

mg/L

mg/L

APHA 23rd Edn 5220 B

APHA 23rd Edn 3120 B

IS 3025- Part 38

IS 3025- Part 44

Norms As Per CCA.

4

5

6

7

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

90.00

5.00

BQL (QL=0.1)

18

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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



# SAMPLE DETAILS

Sample Sample Sample	e Drawn By: e Type: e Description: e Quantity: e Condition:				Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 07/03/2024 GGMPL/WI/27 Sealed	'A
Sr.No	Paramet	ers	Results	Unit	Test Method		Norm
1	pH at 25 °C		7.55	-	IS 3025- Part 11		5.5 to 9.0
2	Total Suspended Solid	ds	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 Der	mand	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 o C for 3 d	lays	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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Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/2411C/38C/V4/03 M/s Moil Limited Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur

TC-7073

Reporting Date : 08/03/2024

## SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Lab/PN/2411 Laboratory R Water G.W of Khapa 4.8L Satisfactory		ıp	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 07/03/2024 GGMPL/WI/27 Sealed		pecification:
Sr.N	o Paramet	ers	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 Ca	03	162.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Solid	s (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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# **CERTIFICATE OF ANALYSIS**

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

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



45

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## SAMPLE DETAILS

Lab ID:Lab/PN/2411C/38C/V4/03Sample Drawn By:Laboratory RepresentativeSample Type:WaterSample Description:G.W of Khapa village Hand PumpSample Quantity:4.8LSample Condition:Satisfactory			Sampling Date:	24/02/2024	24/02/2024			
		пр	Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	27/02/2024 27/02/2024 07/03/2024 GGMPL/WI/27A Sealed				
					i dening.	Scaled		Specification:
Sr.No	Paramet	ers	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	ma/l	APHA 23rd Edn 4500 NO	R	45	No

mg/L

AL & PL as per IS 10500.

Nitrate

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

2.68

Analyzed By Jadav Vishal

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date : 08/03/2024

# SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Laboratory R Water	C/38C/V4/03 epresentative a village Hand Pum	ηp	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 27/02/2024 07/03/2024 GGMPL/WI/27 Sealed		Specification:
Sr.No	Paramete	ers*	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/2411C/38C/V4/04

M/s Moil Limited

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



Reporting Date: 08/03/2024

## SAMPLE DETAILS

Sample Drawn By:

Sample Description:

Env. Cond.-Sampling:

Sample Type:

Lab ID:

Lab/PN/2411C/38C/V4/04 Laboratory Representative Ambient Air Near Grampanchayat Tigai Village Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 24/02/2024 Sampling End Date: 25/02/2024 Sample Receipt Date: 27/02/2024 Analysis start- End Date: 27/02/2024-07/03/2024 Total Sampling hours: 24 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

C.HA Analyzed By Authorized Signatory Jadav Vishal 1EDAR Manish Kumawat Page No : 1/2

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# **CERTIFICATE OF ANALYSIS**

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

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/V4/04
Sample Drawn By:	Laboratory Representative
Sample Type:	Ambient Air
Sample Description:	Near Grampanchayat Tigai Village
Env. CondSampling:	Ambient Temperature
Env. CondSample Receipt:	Satisfactory

Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:27/02/2024-07/03/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \ ^{\circ}C$ 

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 I	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

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No : 2/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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



Reporting Date: 08/03/2024

## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2411C/38C/V4/05 Laboratory Representative Ambient Air Near Bus Stand Khapa Village Ambient Temperature Satisfactory Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:27/02/2024-07/03/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \ ^{\circ}C$ 

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.08	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

Analyzed By Authorized Signatory Jadav Vishal Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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
Sample Drawn By:	Laboratory Representative
Sample Type:	Ambient Air
Sample Description:	Near Bus Stand Khapa Village
Env. CondSampling:	Ambient Temperature
Env. CondSample Receipt:	Satisfactory

Sampling Start Date: 24/02/2024 Sampling End Date: 25/02/2024 Sample Receipt Date: 27/02/2024 Analysis start- End Date: 27/02/2024-07/03/2024 Total Sampling hours: 24 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

Analyzed By Jadav Vishal

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number : GGMPL/PN/2411C/38C/V4/06

M/s Moil Limited

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



Reporting Date: 08/03/2024

## SAMPLE DETAILS

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

Lab/PN/2411C/38C/V4/06 Laboratory Representative Ambient Air Near High Speed Vertical Shaft Ambient Temperature Satisfactory Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:27/02/2024-07/03/2024Total Sampling hours:24Env. Cond.-Testing: $25 \pm 5 \ ^{\circ}C$ 

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

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

M/s Moil Limited

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



Reporting Date: 08/03/2024

## SAMPLE DETAILS

Lab ID:	Lab/PN/2411C/38C/
Sample Drawn By:	Laboratory Represen
Sample Type:	Ambient Air
Sample Description:	Near High Speed Ver
Env. CondSampling:	Ambient Temperatur
Env. CondSample Receipt:	Satisfactory

/V4/06 ntative ertical Shaft Ire

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

24/02/2024 27/02/2024 27/02/2024-07/03/2024

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

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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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



Reporting Date: 08/03/2024

# SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	24/02/2024
Sample By	Laboratory Representative	Sample Description:	Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2411C/3 8C/V4/07A	Village	Day Time	dB(A)Leq	IS 4758	60.4	-
2	Lab/PN/2411C/3 8C/V4/07B	Near High speed vertical shaft	Day Time	dB(A)Leq	IS 4758	63.8	
3	Lab/PN/2411C/3 8C/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 M/s Moil Limited Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur



## SAMPLE DETAILS

Samp Samp Samp	D: le Drawn By: le Type: le Description: le Quantity: le Condition:	Water	8C/43/V4/01 Representative Borewell (GW)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27 Sealed		pecification:
Sr.No	p Paramet	ers	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 CaCO3		200.00	mg/L	APHA 23rd Edn 2320 B		200	600
3	Calcium as Ca		39.27	mg/L	APHA 23rd Edn 3500 Ca E		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 E	3	30	100
8	Odour		Agreeable	-	IS 3025 Part-5		Agreeable	Agreeable
9	Sulphate		20.49	mg/L	APHA 23rd Edn 4500 SO4	E	200	400
10	Total Dissolved Solids		300.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	CO3	152.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Solic	ds (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D		NS	NS

### AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

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Authorized Signatory 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



## SAMPLE DETAILS

Sampl Sampl Sampl	Lab ID:Lab/PN/2408C/43/V4/01Sample Drawn By:Laboratory RepresentativeSample Type:WaterSample Description:Rest House Borewell (GW)Sample Quantity:4.8LSample Condition:Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27A Sealed	
						Specification:
Sr.No	Param	eters Results	Unit	Test Method	AL	PL
13	Turbidity	2.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.0	05) mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.0	05) mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.79	mg/L	APHA 23rd Edn 4500 NO3	3 B 45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

LU LU AHMEDABAD 9 \* --- End of Report ---

Authorized Signatory Manish Kumawat

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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

Sampl Sampl Sampl	ab ID:Lab/PN/2408C/43/V4/01ample Drawn By:Laboratory Representativeample Type:Waterample Description:Rest House Borewell (GW)ample Quantity:4.8Lample Condition:Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27A Sealed		Charification	
								Specification:
Sr.No	Paramete	ers*	Results	Unit	Test Method	1	AL.	PL
1	Total Coliform (MPN/	100ml)	Absent	MPN/100ml	IS 1622	ŀ	Absent	Absent
2	E.Coli (MPN/100ml)		Absent	MPN/100ml	IS 1622	F	bsent	Absent



### AL & PL As Per IS 10500

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HAN Analyzed By Authorized Signatory Priyanka Shrimali Manish Kumawat nd of Report

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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



# SAMPLE DETAILS

Samp Samp Samp	D: ole Drawn By: ole Type: le Description: le Quantity: le Condition:	Water	C/43/V4/02 epresentative jna River (SW)		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27 Sealed		pecification:
Sr.N	o Paramet	ers	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 CaCO3		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 SO4	E	200	400
10	Total Dissolved Solids		380.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Hardness as Ca	203	165.00	mg/L	APHA 23rd Edn 2340 C		200	600
12	Total Suspended Solic	ls (TSS)	13.00	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/V4/02

M/s Moil Limited

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



# SAMPLE DETAILS

Lab ID:	Lab/PN/2408	C/43/V4/02		Sampling Date:	24/02/2024		
Sample Drawn By:	Laboratory R	epresentative		Sample Receipt Date:	27/02/2024		
Sample Type:	Water			Analysis Start Date:	28/02/2024		
Sample Description:	Upstream Ra	jna River (SW)		Analysis End Date:	07/03/2024		
Sample Quantity:	4.8L			Sampling Method:	GGMPL/WI/27	Ά	
Sample Condition:	Satisfactory			Packing:	Sealed		
							Specification:
Sr.No P	arameters	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	s 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	В	45	No Relaxation

AL & PL As Per IS 10500

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Reporting Date : 08/03/2024

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

# SAMPLE DETAILS

Sample Sample Sample	: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/24080 Laboratory Re Water Upstream Raj 4.8L Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27 Sealed		Specification:
Sr.No	Paramete	rs*	Results	Unit	Test Method		AL	PL
1	Total Coliform (MPN/:	LOOml)	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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Analyzed By Priyanka Shrimali

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# **CERTIFICATE OF ANALYSIS**

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

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



# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition:	Lab/PN/2408C/43/ Laboratory Represe Water Down Stream Rajna 4.8L Satisfactory	entative	Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27A Sealed	Specification:
Sr.No Para	meters Resu	ults Unit	Test Method	A	L PL
1 pH at 25 °C	7.52	-	IS 3025-Part 11	6	.5 to 8.5 No Relaxation

						Relaxation
2	Alkalinity as CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	180.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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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Analyzed By Priyanka Shrimali

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Authorized Signatory Manish Kumawat

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# SAMPLE DETAILS

Sample Sample Sample	: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/2408 Laboratory Re Water Down Stream 4.8L Satisfactory			Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27A Sealed		
							S	pecification:
Sr.No	Parame	eters	Results	Unit	Test Method	A	L	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 4	5	No Relaxation

### AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

AHMEDABAD 1 \*

--- End of Report ---

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Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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/24080	C/43/V4/03		Sampling Date:	24/02/2024		
Sampl Sampl Sampl	e Drawn By: e Type: e Description: e Quantity: e Condition:	Laboratory Re Water Down Stream 4.8L Satisfactory	epresentative Rajna River (SW)		Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27A Sealed		
Campi		Subsuctory			racking.	Sealed	5	Specification:
Sr.No	Paramet	ers*	Results	Unit	Test Method	1	AL	PL
1	Total Coliform (MPN,	/100ml)	Absent	MPN/100ml	IS 1622	ŀ	Absent	Absent
2	E.Coli (MPN/100ml)		Absent	MPN/100ml	IS 1622	ŀ	Absent	Absent



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



2

# SAMPLE DETAILS

Si Si Si	ampl ampl ampl	o: e Drawn By: e Type: e Description: e Quantity: e Condition:	Lab/PN/2408 Laboratory Re Water WTP Outlet V 4.8L Satisfactory	epresentative		Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing:	24/02/2024 27/02/2024 28/02/2024 07/03/2024 GGMPL/WI/27 Sealed	A
5	Sr.No	Paramet	ers	Results	Unit	Test Method		Norm
	1	pH at 25 °C		7.25	-	IS 3025- Part 11		5.5 to 9.0
	2	Total Suspended Soli	ds	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 Der	mand	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 o C for 3 c	lays	21	mg/L	IS 3025- Part 44		30

mg/L

APHA 23rd Edn 3120 B

### Norms As Per CTO

Manganese as Mn

7

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

BQL (QL=0.1)

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number : GGMPL/PN/2408C/43/V4/05 M/s Moil Limited

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



# SAMPLE DETAILS

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

Lab/PN/2408C/43/V4/05 Laboratory Representative Ambient Air Near Rest House Ambient Temperature Satisfactory

 Sampling Start Date:
 24/02/2024

 Sampling End Date:
 25/02/2024

 Sample Receipt Date:
 27/02/2024

 Analysis start- End Date:
 28/02/2024-07/03/2024

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

Sr.No	p 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

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# **CERTIFICATE OF ANALYSIS**

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

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



# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2408C/43/V4/05 Laboratory Representative Ambient Air Near Rest House Ambient Temperature Satisfactory 
 Sampling Start Date:
 24/02/2024

 Sampling End Date:
 25/02/2024

 Sample Receipt Date:
 27/02/2024

 Analysis start- End Date:
 28/02/2024-07/03/2024

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temp	erature	31	°C	GGMPL/SOP/MP/01	NS
13 Relativ	ve Humidity	40	%	GGMPL/SOP/MP/01	NS
14 Rainfa	II	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/V4/06

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



# SAMPLE DETAILS

Lab ID:	Lab/F
Sample Drawn By:	Labor
Sample Type:	Ambi
Sample Description:	Near
Env. CondSampling:	Ambi
Env. CondSample Receipt:	Satisf

ab/PN/2408C/43/V4/06 aboratory Representative ambient Air lear Sand Leases Area ambient Temperature fatisfactory 
 Sampling Start Date:
 24/02/2024

 Sampling End Date:
 25/02/2024

 Sample Receipt Date:
 27/02/2024

 Analysis start- End Date:
 28/02/2024-07/03/2024

 Total Sampling hours:
 24

 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

M/s Moil Limited Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur TC-7073

Reporting Date: 08/03/2024

# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2408C/43/V4/06 Laboratory Representative Ambient Air Near Sand Leases Area Ambient Temperature Satisfactory

Sampling Start Date: 24/02/2024 Sampling End Date: 25/02/2024 Sample Receipt Date: 27/02/2024 Analysis start- End Date: 28/02/2024-07/03/2024 Total Sampling hours: 24 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 AHMEDABAD 4 Analyzed By Authorized Signatory Priyanka Shrimali 9 \*

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur тс-7073

Reporting Date: 08/03/2024

# SAMPLE DETAILS

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

Lab/PN/2408C/43/V4/07 Laboratory Representative Ambient Air Near Haul Road Ambient Temperature Satisfactory Sampling Start Date:24/02/2024Sampling End Date:25/02/2024Sample Receipt Date:27/02/2024Analysis start- End Date:28/02/2024-07/03/2024Total Sampling hours:24Env. 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	GGMPL/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	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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# **CERTIFICATE OF ANALYSIS**

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

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



## SAMPLE DETAILS

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

Lab/PN/2408C/43/V4/07 Laboratory Representative Ambient Air Near Haul Road Ambient Temperature Satisfactory 
 Sampling Start Date:
 24/02/2024

 Sampling End Date:
 25/02/2024

 Sample Receipt Date:
 27/02/2024

 Analysis start- End Date:
 28/02/2024-07/03/2024

 Total Sampling hours:
 24

 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/V4/08

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

TC-7073

# SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43
Sample Drawn By:	Laboratory Repres
Sample Type:	Ambient Air
Sample Description:	Near Filtration Pla
Env. CondSampling:	Ambient Tempera
Env. CondSample Receipt:	Satisfactory

3/V4/08 esentative ant (WTP) ature

Sampling Start Date: 24/02/2024 Sampling End Date: 25/02/2024 Sample Receipt Date: 27/02/2024 Analysis start- End Date: 28/02/2024-07/03/2024 Total Sampling hours: 24 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

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# **CERTIFICATE OF ANALYSIS**

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

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



# SAMPLE DETAILS

Lab ID:	Lab/PN/2408C/43/V4/	
Sample Drawn By:	Laboratory Representa	
Sample Type:	Ambient Air	
Sample Description:	Near Filtration Plant (	
Env. CondSampling:	Ambient Temperature	
Env. CondSample Receipt:	Satisfactory	
Env. CondSampling:	Ambient Temperature	

/08 ative WTP) Sampling Start Date: 24/02/2024 Sampling End Date: 25/02/2024 Sample Receipt Date: 27/02/2024 Analysis start- End Date: 28/02/2024-07/03/2024 Total Sampling hours: 24 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

HAN AHMEDABAD End of Report ×

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/2408C/43/V4/09

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



TC-7073

# SAMPLE DETAILS

Sampling Instrument :	Sound Level Meter	Sampling Date:	24/02/2024
Sample By	Laboratory Representative	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 Houl Road	Day Time	dB(A)Leq	IS 4758	57.1	-
4	Lab/PN/2408C/4 3/V4/09D	Near Filtaration Plabt	Day Time	dB(A)Leq	IS 4758	60.3	

NS=Not Specified, BQL=Below Quantification Limit,QL	= Quantification Limit	N
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Analyzed By Priyanka Shrimali	- Eind of Report	Authorized Signatory Manish Kumawat

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