

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/2571C/06D/V4/01

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2571C/06D/V4/01

Sample Drawn By: Sample Type: Laboratory Representative

Ground Water

Sample Description:

G.W Water Tank Under Ground Source

Sample Quantity: Sample Condition:

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

15/03/2024 25/03/2024 GGMPL/WI/27A

11/03/2024

14/03/2024

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	31.66	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	49.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.33	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	7.53	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	(B)	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.50	* 15112#	IS 3025- Part 11	5.5-8.5	No Relaxation
9	Sulphate	25.66	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	265.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	VS	NS
12	Total Hardness as CaCO3	110.00	mg/L	APHA 23rd Edn 2340 C	200	600

Al & PL As Per IS 10500.

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

Analyzed By Kinjal Damor AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 1/2

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Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



TC-7073

SAMPLE DETAILS

Lah ID:

Sample Drawn By:

Sample Type:

Sample Condition:

Sample Description: Sample Quantity:

Lab/PN/2571C/06D/V4/01 Laboratory Representative

Ground Water

G.W Water Tank Under Ground Source

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

11/03/2024 14/03/2024

15/03/2024 25/03/2024 GGMPL/WI/27A

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	2.69	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & PL As Per IS 10500.

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

Analyzed By Kinjal Damor HMEDABAD 9 *

Authorized Signatory Manish Kumawat

Page No: 2/2

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M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 19/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2574C/06D/V4/01

Sampling Date:

11/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024 15/03/2024

Sample Type: Sample Description:

GW Water Tank Under Ground Source

Analysis Start Date:

18/03/2024

Sample Quantity: Sample Condition: 300 ml

Satisfactory

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total	coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Lab/PN/2571C/06D/V4/02

Laboratory Representative

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 26/03/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity: Sample Condition:

G.W DW-of Admin Office 4.5 L Satisfactory

Ground Water

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing: 15/03/2024 25/03/2024 GGMPL/WI/27A

11/03/2024

14/03/2024

Sealed

Specification:

					-1	
Sr.No	Parameters	Results	Unit	Test Method A	L	PL
1	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edn 2320 B 20	00	600
2	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	5	200
3	Chloride	66.98	mg/L	IS 3025- Part 32	50	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4 5		15
5	Fluoride	3.20	mg/L	APHA 23rd Edn 4500 F D 1.	.0	1.5
6	Magnesium as Mg	17.74	mg/L	APHA 23rd Edn 3500 Mg B 30)	100
7	Odour	Agreeable		IS 3025- Part 5 Ag	greeable	Agreeable
8	pH at 25 °C	8.00	-	IS 3025- Part 11 6.	7-8 7	No Relaxation
9	Sulphate	34.88	mg/L	APHA 23rd Edn 4500 SO4 E 20		400
10	Total Dissolved Solids (TDS)	300.00	mg/L	APHA 23rd Edn 2540 C 50	00	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D NS	5 1	NS
12	Total Hardness as CaCO3	155.00	mg/L	APHA 23rd Edn 2340 C 20	00 (600

Al & PL As Per IS 10500.

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

Analyzed By Kinial Damor AHMEDABAD VI

Authorized Signatory Manish Kumawat

Page No: 1/2

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Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2571C/06D/V4/02

Laboratory Representative

Ground Water

G.W DW-of Admin Office 4.5 L

Sample Quantity: Sample Condition:

Sample Description:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

25/03/2024

Packing:

GGMPL/WI/27A

11/03/2024

14/03/2024

15/03/2024

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	4.55	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & PL As Per IS 10500.

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

Analyzed By Kinial Damor CHAN * Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 19/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2574C/06D/V4/02

Sampling Date:

11/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

15/03/2024 18/03/2024

Sample Description:

GW Drinking Water of Admin Office

Satisfactory

Sampling Method:

Sample Quantity: Sample Condition: 300 ml

GGMPL/WI/27A

Packing:

Sealed

				200		
						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
- B - 1 - 1 - 1 - 1	1 (all of		Present or			
1 Total	coliform	Absent	Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

Authorized Signatory Dr. Haragobinda Srichandan

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Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2571C/06D/V4/03

Sampling Date: Sample Receipt Date: 11/03/2024 14/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative Ground Water

Analysis Start Date: 1

15/03/2024 25/03/2024

Sample Description: Sample Quantity: G.W Hospital Borewell

Analysis End Date: Sampling Method:

25/03/2024 GGMPL/WI/27A

Sample Condition:

4.5 L Satisfactory

Packing:

Sealed

Specification:

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	121.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.09	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	85.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.15	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.04	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	(=)	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.56		IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	30.62	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	300.00	mg/L	APHA 23rd Edn 2540 C	500	1000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	186.00	mg/L	APHA 23rd Edn 2340 C	200	600

Al & PL As Per IS 10500

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Page No: 1/2

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Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 26/03/2024

TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2571C/06D/V4/03

Laboratory Representative

Ground Water G.W Hospital Borewell

Sample Description: Sample Quantity: Sample Condition:

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A Sealed

11/03/2024

14/03/2024

15/03/2024

25/03/2024

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	4.53	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & PL As Per IS 10500

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

Analyzed By Kinjal Damor AHMEDABAD WITH CHARLES TO SENDENCE TO SEND

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2574C/06D/V4/03

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 19/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2574C/06D/V4/03

Sampling Date:

11/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024 15/03/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date:

18/03/2024

Sample Quantity:

GW Hospital Borewell

Sampling Method:

GGMPL/WI/27A

Sample Condition:

300 ml Satisfactory

Packing:

Sealed

Specification:

Sr.No

Unit Test Method ΔΙ

PL

Total coliform

Results Absent

Present or

Absent/100 APHA 9222 A&B 24th Edition 2021

Absent Absent

Present or

E.coli Absent

Parameters

Absent/100 APHA 922H 24th Edition 2021

Absent

Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

HAN *

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/04

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2571C/06D/V4/04

Laboratory Representative Ground Water

D.W of Office Colony (GW)

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Sampling Method: Packing:

Analysis End Date:

11/03/2024 14/03/2024 15/03/2024

25/03/2024

GGMPL/WI/27A

Sealed

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	125.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	50.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	91.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.16	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	- Indiana	IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 °C	7.00		IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	40.13	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	305.00	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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/04

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2571C/06D/V4/04

Laboratory Representative Ground Water

D.W of Office Colony (GW)

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

11/03/2024

14/03/2024 15/03/2024 25/03/2024

GGMPL/WI/27A

Sealed

Specification:

					Specification
Parameters	Results	Unit	Test Method	AL	PL
Total Hardness as CaCO3	190.00	mg/L	APHA 23rd Edn 2340 C	500	2000
Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/45	0.3	No Relaxation
Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
Nitrate	3.29	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation
	Total Hardness as CaCO3 Turbidity Iron Manganese	Total Hardness as CaCO3 190.00 Turbidity BQL (QL=0.1) Iron BQL (QL=0.05) Manganese BQL (QL=0.05)	Total Hardness as CaCO3 190.00 mg/L Turbidity BQL (QL=0.1) NTU Iron BQL (QL=0.05) mg/L Manganese BQL (QL=0.05) mg/L	Total Hardness as CaCO3 190.00 mg/L APHA 23rd Edn 2340 C Turbidity BQL (QL=0.1) NTU APHA 23rd Edn 2130 B Iron BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46	Total Hardness as CaCO3 190.00 mg/L APHA 23rd Edn 2340 C 500 Turbidity BQL (QL=0.1) NTU APHA 23rd Edn 2130 B 1 Iron BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.3 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.1

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2574C/06D/V4/04

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 19/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2574C/06D/V4/04

Laboratory Representative

Sample Type:

300 ml

Satisfactory

GW Drinking Water of Officer Colony

Analysis End Date:

Sampling Date:

Sampling Method:

Sample Receipt Date:

Analysis Start Date:

Packing:

GGMPL/WI/27A

11/03/2024

14/03/2024

15/03/2024

18/03/2024

Sealed

				Scaled		
						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
			Present or			
1 Total	coliform	Absent		APHA 9222 A&B 24th Edition 2021	Absent	Absent
			ml			ribbelle
			Present or			
2 E.coli		Absent	Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/05

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



15/03/2024-25/03/2024

11/03/2024

12/03/2024

14/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2571C/06D/V4/05

Laboratory Representative Ambient Air

Near Mine Office

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

24

Env. Cond.-Testing: 25±5°C

				13-371113- S-3711111-S-371111-III S-3711-III	
C 11	SHEET OF STREET				
Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.00	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.00	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.05	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/05

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2571C/06D/V4/05 Laboratory Representative Ambient Air Near Mine Office

Ambient Temperature Satisfactory

Sampling Start Date: 11/03/2024 Sampling End Date: 12/03/2024 Sample Receipt Date: 14/03/2024

Analysis start- End Date:

15/03/2024-25/03/2024

Total Sampling hours: 24 Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/06

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2571C/06D/V4/06 Laboratory Representative

Ambient Air Near Main Gate

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

11/03/2024 12/03/2024 14/03/2024

15/03/2024-25/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.11	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.59	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.31	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.56	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/06

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2571C/06D/V4/06

Laboratory Representative

Ambient Air Near Main Gate

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

11/03/2024

12/03/2024

14/03/2024

15/03/2024-25/03/2024

- '
25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor Edd of Re

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/07

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



15/03/2024-25/03/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Fny Cond -Sampling:

Lab/PN/2571C/06D/V4/07 Laboratory Representative Ambient Air Near Sixth Level

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

11/03/2024

12/03/2024

14/03/2024

Erry. Corid. Sampling.	Ambient Temperature	Total Sampling hours:	24
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	76.65	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.02	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.90	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.46	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.00	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	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

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/07

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Lab/PN/2571C/06D/V4/07 Laboratory Representative Ambient Air Near Sixth Level

Ambient Temperature

Sampling Start Date: Sampling End Date:

12/03/2024 Sample Receipt Date: 14/03/2024 Analysis start- End Date: 15/03/2024-25/03/2024

Total Sampling hours:

11/03/2024

Env. Cond.-Sampling: 24 Env. Cond.-Sample Receipt: Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temp	erature	31	°C	GGMPL/SOP/MP/01	NS
13 Relativ	ve Humidity	58	%	GGMPL/SOP/MP/01	NS
14 Rainfa	11	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 S	Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/08

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2571C/06D/V4/08 Laboratory Representative

Ambient Air

Ambient Temperature

Near Hospital

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

25±5°C

11/12/2023

12/03/2024

14/03/2024

15/03/2024-25/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.19	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.90	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.22	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.41	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.15	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.78	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/08

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2571C/06D/V4/08

Laboratory Representative Ambient Air

Near Hospital

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Campling basses

14/03/2024 15/03/2024-25/03/2024

11/12/2023

12/03/2024

Total Sampling nours:	24
Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/09

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

11/03/2024

Source Noise

r.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2571C/0 6D/V4/09A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	65.1	-
2	Lab/PN/2571C/0 6D/V4/09B	Nr. Main Gate	Day Time	dB(A)Leq	IS 4758	67.3	
3	Lab/PN/2571C/0 6D/V4/09C	Nr. Sixth level	Day Time	dB(A)Leq	IS 4758	66.4	
4	Lab/PN/2571C/0 6D/V4/09D	Nr.Hospital	Day Time	dB(A)Leq	IS 4758	64.8	
5	Lab/PN/2571C/0 6D/V4/09A	Near Mine Office	Night Time	dB(A)Leq	IS 4758	58.1	
6	Lab/PN/2571C/0 6D/V4/09B	Nr. Main Gate	Night Time	dB(A)Leq	IS 4758	59.3	(*)
7	Lab/PN/2571C/0 6D/V4/09C	Nr. Sixth level	Night Time	dB(A)Leq	IS 4758	61.2	
8	Lab/PN/2571C/0 6D/V4/09D	Nr.Hospital	Night Time	dB(A)Leq	IS 4758	59.3	:50

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Analyzed By Kinial Damor Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2572C/06E/V4/01

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2572C/06E/V4/01

Sampling Date:

11/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024 14/03/2024

Sample Type:

Ground Water

Analysis Start Date:

20/03/2024

Sample Description:

Adarsh Colony Water Supply (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.8 L Satisfactory

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	320.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.13	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	21.38	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Nitrate	BQL (QL=0.5)	mg/L	IS 3025- Part 34	45	No Relaxation
8	Odour	Agreeable	- 1	IS 3025- Part 5	Agreeable	Agreeable
9	pH at 25 °C	7.72		IS 3025- Part 11	6.5-8.5	No relaxation
10	Sulphate	23.78	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
11	Total Dissolved Solids (TDS)	378.00	mg/L	APHA 23rd Edn 2540 C	500	2000

AL & PL As per IS 10500.

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

Analyzed By Jadav Vishal AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2572C/06E/V4/01

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2572C/06E/V4/01

Sampling Date:

11/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024

Sample Type:

Ground Water

Analysis Start Date: 14/03/2024

20/03/2024

Sample Description:

Adarsh Colony Water Supply (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.8 L Satisfactory

Packing:

Sealed

aled

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Total Hardness as CaCO3	186.00	mg/L	APHA 23rd Edn 2340 C	200	600
14	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
15	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
16	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
17	Nitrate	3.06	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As per IS 10500.

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

Analyzed By Jadav Vishal

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2575C/06E/V4/01

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2575C/06E/V4/01

Sampling Date:

11/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

15/03/2024 18/03/2024

Sample Description:

GW Adarsh Colony Water Supply

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 300 ml Satisfactory

Parameters

Packing:

Sealed

Specification:

Sr.No

E.coli

Test Method

AL

PL

Total coliform

Results Absent

Absent

Unit Present or

Absent/100 APHA 9222 A&B 24th Edition 2021

Absent

Absent

Present or

Absent/100 APHA 922H 24th Edition 2021

Absent

Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2572C/06E/V4/02

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2572C/06E/V4/02 Sampling Start Date: 11/03/2024 Sample Drawn By: Sampling End Date: Laboratory Representative 12/03/2024 Sample Type: Ambient Air Sample Receipt Date: 14/03/2024 Sample Description: Near Adarsh Colony Analysis start- End Date: 14/03/2024-20/03/2024

Env. Cond.-Sampling: Ambient Temperature Total Sampling hours: 24

Env. Cond.-Sample Receipt: Satisfactory Env. Cond.-Testing: 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.08	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.78	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.45	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.84	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.81	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Jadav Vishal HAHMEDABAD 2

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2572C/06E/V4/02

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 21/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2572C/06E/V4/02

Laboratory Representative

Ambient Air

Near Adarsh Colony Ambient Temperature

Satisfactory

Sampling Start Date: 11/03/2024 Sampling End Date: 12/03/2024

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

14/03/2024

14/03/2024-20/03/2024

24

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	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	1.38	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal

--- End of Report ---

HMFDABAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2572C/06E/V4/03

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 21/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2572C/06E/V4/03

Laboratory Representative

Ambient Air Bharweli Village Ambient Temperature

Satisfactory

Sampling Start Date: 11/03/2024 Sampling End Date: 12/03/2024

Sample Receipt Date: 14/03/2024

Analysis start- End Date: 14/03/2024-20/03/2024

Total Sampling hours: 2

Env. Cond.-Testing: 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.22	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.01	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.05	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.46	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	20.12	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Jadav Vishal AHMEDABAD)

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2572C/06E/V4/03

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 21/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Env. Cond.-Sampling:

Sample Type: Sample Description: Env. Cond.-Sample Receipt: Lab/PN/2572C/06E/V4/03 Laboratory Representative

Ambient Air Bharweli Village Ambient Temperature

Satisfactory

Sampling Start Date: 11/03/2024 Sampling End Date: 12/03/2024 Sample Receipt Date: 14/03/2024

Analysis start- End Date: 14/03/2024-20/03/2024

Total Sampling hours: 24

25 ± 5 °C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	1.38	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2572C/06E/V4/04

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 21/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

11/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2572C/0 6E/V4/04/A	Adarsh Colony	Day Time	IS 4758	IS 4758	62.4	-
2	Lab/PN/2572C/0 6E/V4/04/B	Bharveli Village	Day Time	IS 4758	IS 4758	64.9	
3	Lab/PN/2572C/0 6E/V4/04/A	Adarsh Colony	Night Time	IS 4758	IS 4758	58.1	
4	Lab/PN/2572C/0 6E/V4/04B	Bharveli Village	Night Time	IS 4758	IS 4758	56.1	

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

Analyzed By Jadav Vishal

End of Report -

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/01

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2573C/06F/V4/01 Laboratory Representative

Awalajare Village (GW) 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

11/03/2024

14/03/2024 14/03/2024

25/03/2024 GGMPL/WI/27A Sealed

Specification

					5	pecification:
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	46.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	14.58	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	
8	pH at 25 °C	7.55		IS 3025- Part 11	6.5 to 8.5	No
9	Sulphate	28.93	mg/L	APHA 23rd Edn 4500 SO4 E		relaxation 400
10	Total Dissolved Solids (TDS)	256.00	mg/L	APHA 23rd Edn 2540 C		
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	12111 00 1 7 1 7 1 7 1		2000
12	Total Hardness as CaCO3	166.00	mg/L	APHA 23rd Edn 2340 C		NS 600
			31 -		200	000

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/01

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2573C/06F/V4/01

11/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative

14/03/2024

Sample Description:

Awalajare Village (GW)

14/03/2024 25/03/2024

Sample Quantity: Sample Condition: 4.5 L

Satisfactory

Analysis Start Date: Analysis End Date: Sampling Method:

Sample Receipt Date:

Sampling Date:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.7	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	1.21	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2576C/06F/V4/01

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 19/03/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2576C/06F/V4/01

Sampling Date:

11/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024

Sample Type:

Water

Analysis Start Date:

15/03/2024 18/03/2024

Sample Description:

GW Awalajare Village Borewell

Analysis End Date:

GGMPL/WI/27A

Sample Quantity:

300 ml

Sampling Method:

Sample Condition:

Satisfactory

Packing:

Sealed

Specification: Unit Test Method AL PL Results Parameters Sr.No Present or Absent/100 APHA 9222 A&B 24th Edition 2021 Absent Absent Total coliform Absent Present or Absent/100 APHA 922H 24th Edition 2021 Absent Absent Absent E.coli ml

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/02

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2573C/06F/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Shivani Camp Borewell (GW)

Sample Quantity:

4.5 L Satisfactory

Sample Condition:

Sampling Date:

11/03/2024

Sample Receipt Date:

14/03/2024

Analysis Start Date: Analysis End Date:

14/03/2024 25/03/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	164.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.89	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	56.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.33	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	17.49	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 to 8.5	No relaxation
9	Sulphate	34.09	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	302.00	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 CaCO3	194.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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



Analyzed By Ritu Shah



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/02

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:

Lab/PN/2573C/06F/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Shivani Camp Borewell (GW)

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

11/03/2024

Sample Receipt Date:

14/03/2024 14/03/2024

Analysis Start Date: Analysis End Date:

25/03/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.2	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	3.86	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2576C/06F/V4/02

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 19/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2576C/06F/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

GW Shivni Camp Borewell

Sample Quantity:

300 ml

Satisfactory Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

15/03/2024 18/03/2024

11/03/2024

14/03/2024

GGMPL/WI/27A

Sealed Packing:

Specification:

		Present or			
1	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
	Absent	Absent/100	APHA 922H 24th Edition 2021	Absent	Absent
		Absent	Present or	Present or Absent Absent/100 APHA 922H 24th Edition 2021	Present or Absent Absent/100 APHA 922H 24th Edition 2021 Absent

AL & PL As Per IS 10500.

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

Nidhi Shah

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/03

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2573C/06F/V4/03

Laboratory Representative

Water

Sample Type: Sample Description:

Sample Quantity:

Sample Condition:

Katangtolla Ward No.3 Borewell(GW)

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

11/03/2024

14/03/2024 14/03/2024

25/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	162.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	49.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	56.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.29	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.46	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.26		IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	40.03	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	318.00	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 CaCO3	200.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Ritu Shah

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/03

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2573C/06F/V4/03

11/03/2024

Sample Drawn By:

Laboratory Representative

14/03/2024

Sample Type: Sample Description:

14/03/2024

Katangtolla Ward No.3 Borewell(GW)

25/03/2024

Sample Quantity: Sample Condition: 4.5 L Satisfactory Analysis End Date: Sampling Method:

Analysis Start Date:

Sample Receipt Date:

Sampling Date:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.4	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	3.98	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By

Ritu Shah

End of Report --

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2576C/06F/V4/03

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:

Lab/PN/2576C/06F/V4/03

Sample Drawn By:

Laboratory Representative

Sample Type:

ampie Type:

vvatei

Sample Description:

GW Katangtolla Word No. 3 Borewell 300 ml

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

11/03/2024

14/03/2024

15/03/2024

18/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 -	Total coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 [E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500

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



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Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/04

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2573C/06F/V4/04

Laboratory Representative

Ambient Air

Awalajare Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

11/03/2024

12/03/2024 14/03/2024

14/03/2024-25/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.15	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.13	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.29	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.21	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Ritu Shah

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/04

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



11/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2573C/06F/V4/04

Laboratory Representative

Ambient Air Awalajare Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

12/03/2024 14/03/2024 14/03/2024-25/03/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temperature	31	°C	GGMPL/SOP/MP/01	NS
13 Relative Humidity	49	%	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	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/05

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2573C/06F/V4/05 Laboratory Representative

Ambient Air Shivni Camp

Ambient Temperature Satisfactory

Sampling Start Date: 11/03/2024 Sampling End Date: 12/03/2024 14/03/2024 Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

14/03/2024-25/03/2024

Env. Cond.-Testing: 25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.43	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	43.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.41	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.14	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Ritu Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/05

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2573C/06F/V4/05

Laboratory Representative

Ambient Air Shivni Camp

Ambient Temperature

Satisfactory

Sampling Start Date: 11/03/2024 Sampling End Date: 12/03/2024

14/03/2024 Sample Receipt Date: 14/03/2024-25/03/2024 Analysis start- End Date:

Total Sampling hours: 24

25±5°C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	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	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

End of Report ---

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/06

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2573C/06F/V4/06 Laboratory Representative

Ambient Air

Katangtolla Ward No.3 Ambient Temperature

Satisfactory

Sampling Start Date: 11/03/2024 Sampling End Date: 12/03/2024 14/03/2024

Sample Receipt Date: Analysis start- End Date:

14/03/2024-25/03/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.14	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.43	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.76	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.24	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By

Ritu Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/06

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2573C/06F/V4/06

Laboratory Representative

Ambient Air

Katangtolla Ward No.3 Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: 11/03/2024

12/03/2024 14/03/2024

14/03/2024-25/03/2024

rs: 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	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	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

- End of Report --

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2573C/06F/V4/07

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 26/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

11/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2573C/0 6F/V4/07A	Awalajare Village	Day Time	dB(A)Leq	IS 4758	65.1	_
2	Lab/PN/2573C/0 6F/V4/07B	Shivani Camp	Day Time	dB(A)Leq	IS 4758	64.3	
3	Lab/PN/2573C/0 6F/V4/07C	Kantangtolla Ward No.03	Day Time	dB(A)Leq	IS 4758	66.4	
4	Lab/PN/2573C/0 6F/V4/07A	Awalajare Village	Night Time	dB(A)Leq	IS 4758	58.9	-
5	Lab/PN/2573C/0 6F/V4/07B	Shivani Camp	Night Time	dB(A)Leq	IS 4758	57.6	
6	Lab/PN/2573C/0 6F/V4/07C	Kantangtolla Ward No.03	Night Time	dB(A)Leq	IS 4758	56.9	-

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

Ritu Shah

- End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/01

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2596C/06H/V4/01

Laboratory Representative Ground Water

Near Office Side Borewell (GW)

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

12/03/2024

14/03/2024 14/03/2024

23/03/2024 GGMPL/WI/27A

Sealed

Specification:

					3	pecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	175.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.24	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	14.58	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85		IS 3025- Part 11	6.5 to 8.5	No
9	Sulphate	45.58	mg/L	APHA 23rd Edn 4500 SO4 E	200	Relaxation 400
10	Total Dissolved Solids (TDS)	350.00	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 CaCO3	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/01

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/2596C/06H/V4/01 Laboratory Representative

Ground Water

Near Office Side Borewell (GW) 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

12/03/2024

14/03/2024 14/03/2024 23/03/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 Turbid	ity	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 Manga	nese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitrate		2.59	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2599C/06H/V4/01

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 20/03/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2599C/06H/V4/01 Laboratory Representative

Water GW Near Office Side Borewell

300 ml Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

12/03/2024

14/03/2024 15/03/2024 19/03/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Tot	al coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.co	oli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/02

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2596C/06H/V4/02

Sampling Date:

12/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date:

14/03/2024 14/03/2024

Sample Description:

Railway Siding Water Supply (GW)

Analysis Start Date: Analysis End Date:

23/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.5 L Satisfactory

Sampling Method:

Packing: Sealed

Specification:

					5	pecification:
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	183.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	65.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.38	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.66		IS 3025- Part 11	6.5 to 8.5	No
9	Sulphate	35.18	mg/L	APHA 23rd Edn 4500 SO4 E	200	Relaxation 400
10	Total Dissolved Solids (TDS)	356.00	mg/L	APHA 23rd Edn 2540 C		2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS
12	Total Hardness as CaCO3	185.00	mg/L	APHA 23rd Edn 2340 C		600

AL & PL As Per IS 10500.

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

Analyzed By Priyanka Shrimali



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/02

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2596C/06H/V4/02 Laboratory Representative

Sampling Date: Sample Receipt Date: 12/03/2024 14/03/2024

Sample Type:

Water

Analysis Start Date: 14/03/2024 Analysis End Date:

23/03/2024 GGMPL/WI/27A

Sample Description: Sample Quantity: Sample Condition:

Railway Siding Water Supply (GW)

Satisfactory

Sampling Method: 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	2.84	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Priyanka Shrimali End of Report

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2599C/06H/V4/02

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2599C/06H/V4/02

Sampling Date:

12/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

15/03/2024 19/03/2024

Sample Description:

GW Railway Siding Water Supply

Sampling Method:

GGMPL/WI/27A

Sample Quantity:

300 ml

Sample Condition:

Satisfactory

Packing:

Sealed

Specification: Sr.No **Parameters** Results Unit Test Method AL Present or Total coliform Absent Absent/100 APHA 9222 A&B 24th Edition 2021 Absent Absent Present or E.coli Absent Absent/100 APHA 922H 24th Edition 2021 Absent Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/03

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2596C/06H/V4/03 Laboratory Representative

Ambient Air

Near Private Office Site Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

12/03/2024

13/03/2024 14/03/2024

14/03/2024-23/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.50	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.01	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.58	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.69	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.21	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/03

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2596C/06H/V4/03

Laboratory Representative

Ambient Air

Near Private Office Site Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 12/03/2024

13/03/2024 14/03/2024

14/03/2024-23/03/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temp	erature	32	°C	GGMPL/SOP/MP/01	NS
13 Relati	ve Humidity	56	%	GGMPL/SOP/MP/01	NS
14 Rainfa	ıll	0.0	mm	GGMPL/SOP/MP/01:2020	Ns
15 Lead		BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wind	Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	Ns

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

Analyzed By Priyanka Shrimali

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/04

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2596C/06H/V4/04

Laboratory Representative

Ambient Air

Near Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

13/03/2024 14/03/2024

12/03/2024

14/03/2024-23/03/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.46	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.39	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.58	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.16	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.64	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/04

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2596C/06H/V4/04 Laboratory Representative

Ambient Air Near Weigh Bridge Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date: 12/03/2024 13/03/2024 14/03/2024

14/03/2024-23/03/2024

Total Sampling hours: 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	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

-- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2596C/06H/V4/05

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat

481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

12/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2596C/0 6H/V4/05A	Near Private Office Site	Day Time	dB(A)Leq	IS 4758	65.9	75
2	Lab/PN/2596C/0 6H/V4/05B	Near weigh bridge	Day Time	dB(A)Leq	IS 4758	67.8	75
3	Lab/PN/2596C/0 6H/V4/05A	Near Private Office Site	Night Time	dB(A)Leq	IS 4758	59.9	55
4	Lab/PN/2596C/0 6H/V4/05B	Near weigh bridge	Night Time	dB(A)Leq	IS 4758	62.3	55

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

Analyzed By Priyanka Shrimali

- End of Report

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/01

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)



SAMPLE DETAILS

Lab ID:

Lab/PN/2597C/06G/V4/01

Sampling Date:

12/03/2024

Sample Drawn By: Sample Type: Laboratory Representative Waste Water Sample Receipt Date: Analysis Start Date:

14/03/2024 16/03/2024 26/03/2024

Sample Description:

W.W. Sine Pond Over Flow Water

Analysis End Date: Sampling Method:

26/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.5 L Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.41	=	IS 3025- Part 11	-
2	Total Suspended Solids	25.90	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	55.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	18	mg/L	IS 3025- Part 44	
7	Manganese	0.16	mg/L	GGMPL/SOP/W & WW/46	-

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

0

Analyzed By Dishant Patel AHMEDABAD P

--- End of Report ---

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Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/02

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/2597C/06G/V4/02 Laboratory Representative

Sampling Date: Sample Receipt Date: 12/03/2024

Sample Type:

Water

Analysis Start Date:

14/03/2024 16/03/2024

Sample Description:

G.W:-132 KVA Pump House

Analysis End Date: Sampling Method:

26/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

THE P		200711			J,	pecification:
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	125.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	44.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	16.28	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.14		IS 3025- Part 11	6.5 to 8.5	No
9	Sulphate	36.67	mg/L	APHA 23rd Edn 4500 SO4 E	200	Relaxation 400
10	Total Dissolved Solids (TDS)	265.00	mg/L	APHA 23rd Edn 2540 C		2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	ADUL OR A PARAMETER AND A PARA		NS
12	Total Hardness as CaCO3	142.00	mg/L			600

AL & PL As Per IS 10500

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

9

Analyzed By Dishant Patel AHMEDABAD &

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/02

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

Reporting Date: 27/03/2024

TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2597C/06G/V4/02 Laboratory Representative Water

G.W:-132 KVA Pump House

4.5 L Satisfactory Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

12/03/2024

14/03/2024 16/03/2024 26/03/2024 GGMPL/WI/27A

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		2.17	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Dishant Patel

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2600C/06G/V4/01

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 19/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2600C/06G/V4/01

Sampling Date:

12/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024

Sample Type:

Water

300 ml

Analysis Start Date: Analysis End Date:

15/03/2024 18/03/2024

Sample Description:

GW 132 KV Pump House

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

				No.	Specification
Parameters	Results	Unit	Test Method	AL	PL
		Present or			
coliform	Absent	Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
		Present or			
	Absent	Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent
	Parameters coliform	coliform Absent	coliform Absent Absent Absent/100 ml Present or Absent Absent/100 Absent/100	coliform Absent Absent Absent Absent Absent Absent Absent Absent/100 APHA 9222 A&B 24th Edition 2021 ml Present or Absent Absent/100 APHA 922H 24th Edition 2021	Parameters Results Unit Test Method AL Present or coliform Absent Absent Absent/100 APHA 9222 A&B 24th Edition 2021 Absent ml Present or Absent Absent/100 APHA 922H 24th Edition 2021 Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/03

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)



SAMPLE DETAILS

Lab ID:

Lab/PN/2597C/06G/V4/03

Sampling Date:

12/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/03/2024

Sample Type:

Water

Satisfactory

Analysis Start Date: Analysis End Date: 16/03/2024 26/03/2024

Sample Description: Sample Quantity: Sample Condition: Wain Ganga River Water Supply S.W 4.5 L

Sampling Method:

GGMPL/WI/27A

Pa

Sealed

Packing:

Specification:

					- 1	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	28.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	16.77	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.02		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	38.65	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	286.00	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 CaCO3	140.00	mg/L	APHA 23rd Edn 2340 C	200	600

Al & PL As per IS 10500

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



Analyzed By Dishant Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/03

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

Lab/PN/2597C/06G/V4/03

Laboratory Representative

Water

(M.P)

Reporting Date: 27/03/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Wain Ganga River Water Supply S.W 4.5 L Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

26/03/2024 GGMPL/WI/27A

Sealed

12/03/2024

14/03/2024

16/03/2024

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	2.17	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & PL As per IS 10500

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

Analyzed By Dishant Patel

--- End of Report ---

CHAN

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2600C/06G/V4/02

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 19/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2600C/06G/V4/02

Sampling Date:

12/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

14/03/2024 15/03/2024

Sample Description:

GW Wainganga River Water Supply

Analysis Start Date:

18/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

300 ml Satisfactory Sampling Method: Packing:

Soolod

ing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah AHMEDABAD

--- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/04

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2597C/06G/V4/04

12/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

14/03/2024

Sample Description:

G.W. Borewell Water

Satisfactory

Sample Receipt Date: Analysis Start Date: Analysis End Date:

16/03/2024 26/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.5 L

Sampling Method:

Sampling Date:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	29.66	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.29	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	19.68	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	2	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.24	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	42.41	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	295.00	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 CaCO3	155.00	mg/L	APHA 23rd Edn 2340 C	200	600

Al & PL As Per IS 10500

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

Analyzed By Dishant Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/04

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2597C/06G/V4/04

12/03/2024

Sample Drawn By:

Laboratory Representative Water

14/03/2024

Sample Type: Sample Description:

G.W. Borewell Water

16/03/2024

Sample Quantity:

4.5 L

Analysis Start Date: Analysis End Date: Sampling Method:

Sample Receipt Date:

26/03/2024 GGMPL/WI/27A

Satisfactory

Sealed

Sample Condition:

Packing:

Sampling Date:

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	3.16	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & PL As Per IS 10500

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

Analyzed By Dishant Patel End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2600C/06G/V4/03

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)



TC-707

SAMPLE DETAILS

Lab ID:

Lab/PN/2600C/06G/V4/03

12/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: 14/03/2024 Analysis Start Date: 15/03/2024

Sample Type: Sample Description:

GW Borewell Water

15/03/2024 18/03/2024

Sample Quantity: Sample Condition: 300 ml Satisfactory Analysis End Date: Sampling Method:

Sampling Date:

GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Tot	al coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.c	oli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah AHMEDABAD P

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/05

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

Satisfactory

(M.P)

Reporting Date: 27/03/2024



TC 7072

12/03/2024

13/03/2024

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2597C/06G/V4/05 Laboratory Representative Ambient Air Near Crusher 1&2 cycle stand Ambient Temprature

Sampling Start Date:
Sampling End Date:
Sample Receipt Date:
Analysis start- End Date:

nple Receipt Date: 14/03/2024 alysis start- End Date: 16/03/2024-26/03/2024 al Sampling hours: 24

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.93	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.96	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.51	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.10	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	BQL (QL=5)	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Analyzed By Dishant Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/05

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Env. Cond.-Sampling:

Sample Description:

Env. Cond.-Sample Receipt:

Lab/PN/2597C/06G/V4/05

Laboratory Representative

Ambient Air

Near Crusher 1&2 cycle stand

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

12/03/2024

13/03/2024 14/03/2024

16/03/2024-26/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

End of Report

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/06

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2597C/06G/V4/06 Laboratory Representative Ambient Air Beside De-Winding Area

Ambient Temprature Satisfactory

Sampling Start Date: 12/03/2024 Sampling End Date: 13/03/2024 Sample Receipt Date: 14/03/2024 16/03/2024-26/03/2024 Analysis start- End Date:

24 Total Sampling hours: Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.98	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.04	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.10	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	BQL (QL=5)	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	0.00000
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Dishant Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/06

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2597C/06G/V4/06

Laboratory Representative

Ambient Air

Beside De-Winding Area Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 12/03/2024 13/03/2024

14/03/2024

16/03/2024-26/03/2024

24 25+

. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	755	%	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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/07

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2597C/06G/V4/07 Laboratory Representative Ambient Air Near Product Bunker Ambient Temprature Satisfactory

 Sampling Start Date:
 12/03/2024

 Sampling End Date:
 13/03/2024

 Sample Receipt Date:
 14/03/2024

 Analysis start- End Date:
 16/03/2024-26/03/2024

Total Sampling hours: 24 Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.05	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.07	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.36	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.72	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	BQL (QL=5)	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Dishant Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/07

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2597C/06G/V4/07

Laboratory Representative Ambient Air

Near Product Bunker Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 12/03/2024 13/03/2024 14/03/2024

16/03/2024-26/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	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	3	m/s	GGMPL/SOP/MP/01:2020	NS
			,-	1001711170112020	

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

Analyzed By Dishant Patel

- End of Report -

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/08

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



TC 7073

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2597C/06G/V4/08 Laboratory Representative Ambient Air Near Mechanical Room Ambient Temprature Satisfactory

 Sampling Start Date:
 12/03/2024

 Sampling End Date:
 13/03/2024

 Sample Receipt Date:
 14/03/2024

 Analysis start- End Date:
 16/03/2024-26/03/2024

 Total Sampling hours:
 24

Total Sampling hours: 24 Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.08	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.55	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.74	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.10	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.18	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	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

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

9

Analyzed By Dishant Patel AHMEDABAC STATE OF ST

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/08

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



TC 7073

SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:
Sample Description:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2597C/06G/V4/08 Laboratory Representative

Ambient Air

Near Mechanical Room Ambient Temprature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: 13/03/2024 14/03/2024

12/03/2024

16/03/2024-26/03/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

SOP/MP/01 NS
101/111/01
SOP/MP/01 NS
SOP/MP/01:2020 NS
lethod IO 3.4
SOP/MP/01:2020 NS
/5

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

Analyzed By Dishant Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2597C/06G/V4/09

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102

(M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date: Sample Description: 12/03/2024

Source Noise

r.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2597C/0 6G/V4/09A	Near Crusher 1&2 Near cycle Stand	Day Time	dB(A)Leq	IS 4758	66.2	
2	Lab/PN/2597C/0 6G/V4/09B	Beside De-winding Area	Day Time	dB(A)Leq	IS 4758	59.9	
3	Lab/PN/2597C/0 6G/V4/09C	Near Product Bunker	Day Time	dB(A)Leq	IS 4758	57.8	
4	Lab/PN/2597C/0 6G/V4/09D	Near Mechanical Room	Day Time	dB(A)Leq	IS 4758	69.2	-
5	Lab/PN/2597C/0 6G/V4/09A	Near Crusher 1&2 Near cycle Stand	Night Time	dB(A)Leq	IS 4758	61.2	- 08 25
6	Lab/PN/2597C/0 6G/V4/09B	Beside De-winding Area	Night Time	dB(A)Leq	IS 4758	56.1	-
7	Lab/PN/2597C/0 6G/V4/09C	Near Product Bunker	Night Time	dB(A)Leq	IS 4758	53.2	
8	Lab/PN/2597C/0 6G/V4/09D	Near Mechanical Room	Night Time	dB(A)Leq	IS 4758	53.4	-

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

Analyzed By Dishant Patel End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/01

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2595C/06GG/V4/01

Laboratory Representative

Sample Drawn By: Sample Type: Sample Description:

GW Ferro Manganese plant Open dugwell

Sample Receipt Date: Analysis Start Date:

Sampling Date:

14/03/2024 14/03/2024

Analysis End Date:

22/03/2024

12/03/2024

Sampling Method:

GGMPL/WI/27A

Sample Qui Sample Cor		ory		Sampling Method: Packing:	GGMPL/WI/27A Sealed		Specification:
Sr.No	Parameters	Results	Unit	Test Method	A	ıL	PL
1 Alk	alinity as CaCO3	120.00	mg/L	APHA 23rd Edn 2320 E	2	200	600
2 Cal	cium as Ca	38.47	mg/L	APHA 23rd Edn 3500 C	Ca B 7	'5	200

1	Alkalinity as CaCO3	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	46.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.24	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.90	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 to 8.5	No relaxation
9	Sulphate	19.42	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	202.00	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

Khushbu Suthar



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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/01

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2595C/06GG/V4/01

12/03/2024 Sampling Date:

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: 14/03/2024 Analysis Start Date: 14/03/2024

Sample Description:

GW Ferro Manganese plant Open dugwell

Analysis End Date:

22/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.5 L

Sampling Method:

Satisfactory

Packing:

Sealed

						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	144.00	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	1.33	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2598C/06GG/V4/01

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 20/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2598C/06GG/V4/01

Sampling Date:

12/03/2024 14/03/2024

Sample Type:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

15/03/2024

Sample Description:

Water GW Ferro Manganese Plant Open Dugwell

Analysis End Date:

19/03/2024

Sample Quantity:

Sample Condition:

300 ml

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
			Present or			
1 Total	al coliform	Absent	Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
			Present or			
2 E.co	oli	Absent	Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi Shah

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/02

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2595C/06GG/V4/02 Laboratory Representative

Sample Type: Sample Description: Waste Water ETP Inlet (WW)

Sample Quantity: Sample Condition:

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

12/03/2024 14/03/2024

14/03/2024 22/03/2024 GGMPL/WI/27A

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65		IS 3025- Part 11	
2	Total Suspended Solids	31.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	3.8	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	23	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.154	mg/L	APHA 23rd Edn 3120 B	

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

Kliveripa Analyzed By Khushbu Suthar

- End of Report

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/03

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2595C/06GG/V4/03

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Waste Water

Sample Quantity:

4.5 L

Sample Condition:

ETP Outlet (WW)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

12/03/2024

14/03/2024 14/03/2024

22/03/2024 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.56	-	IS 3025- Part 11	-
2	Total Suspended Solids	11.00	mg/L	APHA 23rd Edn 2540 D	NEED THE LA
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	13	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.14	mg/L	APHA 23rd Edn 3120 B	

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

Analyzed By Khushbu Suthar CHAN

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/04

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:

Lab/PN/2595C/06GG/V4/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

GW Guest House water Supply

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

12/03/2024

Sample Receipt Date:

14/03/2024

Analysis Start Date:

14/03/2024

Analysis End Date: Sampling Method: 22/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

						•
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	52.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.36	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.42	4	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.19	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	270.00	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 CaCO3	168.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per Is 10500.

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

Analyzed By Khushbu Suthar



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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/04

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Lab/PN/2595C/06GG/V4/04

Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Condition:

Sample Description:

Sample Quantity:

Laboratory Representative Ground Water GW Guest House water Supply

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

12/03/2024

14/03/2024 14/03/2024 22/03/2024

GGMPL/WI/27A 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	2.72	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

of hughbar. Analyzed By Khushbu Suthar End of Repo

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2598C/06GG/V4/02

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 20/03/2024

Specification:



SAMPLE DETAILS

Lab ID:

Lab/PN/2598C/06GG/V4/02

12/03/2024

Sample Drawn By:

Laboratory Representative

Sampling Date: Sample Receipt Date:

14/03/2024

Sample Type:

Water

Analysis Start Date:

15/03/2024 19/03/2024

Sample Description:

GW Guest House Water Supply

Analysis End Date:

GGMPL/WI/27A

Sample Quantity:

300 ml

Sampling Method:

Sample Condition:

Satisfactory

Packing:

Sealed

						specification.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
			Present or			
1	Total coliform	Absent	Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
			Present or			. I may a series
2	E.coli	Absent	Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

End of Repo

Authorized Signatory Dr. Haragobinda Srichandan

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Report Number: GGMPL/PN/2595C/06GG/V4/05

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/2595C/06GG/V4/05 Laboratory Representative

Ambient Air Near Main Gate

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

14/03/2024-22/03/2024

24 25±5°C

12/03/2024

13/03/2024

14/03/2024

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.79	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.20	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/05

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2595C/06GG/V4/05

Laboratory Representative

Ambient Air Near Main Gate

Satisfactory

Ambient Temperature

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

13/03/2024 14/03/2024

12/03/2024

14/03/2024-22/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27.5	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Klushlen. Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/06

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



14/03/2024-22/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2595C/06GG/V4/06

Laboratory Representative Ambient Air

Near Mine office

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

24

25±5°C

12/03/2024

13/03/2024

14/03/2024

	yria. Gampie riesep				
Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.37	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.74	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/06

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Lab/PN/2595C/06GG/V4/06 Laboratory Representative Ambient Air Near Mine office

Sampling Start Date: Sampling End Date: Sample Receipt Date: 12/03/2024 13/03/2024 14/03/2024

Analysis start- End Date:

14/03/2024-22/03/2024

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Ambient Temperature Satisfactory

Total Sampling hours: Env. Cond.-Testing:

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26.5	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	

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

Analyzed By Khushbu Suthar End of Rep

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/07

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2595C/06GG/V4/07 Laboratory Representative Ambient Air

Near Pump House

Ambient Temperature Satisfactory

Sampling Start Date: 12/03/2024 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date:

Analysis start- End Date:

14/03/2024-22/03/2024

24 Total Sampling hours: Env. Cond.-Testing:

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.73	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.07	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.67	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	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

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

Analyzed By Khushbu Suthar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/07

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



12/03/2024

13/03/2024

14/03/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2595C/06GG/V4/07 Laboratory Representative

Ambient Air Near Pump House

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

14/03/2024-22/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27.2	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/08

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2595C/06GG/V4/08

Laboratory Representative Ambient Air Near Furnace

Ambient Temperature

Satisfactory

12/03/2024 Sampling Start Date: Sampling End Date: 13/03/2024

Sample Receipt Date: 14/03/2024 14/03/2024-22/03/2024 Analysis start- End Date:

24 Total Sampling hours: 25±5°C Env. Cond.-Testing:

.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.44	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)	11.03	µg/m3	IS 5182-Part 2	80
1	Nitrogen Dioxide (NO2)	21.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
5	Ammonia (NH3)	7.18	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
3	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
0	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
1	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

Khushbu Suthar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/08

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2595C/06GG/V4/08 Laboratory Representative Ambient Air

Near Furnace Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 14/03/2024 14/03/2024-22/03/2024

24

12/03/2024

13/03/2024

nd.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26.8	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar AMMEDABAD COMMENT --- End of Report ---

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2595C/06GG/V4/09

M/s Moil Limited Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

12/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2595C/0 6GG/V4/09A	Near Main Gate	Day Time	dB(A)Leq	IS 4758	64.6	
2	Lab/PN/2595C/0 6GG/V4/09B	Near Mine Office	Day Time	dB(A)Leq	IS 4758	62.4	in a print
3	Lab/PN/2595C/0 6GG/V4/09C	Near Pump House	Day Time	dB(A)Leq	IS 4758	68.9	Tuesta a
4	Lab/PN/2595C/0 6GG/V4/09D	Near Furnace	Day Time	dB(A)Leq	IS 4758	71.4	-
5	Lab/PN/2595C/0 6GG/V4/09A	Near Main Gate	Night Time	dB(A)Leq	IS 4758	60.3	
6	Lab/PN/2595C/0 6GG/V4/09B	Near Mine Office	Night Time	dB(A)Leq	IS 4758	58.4	2
7	Lab/PN/2595C/0 6GG/V4/09C	Near Pump House	Night Time	dB(A)Leq	IS 4758	61.9	= =
8	Lab/PN/2595C/0 6GG/V4/09D	Near Furnace	Night Time	dB(A)Leq	IS 4758	64.7	-

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

Analyzed By Khushbu Suthar of Repor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Quantity:

Sample Condition:

Sample Type:

Sample Description:

Lab/PN/2614C/06J/V4/01 Laboratory Representative

Ground Water

Kanki Sand Lease up stream (GW)

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

13/03/2024

15/03/2024

16/03/2024

26/03/2024

Sealed

шпрте	Substitution, Substitution,			racking.	Sealed	
					S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	96.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca E	75	200
3	Chloride	126.46	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.24	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.51	mg/L	APHA 23rd Edn 3500 Mg E	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.61	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	35.57	mg/L	APHA 23rd Edn 4500 SO4	E 200	400
10	Total Dissolved Solids (TDS)	295.00	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 and PL as per IS 10500.

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

Kinjal Damor



Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/2614C/06J/V4/01 Laboratory Representative

Ground Water

Kanki Sand Lease up stream (GW)

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

13/03/2024 15/03/2024

16/03/2024

26/03/2024

GGMPL/WI/27A Sealed

10 S S H I					S	pecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	210.00	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	1.05	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as per IS 10500.

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

Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2617C/06J/V5/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 20/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2617C/06J/V5/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Sample Quantity:

Sample Condition:

GW Kanki Sand Lease Upstream

300 ml Satisfactory Sampling Date:

13/03/2024 Sample Receipt Date: 15/03/2024

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

16/03/2024

20/03/2024

					de de la company	Specification:
Sr.No	Parameters	Results	Unit Present or	Test Method	AL	PL
1 Total	coliform	Absent		APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2614C/06J/V4/02

Sampling Date:

13/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

15/03/2024 16/03/2024

Sample Type:

Ground Water Kanki Sand Lease Down Stream (GW)

Analysis Start Date: Analysis End Date:

26/03/2024

Sample Description:

4.5 L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

				· acimigi	Scalca	
					S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	115.00	mg/L	APHA 23rd Edn 2320 B	200	400
2	Calcium as Ca	34.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	97.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.22	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.54	mg/L	APHA 23rd Edn 3500 Mg E	30	100
7	Odour	Agreeable	3016	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.00	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	31.51	mg/L	APHA 23rd Edn 4500 SO4	E 200	400
10	Total Dissolved Solids (TDS)	300.00	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

Analyzed By Kinjal Damor AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Quantity:

Sample Condition:

Sample Drawn By: Sample Type:

Sample Description:

Ground Water

4.5 L

Lab/PN/2614C/06J/V4/02 Laboratory Representative

Kanki Sand Lease Down Stream (GW)

Satisfactory

Sampling Date: 13/03/2024

Sample Receipt Date: 15/03/2024 Analysis Start Date: 16/03/2024 Analysis End Date: 26/03/2024

Sampling Method:

GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	186.00	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	0.75	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

Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2617C/06J/V5/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 20/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2617C/06J/V5/02

Sampling Date:

13/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water Sample Receipt Date:

15/03/2024

Sample Description:

Water

Analysis Start Date: Analysis End Date:

16/03/2024 20/03/2024

GW Kanki Sand Lease Downstream

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Sr.No

300 ml Satisfactory

Packing:

Sealed

Specification:

Parameters Re

Unit Test Method

AL

PL

1 Total coliform

Results

Present or

Absent/100 APHA 9222 A&B 24th Edition 2021

Absent Al

Absent

1 Total Comorni

E.coli

Absent

Absent

nl

Present or

Absent/100 APHA 922H 24th Edition 2021

Absent

Absent

AL & PL As Per IS 10500.

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

Pidh'.
Analyzed By
Nidhi Shah

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Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Quantity:

Sample Condition:

Sample Drawn By: Sample Type:

Lab/PN/2614C/06J/V4/03

Sample Description:

Laboratory Representative Ground Water Kanki Village Borewell (GW)

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

13/03/2024

15/03/2024

16/03/2024

26/03/2024

Sealed

				5		
					S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	125.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	35.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	102.46	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.15	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.75	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
	pH at 25 °C	7.02		IS 3025- Part 11	6.5 - 8.5	No Relaxation
9	Sulphate	29.63	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	329.00	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

Analyzed By Kinjal Damor CHAA

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

4.5 L

Sample Quantity: Sample Condition: Lab/PN/2614C/06J/V4/03

Laboratory Representative Ground Water

Kanki Village Borewell (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

13/03/2024

15/03/2024 16/03/2024 26/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	195.00	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	1.57	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

Analyzed By Kinjal Damor AHMEDABAD

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2617C/06J/V5/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 20/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2617C/06J/V5/03

Laboratory Representative Water

Sample Drawn By: Sample Type: Sample Description:

Water

GW Kanki Village Borewell

Sample Quantity: Sample Condition: 300 ml Satisfactory Sampling Date:

13/03/2024

Sample Receipt Date:

15/03/2024

Analysis Start Date: Analysis End Date: 16/03/2024 20/03/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 To	otal coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.	coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2614C/06J/V4/04

Sampling Date:

13/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

15/03/2024 16/03/2024

Sample Type:

Ground Water

Analysis Start Date: Analysis End Date:

26/03/2024

Sample Description:

Moil water Supply Pump House (GW)

Sampling Method:

APHA 23rd Edn 2540 D

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

4.5 L

Packing:

Sealed

Specification: Parameters Results Unit Test Method AL PL Alkalinity as CaCO3 135.00 mg/L APHA 23rd Edn 2320 B 200 600 2 Calcium as Ca 56.11 mg/L APHA 23rd Edn 3500 Ca B 75 200 3 Chloride 117.46 mg/L IS 3025- Part 32 250 1000 BQL (QL=1) Colour CU IS 3025- Part 4 5 15 5 Fluoride 0.22 APHA 23rd Edn 4500 F D mg/L 1.0 1.5 6 Magnesium as Mg 14.58 mg/L APHA 23rd Edn 3500 Mg B 30 100 7 Odour Agreeable IS 3025- Part 5 Agreeable Agreeable 8 pH at 25 °C 7.35 IS 3025- Part 11 6.5-8.5 Relaxation 9 Sulphate 32.90 APHA 23rd Edn 4500 SO4 E mg/L 200 400 10 Total Dissolved Solids (TDS) 332.00 mg/L APHA 23rd Edn 2540 C 500 2000

AL & PL as per IS 10500.

Total Suspended Solids (TSS)

11

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

BQL (QL=5)

Analyzed By Kinjal Damor AHMEDASAD E

mg/L

Authorized Signatory Manish Kumawat

Page No: 1/2

NS

NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

4.5 L

Sample Quantity: Sample Condition:

Lab/PN/2614C/06J/V4/04 Laboratory Representative

Ground Water

Moil water Supply Pump House (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

13/03/2024

15/03/2024

16/03/2024

26/03/2024

Sr.No Parameters Results Unit Test Method AL PL 12 Total Hardness as CaCO3 200.00 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 0.76 mg/L APHA 23rd Edn 4500 NO3 B 45 No Relaxation							Specification:
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 0.76 mg/L APHA 23rd Edn 4500 NO3 B 45 No	Sr.No	Parameters	Results	Unit	Test Method	AL	PL
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 0.76 mg/L APHA 23rd Edn 4500 NO3 B 45 No	12	Total Hardness as CaCO3	200.00	mg/L	APHA 23rd Edn 2340 C	200	600
15 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.3 relaxation 16 Nitrate 0.76 mg/L APHA 23rd Edn 4500 NO3 B 45 No	13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
15 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.1 0.3 16 Nitrate 0.76 mg/L APHA 23rd Edn 4500 NO3 B 45 No	14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	
0.70 Hig/L APHA 23rd Edn 4500 NO3 B 45	15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	
	16	Nitrate	0.76	mg/L	APHA 23rd Edn 4500 NO3 B	45	

AL & PL as per IS 10500.

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

Analyzed By Kinjal Damor End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2617C/06J/V5/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 20/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2617C/06J/V5/04

Sampling Date:

13/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

15/03/2024

Sample Type:

Analysis Start Date:

16/03/2024

Sample Description: Sample Quantity:

GW Moil Water Supply Pump House

Analysis End Date: Sampling Method:

20/03/2024 GGMPL/WI/27A

Sample Condition:

300 ml Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total	coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

-- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/05

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2614C/06J/V4/05 Laboratory Representative Ambient Air

Kanki Sand Up stream

Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date:

16/03/2024-26/03/2024

Ambient Temperature

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No Parameters Results Unit NAAQ Standards Test Method Particulate Matter (PM10) 71.09 1 µg/m3 IS 5182- Part 23 100 GGMPL/SOP/AA/60 Issue No.02 2 Particulate Matter (PM2.5) 35.41 µg/m3 60 August 01 Sulphur Dioxide (SO2) 13.55 µg/m3 IS 5182-Part 2 80 4 Nitrogen Dioxide (NO2) 22.90 IS 5182- Part 6 µg/m3 80 Ozone (O3) 5 11.76 µg/m3 IS 5182- Part 9 100 GGMPL/SOP/AA/62 Issue No.02 6 Ammonia (NH3) 10.12 µg/Nm3 400 August 01 Benzene BQL (QL=2.5) µg/m3 IS 5182- Part 11 5 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12 1 9 Carbon Monoxide (CO) 1.05 mg/m3 IS 5182- Part 10 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4 20 Arsenic as As BQL (QL=1) ng/m3 USEPA Method IO 3.4

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/05

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



16/03/2024-26/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2614C/06J/V4/05

Laboratory Representative Ambient Air

Kanki Sand Up stream

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

25±5°C

13/03/2024

14/03/2024

15/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/06

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Arsenic as As

Lab/PN/2614C/06J/V4/06 Laboratory Representative Ambient Air Kanki Sand down stream

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

15/03/2024 16/03/2024-26/03/2024

Total Sampling hours: Env. Cond.-Testing:

24 25±5°C

13/03/2024

14/03/2024

					3 &
Sr.No	Parameters	Results	Unit	Test Method	NAAO Standarda
1	Particulate Matter (PM10)	76.26	µg/m3	IS 5182- Part 23	NAAQ Standards
2	Particulate Matter (PM2.5)	37.07	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.28	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.98	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.22	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03391	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20

BQL (QL=1)

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

Analyzed By Kinjal Damor

ng/m3 USEPA Method IO 3.4

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/06

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2614C/06J/V4/06

Laboratory Representative Ambient Air

Kanki Sand down stream

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

13/03/2024 14/03/2024

15/03/2024

16/03/2024-26/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	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	
16	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/07

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2614C/06J/V4/07 Laboratory Representative

Ambient Air Near Pump House Balaghat

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

25±5°C

13/03/2024

14/03/2024

15/03/2024

16/03/2024-26/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.81	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.75	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.15	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/07

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Sample Description:

Laboratory Representative Ambient Air Near Pump House Balaghat

Lab/PN/2614C/06J/V4/07

Ambient Temperature Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024 Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

25±5°C

16/03/2024-26/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

End of Report

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/08

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2614C/06J/V4/08 Laboratory Representative Ambient Air

Near Kanki Village

Ambient Temperature Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024 Analysis start- End Date: 16/03/2024-26/03/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.30	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.07	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05109	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/08

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2614C/06J/V4/08 Laboratory Representative Ambient Air

Near Kanki Village

Ambient Temperature Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date:

16/03/2024-26/03/2024

Total Sampling hours: Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Te	emperature	32	°C	GGMPL/SOP/MP/01	NS
13 Re	elative Humidity	59	%	GGMPL/SOP/MP/01	NS
14 Ra	ainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Le	ead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16 W	/ind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	

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

Analyzed By Kinjal Damor

End of Report -

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2614C/06J/V4/09

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

13/03/2024 Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2614C/0 6J/V4/09A	Kanki Sand Lease Upstream	Day Time	dB(A)Leq	IS 4758	67.1	-
2	Lab/PN/2614C/0 6J/V4/09B	Kanki Sand Lease Downstream	Day Time	dB(A)Leq	IS 4758	66.9	
3	Lab/PN/2614C/0 6J/V4/09C	Nr. Shiv Mandir	Day Time	dB(A)Leq	IS 4758	65.8	
4	Lab/PN/2614C/0 6J/V4/09D	Nr. Kanki Village	Day Time	dB(A)Leq	IS 4758	68.2	-
5	Lab/PN/2614C/0 6J/V4/09A	Kanki Sand up stream	Night Time	dB(A)Leq	IS 4758	59.1	-
6	Lab/PN/2614C/0 6J/V4/09B	Kanki Sand Lease Downstream	Night Time	dB(A)Leq	IS 4758	57.7	-
7	Lab/PN/2614C/0 6J/V4/09C	Nr. Shiv Mandir	Night Time	dB(A)Leq	IS 4758	56.6	
8	Lab/PN/2614C/0 6J/V4/09D	Nr. Kanki Village	Night Time	dB(A)Leq	IS 4758	55.7	-

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

Analyzed By Kinjal Damor

End of Report --

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:

Lab/PN/2613C/06K/V4/01

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Kanki Sand River Bank (GW)

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sampling Date.

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 13/03/2024

15/03/2024 16/03/2024 26/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	154.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	33.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	56.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.68	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.30	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	32.70	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	281.00	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 CaCO3	165.00	mg/L	APHA 23rd Edn 2340 C	200	600

Al & PL As Per IS 10500

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

Analyzed By Dishant Patel



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Report Number: GGMPL/PN/2613C/06K/V4/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2613C/06K/V4/01

Sampling Date:

13/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

15/03/2024

Sample Type:

Water Kanki Sand River Bank (GW) Analysis Start Date: 16/03/2024 Analysis End Date:

26/03/2024

Sample Description: Sample Quantity: Sample Condition:

4.5 L Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.2	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	1.71	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/2616C/06K/V5/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2616C/06K/V5/01

Sample Drawn By:

Laboratory Representative

Sample Type: Water

Sample Description: GW

Sample Quantity:
Sample Condition:

GW Kanki Sand River Bank

300 ml Satisfactory Sampling Date:

13/03/2024

Sample Receipt Date: Analysis Start Date:

15/03/2024 18/03/2024 22/03/2024

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 To	otal coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.	coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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



AHMEDABAD P

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2613C/06K/V4/02

Sampling Date:

13/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

15/03/2024 16/03/2024

Sample Type: Sample Description:

Water Kanki Sand 500m From River Bank (GW)

Analysis End Date: Sampling Method:

26/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.5 L Satisfactory

Packing:

Sealed

Specification:

					Ü	pecineacioni
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	146.00	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	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.32	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.28	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.21		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.13	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	260.00	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 CaCO3	155.00	mg/L	APHA 23rd Edn 2340 C	200	600

Al & PL Per IS 10500

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

Analyzed By Dishant Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Quantity:

Sample Description:

4.5 L

Sample Condition:

Lab/PN/2613C/06K/V4/02 Laboratory Representative

Water

Kanki Sand 500m From River Bank (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

13/03/2024

15/03/2024 16/03/2024 26/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.8	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	1.15	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & PL Per IS 10500

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

Analyzed By Dishant Patel

End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2616C/06K/V5/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2616C/06K/V5/02

Sampling Date:

13/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

15/03/2024 18/03/2024

Sample Description:

GW Kanki Sand 500m From River Bank

Analysis End Date:

22/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 300 ml Satisfactory Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml Present or	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent		APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

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Authorized Signatory Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2613C/06K/V4/03

Sample Drawn By:

Laboratory Representative

Sample Type: Water

Sample Description:

Garra Village Borewell (GW)

Sample Quantity: 4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

13/03/2024

15/03/2024 16/03/2024

26/03/2024

GGMPL/WI/27A

Sealed

Specification:

					- 1	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	123.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	26.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	52.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.15	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.79	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	26.36	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	235.00	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 CaCO3	130.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By

Dishant Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2613C/06K/V4/03 Laboratory Representative

Water

Garra Village Borewell (GW)

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

13/03/2024

15/03/2024 16/03/2024 26/03/2024 GGMPL/WI/27A

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	0.70	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Dishant Patel End of Report

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2616C/06K/V5/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/2616C/06K/V5/03

Laboratory Representative

Water

Sample Type:

Water

Sample Description:

GW Garra Village Borewell

Sample Quantity: 300 ml Sample Condition: Satisfactory Sampling Date:

13/03/2024 15/03/2024

Sample Receipt Date: Analysis Start Date:

18/03/2024 22/03/2024

Analysis End Date: Sampling Method:

22/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total	coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2613C/06K/V4/04

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description: Sample Quantity:

Majapar Village Borewell (GW)

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

13/03/2024

15/03/2024

16/03/2024

26/03/2024

Specification:

					-1	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	130.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	64.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.17	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	13.12	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.41		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	30.12	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	278.00	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 CaCO3	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By

Dishant Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/2613C/06K/V4/04 Laboratory Representative

Water

Majapar Village Borewell (GW)

4.5 L Satisfactory Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

13/03/2024

15/03/2024 16/03/2024 26/03/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Param	neters 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	1.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Dishant Patel --- End of Report -

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2616C/06K/V5/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2616C/06K/V5/04

Sample Drawn By:

Sample Condition:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

GW Majapur Village Borewell

300 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

13/03/2024

15/03/2024

18/03/2024

22/03/2024

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total	coliform	Absent	ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

-- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/05

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2613C/06K/V4/05

Laboratory Representative

Ambient Air

Kanki Sand River Bank Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

13/03/2024

14/03/2024 15/03/2024

16/03/2024-26/03/2024 24

25±5°C

Sr.No	Parameters Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.44	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.93	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.62	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/05

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2613C/06K/V4/05 Laboratory Representative

Ambient Air

Kanki Sand River Bank Ambient Temprature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

13/03/2024 14/03/2024 15/03/2024

16/03/2024-26/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/06

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2613C/06K/V4/06 Laboratory Representative Ambient Air

Kanki sand 500 m From River Bank

Ambient Temprature

Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date:

16/03/2024-26/03/2024 Total Sampling hours: 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.72	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)	15.98	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.97	μg/m3	IS 5182- Part 6	60
5	Ozone (O3)	13.93	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.05	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	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

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/06

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2613C/06K/V4/06

Laboratory Representative

Ambient Air

Kanki sand 500 m From River Bank

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

13/03/2024 14/03/2024 15/03/2024

16/03/2024-26/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temp	erature	32	°C	GGMPL/SOP/MP/01	NS
13 Relativ	ve Humidity	58	%	GGMPL/SOP/MP/01	NS
14 Rainfa	II	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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/07

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2613C/06K/V4/07

Laboratory Representative Ambient Air

Garra Village Ambient Temprature

Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date:

16/03/2024-26/03/2024 Total Sampling hours: 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.47	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)	12.37	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.86	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.01	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.18	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/07

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2613C/06K/V4/07 Laboratory Representative

Ambient Air Garra Village Ambient Temprature

Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date: Total Sampling hours:

16/03/2024-26/03/2024

Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

End of Report

HMEDABA

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/08

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2613C/06K/V4/08

Laboratory Representative

Ambient Air Majapar Village

Ambient Temprature Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date:

16/03/2024-26/03/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.21	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)	14.33	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.11	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.31	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.05	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.062	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/08

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2613C/06K/V4/08

Laboratory Representative

Ambient Air Majapar Village Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 13/03/2024 14/03/2024 15/03/2024

16/03/2024-26/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Dishant Patel

- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2613C/06K/V4/09

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

13/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2613C/0 6K/V4/09A	Kanki Sand River	Day Time	dB(A)Leq	IS 4758	66.1	-
2	Lab/PN/2613C/0 6K/V4/09B	Kanki Sand 500m From river bank	Day Time	dB(A)Leq	IS 4758	67.2	
3	Lab/PN/2613C/0 6K/V4/09C	Garra Village	Day Time	dB(A)Leq	IS 4758	65.4	
4	Lab/PN/2613C/0 6K/V4/09D	Majapar Village	Day Time	dB(A)Leq	IS 4758	64.9	
5	Lab/PN/2613C/0 6K/V4/09A	Kanki Sand River	Night Time	dB(A)Leq	IS 4758	59.1	
6	Lab/PN/2613C/0 6K/V4/09B	Kanki Sand 500m From river bank	Night Time	dB(A)Leq	IS 4758	58.2	-
7	Lab/PN/2613C/0 6K/V4/09C	Garra Village	Night Time	dB(A)Leq	IS 4758	57.6	
8	Lab/PN/2613C/0 6K/V4/09D	Majapar Village	Night Time	dB(A)Leq	IS 4758	58.6	

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

Analyzed By Dishant Patel

End of Report -

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2612C/06I/V4/01

Laboratory Representative

Ground Water

Sample Description:

Sample Drawn By:

Sample Type:

G.W Kanki sand lease pump house Upstream Analysis End Date:

Sample Quantity: Sample Condition: 4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Sampling Method: Packing:

13/03/2024

15/03/2024 15/03/2024 22/03/2024

GGMPL/WI/27A

Sealed

Specification.

					Specification
Sr.No	Parameters	Results	Unit	Test Method AL	PL
1	Alkalinity as CaCO3	306.00	mg/L	APHA 23rd Edn 2320 B 200	600
2	Calcium as Ca	38.48	mg/L	APHA 23rd Edn 3500 Ca B 75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32 250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4 5	15
5	Fluoride	0.54	mg/L	APHA 23rd Edn 4500 F D 1	1.5
6	Magnesium as Mg	18.95	mg/L	APHA 23rd Edn 3500 Mg B 30	100
7	Odour	Agreeable	-	IS 3025- Part 5 Agree	able Agreeable
8	pH at 25 °C	7.21		IS 3025- Part 11 6.5 to	8.5 No Relaxation
9	Sulphate	21.60	mg/L	APHA 23rd Edn 4500 SO4 E 200	400
10	Total Dissolved Solids (TDS)	366.00	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 CaCO3	174.00	mg/L	APHA 23rd Edn 2340 C 200	600

AL & PL as Per 10500.

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/2612C/06I/V4/01 Laboratory Representative

Sampling Date: Sample Receipt Date:

13/03/2024 15/03/2024 15/03/2024

Sample Type:

Ground Water

Analysis Start Date: G.W Kanki sand lease pump house Upstream Analysis End Date:

22/03/2024

Sample Description: Sample Quantity:

4.5 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	0.70	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as Per 10500.

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

Analyzed By Jadav Vishal AHMEDABAD * End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2615C/06I/V5/01

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2615C/06I/V5/01

Sampling Date:

13/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

15/03/2024

Sample Type:

Analysis Start Date:

18/03/2024

Sample Description:

GW Kanki Sand Lease Pump House Upstream Analysis End Date:

22/03/2024

Sample Quantity:

300 ml

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification: Sr.No **Parameters** Results Unit Test Method AL Present or Total coliform Absent Absent/100 APHA 9222 A&B 24th Edition 2021 Absent Absent Present or E.coli Absent Absent/100 APHA 922H 24th Edition 2021 Absent Absent

AL & PL As Per IS 10500.

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

Analyzed By

AHMEDABAD *

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2612C/06I/V4/02 Laboratory Representative

Ground Water

G.W Kanki sand lease pump house down

stream 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

13/03/2024

15/03/2024 15/03/2024 22/03/2024

GGMPL/WI/27A

Sealed

Specification: Sr.No Parameters Results Unit Test Method PI pH at 25 °C No 1 7.35 IS 3025-Part 11 6.5 to 8.5 Relaxation Alkalinity as CaCO3 310.00 mg/L APHA 23rd Edn 2320 B 200 600 3 Calcium as Ca 42.48 mg/L APHA 23rd Edn 3500 Ca B 75 200 Chloride 61.98 mg/L IS 3025 -Part 32 250 1000 5 Colour BQL (QL=1) IS 3025 Part-4 CU 5 15 6 Fluoride (F) 0.39 mg/L APHA 23rd Edn 4500 F D 1.5 7 Magnesium as Mg 18.95 mg/L APHA 23rd Edn 3500 Mg B 30 100 8 Odour Agreeable IS 3025 Part-5 Agreeable Agreeable 9 Sulphate 25.96 mg/L APHA 23rd Edn 4500 SO4 E 200 400 10 Total Dissolved Solids 402.00 mg/L APHA 23rd Edn 2540 C 500 2000 Total Hardness as CaCO3 184.00 mg/L APHA 23rd Edn 2340 C 200 600

AL & PL As Per IS 10500.

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

Jaday Vishal

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity: Sample Condition:

Nitrate

16

Lab/PN/2612C/06I/V4/02 Laboratory Representative

1.39

Ground Water G.W Kanki sand lease pump house down

stream 4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

APHA 23rd Edn 4500 NO3 B

15/03/2024 22/03/2024

13/03/2024

15/03/2024

GGMPL/WI/27A Sealed

Specification: Sr.No **Parameters** Results Unit Test Method PL 12 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS NS 13 Turbidity BQL (QL=0.1) NTU APHA 23rd Edn 2130 B 5 1 14 Iron No BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.3 Relaxation 15 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.1 0.3

mg/L

AL & PL As Per IS 10500.

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

Analyzed By Jaday Vishal

AHMEDABAD End of Report -

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Page No: 2/2

No

Relaxation

45

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2615C/06I/V5/02

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

GW Kanki Sand Lease Pump House Downstream

300 ml Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

13/03/2024 15/03/2024

18/03/2024

22/03/2024

Lab/PN/2615C/06I/V5/02

Laboratory Representative

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

Specification: Sr.No Parameters Results Unit Test Method AI PI Present or Total coliform Absent Absent/100 APHA 9222 A&B 24th Edition 2021 Absent Absent Present or E.coli Absent Absent/100 APHA 922H 24th Edition 2021 Absent Absent

AL & PL As Per IS 10500.

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

Analyzed By

End of Report --

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2612C/06I/V4/03

Sample Drawn By: Sample Type: Laboratory Representative

Ground Water

Sample Description:

G.W Balaghat MC Pump House

Sample Quantity: Sample Condition:

4.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 13/03/2024

15/03/2024 15/03/2024 22/03/2024

GGMPL/WI/27A Sealed

Specification:

						p contractor.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.41	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	280.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.23	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	15.07	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.98	mg/L	APHA 23rd Edn 4500 SO4 E		400
10	Total Dissolved Solids	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	156.00	mg/L	APHA 23rd Edn 2340 C		600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS

AL & PL As Per IS 10500.

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

Analyzed By Jadav Vishal AHMEDABAD PY

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID. Sample Drawn By:

Sample Description:

Sample Type:

Lab/PN/2612C/06I/V4/03 Laboratory Representative

Ground Water

G.W Balaghat MC Pump House

4.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

15/03/2024 22/03/2024 GGMPL/WI/27A

13/03/2024

15/03/2024

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	1.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Jaday Vishal

End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2615C/06I/V5/03

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2615C/06I/V5/03

Laboratory Representative

Sample Description:

Sample Drawn By:

Sample Type:

GW Balaghat MC Pump House

Sampling Date:

13/03/2024

Sample Receipt Date:

15/03/2024

Analysis Start Date:

18/03/2024

Analysis End Date:

22/03/2024

Sample Quantity: Sample Condition:

300 ml

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

					Specification:		
Sr.No	Parameters	Results	Unit	Test Method	AL	PL	
1 Total	coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent	
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent	

AL & PL As Per IS 10500.

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

*

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2612C/06I/V4/04

Laboratory Representative Ground Water

Borewell water Agriculture land (GW)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

13/03/2024

15/03/2024 15/03/2024

22/03/2024 GGMPL/WI/27A

Sealed

Specification:

					18.	occincation.
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.16		IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	316.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	53.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.97	mg/L	APHA 23rd Edn 4500 SO4 E		400
10	Total Dissolved Solids	386.00	mg/L	APHA 23rd Edn 2540 C		2000
11	Total Hardness as CaCO3	176.00	mg/L	APHA 23rd Edn 2340 C		600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS

AL & PL As Per IS 10500.

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/04

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2612C/06I/V4/04

Laboratory Representative

Ground Water

Sample Description: Sample Quantity:

Borewell water Agriculture land (GW)

4.5 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

13/03/2024

15/03/2024 15/03/2024 22/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	1.94	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

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Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

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M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2615C/06I/V5/04

Sampling Date:

13/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

15/03/2024 01/01/0001

Sample Type: Sample Description: Water GW Borewell Water Agriculture Land

Analysis End Date:

22/03/2024

Sample Quantity:

300 ml

Parameters

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Sr.No

Satisfactory

Packing:

Sealed

Specification: PL

Total coliform

Results

Unit Test Method Present or

Absent

Absent/100

APHA 9222 A&B 24th Edition 2021

Absent Absent

E.coli

Absent

Present or

Absent/100 APHA 922H 24th Edition 2021

Absent

Absent

AL & PL As Per IS 10500.

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

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/05

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2612C/06I/V4/05

Laboratory Representative

Ambient Air

Kanki Sand lease pump house upstream

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 13/03/2024

14/03/2024 15/03/2024

15/03/2024-22/03/2024

24

25 ± 5 °C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.06	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)	12.07	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.19	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.37	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
1	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 Jadav Vishal AHMEDABAD P

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/05

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2612C/06I/V4/05 Laboratory Representative Ambient Air Kanki Sand lease pump house upstream

Ambient Temperature Satisfactory Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date: 15/03/2024-22/03/2024
Total Sampling hours: 24

Env. Cond.-Testing: 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Te	mperature	31	°C	GGMPL/SOP/MP/01	NS
13 Re	lative Humidity	58	%	GGMPL/SOP/MP/01	NS
14 Ra	infall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Lea	ad	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wi	nd Speed	6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/06

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2612C/06I/V4/06 Laboratory Representative

Ambient Air

Kanki Sand lease pump house Down stream Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

25 ± 5 °C

13/03/2024

14/03/2024

15/03/2024

15/03/2024-22/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.95	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)	12.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.33	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.69	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.81	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	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

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

Analyzed By Jadav Vishal

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/06

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/2612C/06I/V4/06

stream

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Laboratory Representative Ambient Air

Kanki Sand lease pump house Down

Ambient Temperature Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 15/03/2024

Sample Receipt Date: Analysis start- End Date:

15/03/2024-22/03/2024

Total Sampling hours: Env. Cond.-Testing:

25 ± 5 °C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/07

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2612C/06I/V4/07

Laboratory Representative

Ambient Air

500M Away from shiv Mandir

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

rt- End Date: 15/03/2024-22/03/2024 ling hours: 24

24

25 ± 5 °C

13/03/2024

14/03/2024

15/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.03	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	30.83 µg/m3 GGMPL/SOP/AA/60 Issue No.02 August 01		60
3	Sulphur Dioxide (SO2)	13.11	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.22	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.80	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	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

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

Analyzed By Jadav Vishal AHMEDABAD PV

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Report Number: GGMPL/PN/2612C/06I/V4/07

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/2612C/06I/V4/07 Laboratory Representative Ambient Air

500M Away from shiv Mandir Ambient Temperature

Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date: Total Sampling hours:

15/03/2024-22/03/2024 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	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6	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/2612C/06I/V4/08

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2612C/06I/V4/08 Laboratory Representative

Ambient Air

Balaghat MC Pump house Ambient Temperature

Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date: 15/03/2024-22/03/2024 Total Sampling hours:

Env. Cond.-Testing:

 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.43	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.05	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.84	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.86	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/2612C/06I/V4/08

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2612C/06I/V4/08 Laboratory Representative

Ambient Air

Balaghat MC Pump house Ambient Temperature Satisfactory

Sampling Start Date: 13/03/2024 Sampling End Date: 14/03/2024 Sample Receipt Date: 15/03/2024

Analysis start- End Date: Total Sampling hours:

15/03/2024-22/03/2024

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	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	0.00051	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/09

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist. Balaghat (M.P)

Reporting Date: 23/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

13/03/2024

Source Noise

r.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2612C/0 6I/V4/09/A	Kanki Sand lease pump house upstream	Day Time	dB(A)Leq	IS 4758	65.4	-
2	6I/V4/09/B	Kanki Sand lease pump house down stream	Day Time	dB(A)Leq	IS 4758	66.9	
3	Lab/PN/2612C/0 6I/V4/09/C	500M Away from Shiv Mandir	Day Time	dB(A)Leq	IS 4758	64.3	
4	Lab/PN/2612C/0 6I/V4/09/D	Balaghat MC Pump house	Day Time	dB(A)Leq	IS 4758	64.3	-
5	Lab/PN/2612C/0 6I/V4/09/A	Kanki Sand lease pump house upstream	Night Time	dB(A)Leq	IS 4758	58.1	
6	Lab/PN/2612C/0 6I/V4/09/B	Kanki Sand lease pump house down stream	Night Time	dB(A)Leq	IS 4758	57.6	-
7	Lab/PN/2612C/0 6I/V4/09/C	500M Away from Shiv Mandir	Night Time	dB(A)Leq	IS 4758	56.7	
8	Lab/PN/2612C/0 6I/V4/09/D	Balaghat MC Pump house	Night Time	dB(A)Leq	IS 4758	57.8	-

Analyzed By Jadav Vishal

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

Authorized Signatory Manish Kumawat

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