

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2177D/38A/01

Reporting Date: 11/10/2024

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/2177D/38A/01	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	04/10/2024-10/10/2024
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)	65.27	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.27	µg/m3	IS 5182-Part L 2	80
4	Nitrogen Dioxide (NO2)	17.04	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	µg/m3	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
Sachi Patel




Authorized Signatory
Payal Patel

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	04/10/2024-10/10/2024
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	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	11.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

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--- End of Report ---

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SAMPLE DETAILS

Lab ID:	Lab/PN/2177D/38A/02	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Workshop	Analysis start- End Date:	03/10/2024-10/10/2024
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	MMQ Standards
1	Particulate Matter (PM10)	63.62	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m ³	GGMPL/SOP/M/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	11.66	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	17.24	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	15.54	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	9.97	µg/m ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Workshop	Analysis start- End Date:	03/10/2024-10/10/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	11.6	m/s	GGMPL/SOP/MP/01:2020	NS

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SAMPLE DETAILS

Lab ID:	Lab/PN/2177D/38A/03	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Crushing Plant	Analysis start- End Date:	03/10/2024-10/10/2024
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)	69.03	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.30	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.19	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	µg/m3	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

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Crushing Plant	Analysis start- End Date:	03/10/2024-10/10/2024
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	47	%	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	11.6	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177D/38A/04

Reporting Date: 11/10/2024

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: 01/10/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2177D/38A/04A	Nr Cable Bolting Operation	Day Time	dB(A)Leq	IS 4758	67.9	-
2	Lab/PN/2177D/38A/04B	Nr Jack Hammer Drill Machine	Day Time	dB(A)Leq	IS 4758	69.3	-
3	Lab/PN/2177D/38A/04C	Nr Vertical Fan	Day Time	dB(A)Leq	IS 4758	64.8	-

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SAMPLE DETAILS

Lab ID:	Lab/PN/2177D/38A/05	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Water	Analysis Start Date:	03/10/2024
Sample Description:	Nr. Officer colony Borewell Water	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	147.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	35.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	35.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.84	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	12.26	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	253.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	182.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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SAMPLE DETAILS

Lab ID:	Lab/PN/2177D/38A/05	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Water	Analysis Start Date:	03/10/2024
Sample Description:	Nr. Officer colony Borewell Water	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	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	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.26	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177D/38A/06

M/s Moil Limited

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

Reporting Date : 11/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2177D/38A/06	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Waste Water	Analysis Start Date:	03/10/2024
Sample Description:	Near Pit Water (WW)	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.73	-	IS 3025- Part 11	-
2	Total Suspended Solids	26.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	88.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	25	mg/L	IS 3025- Part 44	-
7	Manganese	5.12	mg/L	GGMPL/SOP/W & WW/46	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177D/38A/07

M/s Moil Limited

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

Reporting Date : 11/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2177D/38A/07	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Waste Water	Analysis Start Date:	03/10/2024
Sample Description:	ETP Outlet	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.62	-	IS 3025- Part 11	-
2	Total Suspended Solids	48.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	44.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	12	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2178D/38B/01

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178D/38B/01	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Check Post(Main Gate)	Analysis start- End Date:	03/10/2024-10/10/2024
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)	62.43	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)	11.04	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.89	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	µg/m3	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/2178D/38B/01

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178D/38B/01	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Check Post(Main Gate)	Analysis start- End Date:	03/10/2024-10/10/2024
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	45	%	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	11.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Report Number : GGMPL/PN/2178D/38B/02

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178D/38B/02	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Gumgaon Village Grampanchayat	Analysis start- End Date:	03/10/2024-10/10/2024
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)	56.77	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.99	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.23	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.63	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.55	µg/m3	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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Report Number : GGMPL/PN/2178D/38B/02

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178D/38B/02	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Gumgaon Village Grampanchayat	Analysis start- End Date:	03/10/2024-10/10/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	11.5	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/2178D/38B/03

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 01/10/2024

Sample By Laboratory Representative

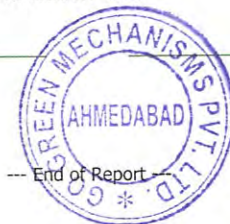
Sample Description:

Source Noise

Sr.NO	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2178D/38B/03A	Near Check-Post (Main Gate)	Day Time	dB(A)Leq	IS 4758	59.6	
2	Lab/PN/2178D/38B/03B	Gumgaon Village Grampanchayat	Day Time	dB(A)Leq	IS 4758	54.9	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2178D/38B/04

Reporting Date : 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178D/38B/04	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Ground Water	Analysis Start Date:	03/10/2024
Sample Description:	G.W. Near old office Borewell water	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	123.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	32.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.21	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.25	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.62	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.60	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	234.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2178D/38B/04

Reporting Date : 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178D/38B/04	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Ground Water	Analysis Start Date:	03/10/2024
Sample Description:	G.W. Near old office Borewell water	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	163.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.87	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500

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

Sachi

Analyzed By
Sachi Patel



--- End of Report ---

P.B.P.

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2179D/38C/01

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/01	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Grampanchayat Tigai Village	Analysis start- End Date:	03/10/2024-10/10/2024
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)	61.90	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)	12.08	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.04	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.54	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=7.5)	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)	1.13415	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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Analyzed By
Sachi Patel



P. B. Patel
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Payal Patel

Page No : 1/2

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Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/01	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Grampanchayat Tigai Village	Analysis start- End Date:	03/10/2024-10/10/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	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	12.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Sachi Patel



P. Patel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2179D/38C/02

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/02	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near High speeded Vertical Shaft	Analysis start- End Date:	03/10/2024-10/10/2024
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)	64.25	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.63	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.83	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	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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Analyzed By
Sachi Patel



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M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/02	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near High speed Vertical Shaft	Analysis start- End Date:	03/10/2024-10/10/2024
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	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	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	12.2	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 11/10/2024

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



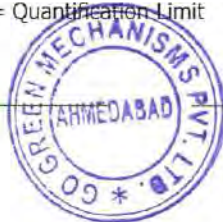
SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/03	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Bus Stand Khapa Village	Analysis start- End Date:	03/10/2024-10/10/2024
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)	58.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.89	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.55	µg/m3	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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Report Number : GGMPL/PN/2179D/38C/03

Reporting Date: 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/03	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/10/2024
Sample Description:	Near Bus Stand Khapa Village	Analysis start- End Date:	03/10/2024-10/10/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	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	12.2	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2179D/38C/04

Reporting Date: 11/10/2024

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: 01/10/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2179D/38C/04A	Near Grampanchayat Tigai Village	Day Time	dB(A)Leq	IS 4758	54.1	-
2	Lab/PN/2179D/38C/04B	Nr High Speed Vertical Shaft	Day Time	dB(A)Leq	IS 4758	68.6	-
3	Lab/PN/2179D/38C/04C	Nr Bus Stand Khapa Village	Day Time	dB(A)Leq	IS 4758	65.5	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2179D/38C/05

Reporting Date : 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/05	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Water	Analysis Start Date:	03/10/2024
Sample Description:	Khapa Village Hand Pump	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	35.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.28	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.23	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	258.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Sachi

Analyzed By
Sachi Patel



P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2179D/38C/05

Reporting Date : 11/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/05	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Water	Analysis Start Date:	03/10/2024
Sample Description:	Khapa Village Hand Pump	Analysis End Date:	10/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	172.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.83	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500

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

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Analyzed By
Sachi Patel



P. Patel
Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2179D/38C/06

M/s Moil Limited

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

Reporting Date : 11/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/06	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Waste Water	Analysis Start Date:	03/10/2024
Sample Description:	W.W STP Outlet	Analysis End Date:	10/10/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.56	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	17.00	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	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	10.9	mg/L	IS 3025- Part 44	30
7	Manganese	0.37	mg/L	GGMPL/SOP/W & WW/46	2

Norms as per CTO

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

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Sachi Patel



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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2179D/38C/07

M/s Moil Limited

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

Reporting Date : 11/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2179D/38C/07	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/10/2024
Sample Type:	Waste Water	Analysis Start Date:	03/10/2024
Sample Description:	Mine Discharge Water	Analysis End Date:	10/10/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	24.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	84.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	22	mg/L	IS 3025- Part 44	30
7	Manganese	1.32	mg/L	GGMPL/SOP/W & WW/46	-

Norms as per CTO

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

Sachi
Analyzed By
Sachi Patel



--- End of Report ---

PBD
Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2180D/38C/01

Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/01	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Rest House	Analysis start- End Date:	04/10/2024-09/10/2024
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)	66.93	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.06	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.66	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Kinjal Damor



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2180D/38C/01

Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/01	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Rest House	Analysis start- End Date:	04/10/2024-09/10/2024
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	45	%	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	11.1	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2180D/38C/02

Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/02	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Sand Leases Area	Analysis start- End Date:	04/10/2024-09/10/2024
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)	69.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.45	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.63	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.20	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.25	µg/m3	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
Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2180D/38C/02

Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/02	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Sand Leases Area	Analysis start- End Date:	04/10/2024-09/10/2024
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	45	%	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	11.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Report Number : GGMPL/PN/2180D/38C/03

Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/03	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	04/10/2024-09/10/2024
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)	67.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.35	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.07	µg/m3	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/2180D/38C/03

Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/03	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	04/10/2024-09/10/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	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	11.1	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/2180D/38C/04

Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/04	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	04/10/2024-09/10/2024
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)	70.69	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)	16.59	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.94	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.69	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Reporting Date: 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/04	Sampling Start Date:	01/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	02/10/2024
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	04/10/2024-09/10/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	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	11.1	m/s	GGMPL/SOP/MP/01:2020	NS

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Report Number: GGMPL/PN/2180D/38C/05

Reporting Date: 10/10/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 01/10/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2180D/38C/05A	Near Rest Room	Day Time	dB(A)Leq	IS 4758	53.2	-
2	Lab/PN/2180D/38C/05B	Near Sand Lease Area	Day Time	dB(A)Leq	IS 4758	56.2	-
3	Lab/PN/2180D/38C/05C	Near Houli Road	Day Time	db(A)Leq	IS 4758	60.1	-
4	Lab/PN/2180D/38C/05D	Near Filtration Plant (WTP)	Day Time	dB(A)Leq	IS 4758	62.8	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2180D/38C/06

M/s Moil Limited

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

Reporting Date : 10/10/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2180D/38C/06
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House Borewell (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 02/10/2024
Sample Receipt Date: 02/10/2024
Analysis Start Date: 04/10/2024
Analysis End Date: 09/10/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.15	-	IS 3025-Part 11	6.5 -8.5	No relaxation
2	Alkalinity as CaCO ₃	121.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	64.92	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	65.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.52	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	30.95	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	355.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	212.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AI & PI as per IS 10500

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

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Report Number: GGMPL/PN/2180D/38C/06

Reporting Date : 10/10/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2180D/38C/06
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House Borewell (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 02/10/2024
Sample Receipt Date: 02/10/2024
Analysis Start Date: 04/10/2024
Analysis End Date: 09/10/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.69	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	2.93	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/2180D/38C/07

M/s Moil Limited

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

Reporting Date : 10/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/07	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/10/2024
Sample Type:	Water	Analysis Start Date:	04/10/2024
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	09/10/2024
Sample Quantity:	3 L	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	7.15	-	IS 3025-Part 11	6.5 -8.5	No relaxation
2	Alkalinity as CaCO ₃	180.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	19.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.50	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	23.81	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	31.74	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	346.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	190.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AI & PL as Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2180D/38C/07

M/s Moil Limited

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

Reporting Date : 10/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/07	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/10/2024
Sample Type:	Water	Analysis Start Date:	04/10/2024
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	09/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.58	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	2.46	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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End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2180D/38C/08

Reporting Date : 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/08	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/10/2024
Sample Type:	Water	Analysis Start Date:	04/10/2024
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	09/10/2024
Sample Quantity:	3 L	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	7.83	-	IS 3025-Part 11	6.5 -8.5	No relaxation
2	Alkalinity as CaCO ₃	182.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	45.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	16.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.35	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	298.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	204.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL AS Per IS 10500

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2180D/38C/08

M/s Moil Limited

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

Reporting Date : 10/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/08	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/10/2024
Sample Type:	Water	Analysis Start Date:	04/10/2024
Sample Description:	Down Stream Rajna River (SW)	Analysis End Date:	09/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.43	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	1.66	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: GGMP/L/PN/2180D/38C/09

Reporting Date : 10/10/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/09	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/10/2024
Sample Type:	Water	Analysis Start Date:	04/10/2024
Sample Description:	WTP Outlet Water	Analysis End Date:	09/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	166.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	33.66	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	19.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	25.27	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.65	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	12.49	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	309.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	188.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5

AL PL as per IS 10500.

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

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Report Number: GGMPL/PN/2180D/38C/09

M/s Moil Limited

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

Reporting Date : 10/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2180D/38C/09	Sampling Date:	02/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/10/2024
Sample Type:	Water	Analysis Start Date:	04/10/2024
Sample Description:	WTP Outlet Water	Analysis End Date:	09/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.23	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	3.57	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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