

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/01

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3545D/79G/01

Maulik Prajapati Ambient Air Near Mine Office

Tem-23°C/ Humidity-54%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

16/01/2024 17/01/2024 19/01/2025

20/01/2025-27/01/2025

24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.43	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.34	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18,65	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	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)	0.95	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
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms As Per NAAQ Standards.

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

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Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/02

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Sample Type:

Sample Drawn By:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3545D/79G/02

Maulik Prajapati Ambient Air

Near Sita Sawangi Village Tem-23°C/ Humidity-54%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 16/01/2024

17/01/2024 19/01/2025

20/01/2025-27/01/2025

24 25±5°C

ir.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	65.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.82	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.06	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	µg/m3	GGMPL/SOP/AA/62	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
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms As Per NAAQ Standards.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/03

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3545D/79G/03

Maulik Prajapati Ambient Air Near Durg Chowk

Tem-23°C/ Humidity-54%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 16/01/2024 17/01/2024

19/01/2025

20/01/2025-27/01/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	75.45	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.31	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	30.20	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.48	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.53	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms As Per NAAQ Standards.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/04

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3545D/79G/04

Maulik Prajapati

Ambient Air

Near Mine Vertical Shaft Tem-24°C/ Humidity-56%

Satisfactory

Sampling Start Date

Sampling End Date:

Sample Receipt Date Analysis start- End [

Total Sampling hours:

24 Env. Cond.-Testing:

25±5°C

e:	16/01/2024
:	17/01/2024
te:	19/01/2025
Date:	20/01/2025-27/01/2025

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.25	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	11.68	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.59	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.51	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.15	µg/m3	GGMPL/SOP/AA/62	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)	0.95085	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
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms As Per NAAQ Standards.

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Report Number: GGMPL/PN/3545D/79G/05

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

Reporting Date: 28/01/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

16/01/2025

SOURCE NOISE

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3545D/7 9G/05A	Near workshop	Day Time	dB(A)Leq	IS 4758	68.9	-
2	Lab/PN/3545D/7 9G/05B	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	67.6	-
3	Lab/PN/3545D/7 9G/05C	Near Cruising Plant	Day Time	dB(A)Leq	IS 4758	70.2	-
4	Lab/PN/3545D/7 9G/05D	Near DG Set	Day Time	dB(A)Leq	IS 4758	64.1	

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

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End of Report

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/06

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3545D/79G/06

Sample Drawn By:

Maulik Prajapati

Sample Type:

Drinking Water

Sample Description:

Officer Colony Water Supply

Sample Quantity:

4 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Pac

17/01/2025

19/01/2025 20/01/2025

27/01/2025 GGMPL/WI/27A

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ciking.	Seale

Sr.No	Parameters	DIt				
51.140	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	128.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	48.90	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	65.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.58	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.00	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	*	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53	-	IS 3025- Part 11	1 5-X 5	No relaxation
9	Sulphate	32.54	mg/L	APHA 24th Edn 4500 SO4 E		400
10	Total Dissolved Solids (TDS)	322.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	229.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

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Report Number: GGMPL/PN/3545D/79G/06

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)

Reporting Date : 28/01/2025

TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3545D/79G/06

Maulik Prajapati

Sample Type:

Drinking Water

Sample Description:

Sample Drawn By:

Officer Colony Water Supply

Sample Quantity:

4 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

27/01/2025 GGMPL/WI/27A

Packing:

Sealed

17/01/2025

19/01/2025

20/01/2025

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1-	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.52	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

10 1-18

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan Reviewed & Authorized by Payal Patel

--- End of Report ---

Page No: 2/2

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Report Number: GGMPL/PN/3545D/79G/07

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/3545D/79G/07

Sample Drawn By:

Maulik Prajapati

Sample Type:

Waste Water

Sample Description: Sample Quantity: STP Outlet

4 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Analysis End Date: Sampling Method:

Packing:

17/01/2025 19/01/2025

19/01/2025 20/01/2025 27/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

ir.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	_	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	42.00	mg/L	APHA 24th Edn 2540 D	50
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	36.00	mg/L	APHA 24th Edn 5220 B	100
5	Dissolved Oxygen	4.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	7.0	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	0=

Norms As Per CTO

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

Reviewed & Authorized by Tantan Kumar



Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/08

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/3545D/79G/08

Sample Drawn By:

Maulik Prajapati Waste Water

Sample Type: Sample Description: Sample Quantity:

ETP Outlet

Sample Condition:

4 L Satisfactory Sampling Date:

17/01/2025

Sample Receipt Date: Analysis Start Date: 19/01/2025 20/01/2025

Analysis End Date: Sampling Method: 27/01/2025 GGMPL/WI/27A

Packing:

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.61	2	IS 3025- Part 11	5.5 to 8.5
2	Total Suspended Solids (TSS)	33.00	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand (COD)	68.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	5.20	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	16.7	mg/L	IS 3025- Part 44	30
7	Manganese	0.15	mg/L	GGMPL/SOP/W & WW/46	NS

Norms as Per CTO

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

10

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Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/09

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/3545D/79G/09

Sample Drawn By: Sample Type: Maulik Prajapati Waste Water

Sample Description:

Mine Discharge Water

Sample Quantity:

4 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

17/01/2025

19/01/2025 20/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

Nn	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.26	2	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	32.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	3 0
4	Chemical Oxygen Demand (COD)	56.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	5.80	mg/L	IS 3025- Part 38	•
6	BOD at 27 o C for 3 days	11.50	mg/L	IS 3025- Part 44	
7	Manganese	0.18	mg/L	GGMPL/SOP/W & WW/46	

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

0

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Reviewed & Authorized by Manish Kumawat

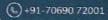
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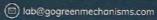
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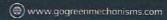
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/10

Reporting Date: 28.01.2025

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3545D/79G/10

: Weather Monitoring Station

: Meteorological Parameter

: Near Mine Office

Sampling Start Date

Sampling End Date

: 17-01-2025

Sample Receipt Date

: 19-01-2025

: 16-01-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	23.0	°C	GGMPL/SOP/MP/01	

Wind Direction= NE

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/11

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28.01.2025



SAMPLE DETAILS

Sampling Instrument

Sample Type Sample Location : Lab/PN/3545D/79G/11

: Weather Monitoring Station

: Meteorological Parameter

: Near Sita Sawangi Village

Sampling Start Date

Sampling End Date

: 16-01-2025 : 17-01-2025

Sample Receipt Date

: 19-01-2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	23.0	°C	GGMPL/SOP/MP/01

Wind Direction= NE

Tantan Kumar

Reviewed & Authorized by

Manish Kumawat

----End of Report----

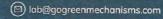
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/12

Reporting Date: 28.01.2025

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID

: Lab/PN/3545D/79G/12

Sampling Start Date

: 16-01-2025

Sampling Instrument

: Weather Monitoring Station : Meteorological Parameter

Sampling End Date

: 17-01-2025

Sample Type Sample Location

: Near Durg Chowk

Sample Receipt Date

: 19-01-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	23.0	°C	GGMPL/SOP/MP/01	

Wind Direction= NE

Reviewed & Authorized by

Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3545D/79G/13

Reporting Date: 28.01.2025

M/s Moil Limited

Chikla Manganese Mines L1=150.650 Ha Site Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3545D/79G/13

: Weather Monitoring Station

: Meteorological Parameter

: Near Mine Vertical Shaft

Sampling Start Date

: 16-01-2025 : 17-01-2025

Sampling End Date Sample Receipt Date

: 19-01-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	23.0	°C	GGMPL/SOP/MP/01	

Wind Direction= NE

Reviewed & Authorized by

Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3561D/79F/01

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District: - Bhandara (M.S)

Reporting Date: 27/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3561D/79F/01

Maulik Prajapati Ambient Air

Near Weight Briedge Temp -26°C & Humidity-56%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 16/01/2025

17/01/2025 20/01/2025

20/01/2025-25/01/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.82	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.29	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μ g /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)	1.06	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
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards. -

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3561D/79F/02

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District: Bhandara (M.S)

Reporting Date: 27/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3561D/79F/02

Maulik Prajapati Ambient Air

Near Railway Siding Temp -26°C & Humidity-56%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

20/01/2025-25/01/2025 Env. Cond.-Testing:

24

25±5°C

16/01/2025 17/01/2025

20/01/2025

r.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.81	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	12.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.15	µg/m3	GGMPL/SOP/AA/62	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
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3561D/79F/03

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District: - Bhandara (M.S)

Reporting Date: 27/01/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

16/01/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3561D/7 9F/03A	Weigh Bridge	Day Time	dB(A)Leq	IS 4758	66.9	5
2	Lab/PN/3561D/7 9F/03B	Loading And Unloading	Day Time	dB(A)Leq	IS 4758	68.2	

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

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Reviewed & Authorized by Manish Kumawat

Page No: 1/1

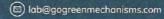
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3561D/79F/04

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 27.01.2025



SAMPLE DETAILS

M/s Moil Limited

Lab ID Sampling Instrument : Lab/PN/3561D/79F/04

Sampling Start Date

: 16-01-2025 : 17-01-2025

Sample Type

: Weather Monitoring Station : Meteorological Parameter

Sampling End Date Sample Receipt Date

: 20.01.2025

Sample Location

: Near Weight Briedge

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	56.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	23.0	°C	GGMPL/SOP/MP/01

Tantan Kumar



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Manish Kumawat

Page 1 of 1

---End of Report----

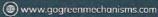
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3561D/79F/05

Reporting Date: 27.01.2025

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID Sampling Instrument

Sample Type Sample Location : Lab/PN/3561D/79F/05

: Weather Monitoring Station : Meteorological Parameter

: Near Railway Siding

Sampling Start Date

Sampling End Date Sample Receipt Date : 16-01-2025 : 17-01-2025

. 20.01.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	56.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	23.0	°C	GGMPL/SOP/MP/01

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3548D/79F/01

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3548D/79F/01

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water

Sample Description:

Railway Siding Office Drinking Water

Sample Quantity:

4L

Sample Condition:

Satisfactory

Sampling Date:

17/01/2025

Sample Receipt Date: Analysis Start Date:

19/01/2025 20/01/2025

Analysis End Date:

27/01/2025

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	158.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	60.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	64.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.54	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.10	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	- 1	IS 3025- Part 5	Agreeable	Agreeabl
8	pH at 25 °C	7.32	-	IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	42.00	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	352.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	279.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3548D/79F/01

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3548D/79F/01

Maulik Prajapati Ground Water

Sample Description: Sample Quantity:

Sample Drawn By:

Sample Type:

Railway Siding Office Drinking Water

4 L

Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 17/01/2025

19/01/2025 20/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.21	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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

10/18

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3548D/79F/02

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3548D/79F/02

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water

Sample Description:

Railway Siding Water Supply

Sample Quantity:

4 L

Sample Condition:

Satisfactory

Sampling Date:

17/01/2025

Sample Receipt Date:

19/01/2025

Analysis Start Date: Analysis End Date:

20/01/2025 27/01/2025

Sampling Method:

27/01/2025 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	151.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	67.33	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	68.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.68	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.33	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeabl
8	pH at 25 °C	7.46	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	54.62	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	381.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	264.00	mg/L	APHA 24th Edn 2340 C	200	600

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/3548D/79F/02

M/s Moil Limited

Chikla Railway Siding Tah-Tumsar District: Bhandara (M.S)

Reporting Date: 28/01/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3548D/79F/02

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water

Sample Description:

Railway Siding Water Supply

Sample Quantity:

4 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

19/01/2025

Analysis Start Date:

20/01/2025

17/01/2025

Analysis End Date: Sampling Method: 27/01/2025 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.42	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As per IS 10500.

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

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Tantan kumar & Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/01

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 29/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3571D/79H/01

Maulik Prajapati Ambient Air

Pathari Sand Lease From 500M

Temp - 26°C & Humidity - 58%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

18/01/2025

19/01/2025 22/01/2025

23/01/2025-28/01/2025

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.69	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.42	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.14	μ g /m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.90	µg/m3	GGMPL/SOP/AA/62	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	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

NORMS AS PER NAAQ STANDARD

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

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Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/02

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 29/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3571D/79H/02

Maulik Prajapati

Ambient Air

Haul Road Of Sand LEASE 2km East

Temp - 27°C & Humidity - 59%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

18/01/2025

19/01/2025 22/01/2025

23/01/2025-28/01/2025

24

25±5°C

		Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.70	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.19	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.88	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.70	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.01	μg/m3	GGMPL/SOP/AA/62	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	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

NORMS AS PER NAAQ STANDARD

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/03

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District: Bhandara (M.S)

Reporting Date: 29/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Fnv Cond -Sample Receipt: Lab/PN/3571D/79H/03

Maulik Prajapati Ambient Air

Ambient Air

Point Of Sand Lease

Temp - 28°C & Humidity - 60%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

18/01/2025

19/01/2025 22/01/2025

23/01/2025-28/01/2025

24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.65	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.10	μ g /m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.84	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.64	μg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL-2.5)	μg/m3	IS 5182- Parl 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	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

NORMS AS PER NAAQ STANDARD

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

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Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/04

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 29/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3571D/79H/04

Maulik Prajapati Ambient Air Pathari Village

Temp - 27°C & Humidity - 59%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

18/01/2025

19/01/2025 22/01/2025

23/01/2025-28/01/2025

Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	72.49	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	48.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.41	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	11.50	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	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	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

NORMS AS PER NAAQ STANDARD

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/05

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 29/01/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

18/01/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3571D/7 9H/05A	Pathari Sand Lease From 500m	Day Time	dB(A)Leq	IS 4758	65.8	-
2	Lab/PN/3571D/7 9H/05B	Haul Road Of Sand Lease 2 KM East	Day Time	dB(A)Leq	IS 4758	63.8	
3	Lab/PN/3571D/7 9H/05C	Point Of Sand Lease	Day Time	dB(A)Leq	IS 4758	64.2	
4	Lab/PN/3571D/7 9H/05D	Pathri Village	Day Time	dB(A)Leq	IS 4758	67.5	-

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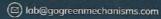
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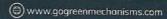
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/06

Reporting Date: 28.01.2025

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District: - Bhandara (M.S)



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3571D/79H/06

: Weather Monitoring Station

: Meteorological Parameter

: Pathari Sand Lease

Sampling Start Date

Sampling End Date

: 19-01-2025

Sample Receipt Date

: 22-01-2025

: 18-01-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.38	m/s	GGMPL/SOP/MP/01:2020	
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01:2020	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	26.0	°C	GGMPL/SOP/MP/01:2020	

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

----End of Report----

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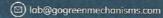
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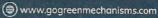
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/07

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28.01.2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3571D/79H/07

: Weather Monitoring Station

: Meteorological Parameter

: Haul Road Of Sand LEASE 2km East

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 18-01-2025

: 19-01-2025

: 22-01-2025

Fr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.38	m/s	GGMPL/SOP/MP/01:2020	
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01:2020	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	26.0	°C	GGMPL/SOP/MP/01:2020	

Reviewed & Authorized by

Tantan Kumar

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Manish Kumawat

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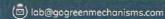
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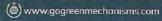
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/08

Reporting Date: 28.01.2025

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3571D/79H/08

: Weather Monitoring Station

: Meteorological Parameter

: Point Of Sand Lease

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 18-01-2025

: 19-01-2025

: 22-01-2025

Parameters	Results	LIDIT	Lest Method	
Wind Speed	1.38	m/s	GGMPL/SOP/MP/01:2020	
Relative Humidity	58.0	%	GGMPL/SOP/MP/01:2020	
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
Temperature	26.0	°C	GGMPL/SOP/MP/01:2020	
	Parameters Wind Speed Relative Humidity Rainfall	Wind Speed 1.38 Relative Humidity 58.0 Rainfall 0.0	Parameters Results Linit Wind Speed 1.38 m/s Relative Humidity 58.0 % Rainfall 0.0 mm	Parameters Results Linit Lest Method Wind Speed 1.38 m/s GGMPL/SOP/MP/01:2020 Relative Humidity 58.0 % GGMPL/SOP/MP/01:2020 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020

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Tantan Kumar



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(L) +91-70690 72001



(22) lab@gogreenmechanisms.com



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3571D/79H/09

Reporting Date: 28.01.2025

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District: - Bhandara (M.S)



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3571D/79H/09

: Weather Monitoring Station

: Meteorological Parameter

: Pathari Village

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 18-01-2025

: 19-01-2025

: 22-01-2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.38	m/s	GGMPL/SOP/MP/01:2020
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01:2020
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	26.0	°C	GGMPL/SOP/MP/01:2020

Reviewed & Authorized by Tantan Kumar

Reviewed & Authorized by Manish Kumawat

----End of Report----

Page 1 of 1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3560D/79H/01

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3560D/79H/01

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water Pathari Sand Lease River

Sample Description: Sample Quantity:

41

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

19/01/2025

20/01/2025 21/01/2025

27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	139.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	39.68	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	51.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.40	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.14	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeabl
8	pH at 25 °C	7.41		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	31.06	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	310.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	186.00	mg/L	APHA 24th Edn 2340 C	200	600

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/3560D/79H/01

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Ground Water Pathari Sand Lease River

Lab/PN/3560D/79H/01

Maulik Prajapati

4 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

19/01/2025

20/01/2025 21/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 Turbid	ty	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15 Manga	nese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitrate		1.83	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17 Total o	oliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18 E. coli		Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3560D/79H/02

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3560D/79H/02

Sample Drawn By:

Maulik Prajapati Ground Water

Sample Type: Sample Description:

Pathari Sand Lease River 2km from site

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

19/01/2025

20/01/2025 21/01/2025

27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	114.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	35.27	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	35.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.23	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.71	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeabl
8	pH at 25 °C	7.72		IS 3025- Part 11	6 5-8 5	No relaxatio
9	Sulphate	11.04	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	230.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	165.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3560D/79H/02

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/3560D/79H/02

Maulik Prajapati Ground Water

Pathari Sand Lease River 2km from site

4L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

19/01/2025

20/01/2025 21/01/2025 27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 T	urbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14 II	ron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15 M	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
	litrate	1.99	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17 T	otal coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18 E	. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3560D/79H/03

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3560D/79H/03

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water

Sample Description:

Pathari Village Borewell

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

19/01/2025

20/01/2025 21/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	153.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	48.09	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	48.21	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.32	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	le Agreeab
8	pH at 25 °C	7.25		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	36.3834	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	354.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	200.00	mg/L	APHA 24th Edn 2340 C	200	600

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/3560D/79H/03

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Sample Quantity:

Sample Condition:

Lab/PN/3560D/79H/03

Maulik Prajapati Ground Water

Pathari Village Borewell

4L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

19/01/2025

20/01/2025 21/01/2025 27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.97	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3560D/79H/04

M/s Moil Limited

Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



TC-7073

NS

200

NS

600

SAMPLE DETAILS

Lab ID:

Lab/PN/3560D/79H/04

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water

Sample Description: Sample Quantity:

Pathari Village (Tola) Borewell

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

APHA 24th Edn 2540 D

APHA 24th Edn 2340 C

27/01/2025 GGMPL/WI/27A

Packing:

Sealed

19/01/2025

20/01/2025

21/01/2025

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	100.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	28.86	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	23.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.21	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.38	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	13.41	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	210.00	mg/L	APHA 24th Edn 2540 C	500	2000

mg/L

mg/L

LLI

BQL (QL=5)

160.00

AL & PL as per IS 10500

11

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

Total Suspended Solids (TSS)

Total Hardness as CaCO3

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by Payal Patel

Page No: 1/2

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AHMEDABAI

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3560D/79H/04

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Pathari Sand Leases 40.410 Tah-Tumsar District:- Bhandara (M.S)

Reporting Date: 28/01/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity: Sample Condition: Lab/PN/3560D/79H/04

Maulik Prajapati Ground Water

Pathari Village (Tola) Borewell

4 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

19/01/2025

20/01/2025 21/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.02	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

PB-Re

Page No: 2/2

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