

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2571C/06D/V4/01

Reporting Date : 26/03/2024

M/s Moil Limited

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

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/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:	15/03/2024
Sample Description:	G.W Water Tank Under Ground Source	Analysis End Date:	25/03/2024
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
1	Alkalinity as CaCO ₃	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	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.50	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	25.66	mg/L	APHA 23rd Edn 4500 SO ₄ 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	NS	NS
12	Total Hardness as CaCO ₃	110.00	mg/L	APHA 23rd Edn 2340 C	200	600

AI & 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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Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/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:	15/03/2024
Sample Description:	G.W Water Tank Under Ground Source	Analysis End Date:	25/03/2024
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	2.69	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL As Per IS 10500.

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Report Number: GGMPL/PN/2574C/06D/V4/01

Reporting Date : 19/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



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
Sample Type:	Water	Analysis Start Date:	15/03/2024
Sample Description:	GW Water Tank Under Ground Source	Analysis End Date:	18/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	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.

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Analyzed By
Nidhi Shah



--- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

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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 : 26/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2571C/06D/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: G.W DW-of Admin Office
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 25/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	66.98	mg/L	IS 3025- Part 32	250	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	Agreeable	Agreeable
8	pH at 25 °C	8.00	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	34.88	mg/L	APHA 23rd Edn 4500 SO ₄ 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
12	Total Hardness as CaCO ₃	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
Kinjal Damor



Authorized Signatory
Manish Kumawat

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Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 26/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/02	Sampling Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	G.W DW-of Admin Office	Analysis End Date:	25/03/2024
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	4.55	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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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 : 19/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2574C/06D/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Drinking Water of Admin Office

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 18/03/2024

Sample Quantity: 300 ml
Sample Condition: 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.

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Nidhi
Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 26/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2571C/06D/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: G.W Hospital Borewell
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 25/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	Agreeable	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 SO ₄ 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 CaCO ₃	186.00	mg/L	APHA 23rd Edn 2340 C	200	600

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Reporting Date : 26/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2571C/06D/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: G.W Hospital Borewell
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
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	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

AI & PL As Per IS 10500

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Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2574C/06D/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Hospital Borewell
Sample Quantity: 300 ml
Sample Condition: Satisfactory

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 18/03/2024
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

Nidhi
Analyzed By
Nidhi Shah



H8
Authorized Signatory
Dr. Haragobinda Srichandan

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P.)



SAMPLE DETAILS

Lab ID: Lab/PN/2571C/06D/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: D.W of Office Colony (GW)

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 25/03/2024

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A
Packing: Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	-	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	40.13	mg/L	APHA 23rd Edn 4500 SO ₄ 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

Reporting Date : 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2571C/06D/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: D.W of Office Colony (GW)

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 25/03/2024

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Method: GGMPL/W1/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	190.00	mg/L	APHA 23rd Edn 2340 C	500	2000
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	3.29	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LN/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:	Lab/PN/2574C/06D/V4/04	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
Sample Description:	GW Drinking Water of Officer Colony	Analysis End Date:	18/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/LN/27A
Sample Condition:	Satisfactory	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

Nidhi
Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/05	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	15/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.00	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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/05	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	15/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/06	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Main Gate	Analysis start- End Date:	15/03/2024-25/03/2024
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)	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/06	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Main Gate	Analysis start- End Date:	15/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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 Limit

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/07	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Sixth Level	Analysis start- End Date:	15/03/2024-25/03/2024
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)	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

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/V4/07

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/07	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Sixth Level	Analysis start- End Date:	15/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Kinjal Damor



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/08	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Hospital	Analysis start- End Date:	15/03/2024-25/03/2024
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)	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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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2571C/06D/V4/08	Sampling Start Date:	11/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Hospital	Analysis start- End Date:	15/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharwelj, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

11/03/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2571C/06D/V4/09A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	65.1	-
2	Lab/PN/2571C/06D/V4/09B	Nr. Main Gate	Day Time	dB(A)Leq	IS 4758	67.3	-
3	Lab/PN/2571C/06D/V4/09C	Nr. Sixth level	Day Time	dB(A)Leq	IS 4758	66.4	-
4	Lab/PN/2571C/06D/V4/09D	Nr.Hospital	Day Time	dB(A)Leq	IS 4758	64.8	-
5	Lab/PN/2571C/06D/V4/09A	Near Mine Office	Night Time	dB(A)Leq	IS 4758	58.1	-
6	Lab/PN/2571C/06D/V4/09B	Nr. Main Gate	Night Time	dB(A)Leq	IS 4758	59.3	-
7	Lab/PN/2571C/06D/V4/09C	Nr. Sixth level	Night Time	dB(A)Leq	IS 4758	61.2	-
8	Lab/PN/2571C/06D/V4/09D	Nr.Hospital	Night Time	dB(A)Leq	IS 4758	59.3	-

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2572C/06E/V4/01

Reporting Date : 21/03/2024

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



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
Sample Description:	Adarsh Colony Water Supply (GW)	Analysis End Date:	20/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

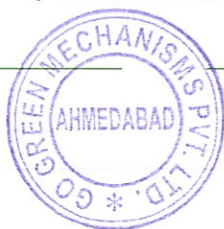
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	-	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 SO ₄ 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



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/03/2024

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/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
Sample Description:	Adarsh Colony Water Supply (GW)	Analysis End Date:	20/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGML/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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 CaCO ₃	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	GGML/SOP/W & WW/46	0.3	No Relaxation
16	Manganese	BQL (QL=0.05)	mg/L	GGML/SOP/W & WW/46	0.1	0.3
17	Nitrate	3.06	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No Relaxation

AL & PL As per IS 10500.

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

Analyzed By
Jadav Vishal



--- End of Report ---

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2575C/06E/V4/01

Reporting Date : 19/03/2024

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



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:	15/03/2024
Sample Description:	GW Adarsh Colony Water Supply	Analysis End Date:	18/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	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


Analyzed By
Nidhi Shah



--- End of Report ---


Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/03/2024

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/2572C/06E/V4/02	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	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



Authorized Signatory
Manish Kumawat

Page No : 1/2

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Head Office & Lab

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

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/03/2024

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2572C/06E/V4/02	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	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
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 ---

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Manish Kumawat

Page No : 2/2

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Mobile No : +91-7069072001

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/03/2024

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/2572C/06E/V4/03	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Bharweli Village	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)	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

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Jadav Vishal



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/03/2024

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2572C/06E/V4/03	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Bharweli Village	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
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/03/2024

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 11/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2572C/06E/V4/04/A	Adarsh Colony	Day Time	IS 4758	IS 4758	62.4	-
2	Lab/PN/2572C/06E/V4/04/B	Bharweli Village	Day Time	IS 4758	IS 4758	64.9	-
3	Lab/PN/2572C/06E/V4/04/A	Adarsh Colony	Night Time	IS 4758	IS 4758	58.1	-
4	Lab/PN/2572C/06E/V4/04B	Bharweli Village	Night Time	IS 4758	IS 4758	56.1	-

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Analyzed By
Jadav Vishal



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Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 26/03/2024

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/V4/01	Sampling Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	14/03/2024
Sample Description:	Awalajare Village (GW)	Analysis End Date:	25/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

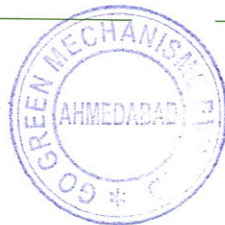
Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	Agreeable
8	pH at 25 °C	7.55	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	28.93	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	256.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	166.00	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




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Manish Kumawat

Page No : 1/2

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 26/03/2024

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/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Awalajare Village (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

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



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 19/03/2024

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/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Awaljare Village Borewell

Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 18/03/2024

Sample Quantity: 300 ml
Sample Condition: 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

Nidhi Shah

Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 26/03/2024

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	Sampling Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	14/03/2024
Sample Description:	Shivani Camp Borewell (GW)	Analysis End Date:	25/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

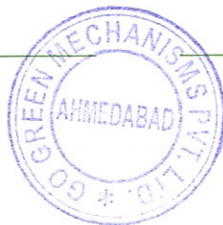
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	164.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.89	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	56.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.33	mg/L	APHA 23rd Edn 4500 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 SO ₄ 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 CaCO ₃	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

Ritu

Analyzed By
Ritu Shah



Manish

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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 26/03/2024

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	Sampling Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	14/03/2024
Sample Description:	Shivani Camp Borewell (GW)	Analysis End Date:	25/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

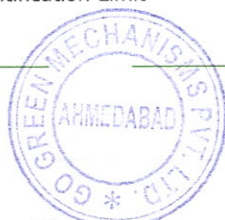
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.2	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.86	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Ritu

Analyzed By
Ritu Shah



--- End of Report ---

Manish

Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 19/03/2024

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/2576C/06F/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Shivni Camp Borewell
Sample Quantity: 300 ml
Sample Condition: Satisfactory

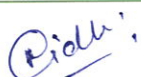
Sampling Date: 11/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 18/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

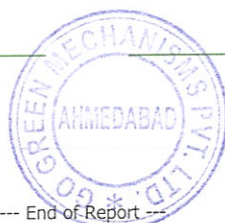
Specification:

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


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/2573C/06F/V4/03

Reporting Date : 26/03/2024

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/V4/03	Sampling Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	14/03/2024
Sample Description:	Katangtolla Ward No.3 Borewell(GW)	Analysis End Date:	25/03/2024
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
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	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

Analyzed By
Ritu Shah



Manish

Authorized Signatory
Manish Kumawat

Page No : 1/2

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Head Office & Lab

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 26/03/2024

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/V4/03	Sampling Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	14/03/2024
Sample Description:	Katangtolla Ward No.3 Borewell(GW)	Analysis End Date:	25/03/2024
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	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

Ritu

Analyzed By
Ritu Shah



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Manish

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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 19/03/2024

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	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
Sample Description:	GW Katangtolla Word No. 3 Borewell	Analysis End Date:	18/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	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

Nidhi

Analyzed By
Nidhi Shah



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H8

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Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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Reporting Date: 26/03/2024

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/V4/04	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Awalajare Village	Analysis start- End Date:	14/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.15	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



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Manish Kumawat

Page No : 1/2

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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

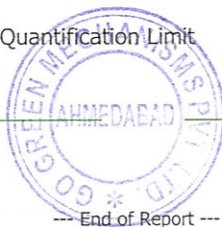
Lab ID:	Lab/PN/2573C/06F/V4/04	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Awalajare Village	Analysis start- End Date:	14/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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



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Ritu Shah



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Page No : 2/2

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Reporting Date: 26/03/2024

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/V4/05	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Shivni Camp	Analysis start- End Date:	14/03/2024-25/03/2024
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)	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

Ritu

Analyzed By
Ritu Shah



Manish

Authorized Signatory
Manish Kumawat

Page No : 1/2

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

M/s Moil Limited

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

Balaghat Dist. Balaghat 481102 (M.P)




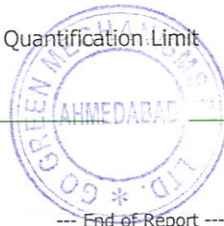
SAMPLE DETAILS

Lab ID:	Lab/PN/2573C/06F/V4/05	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Shivni Camp	Analysis start- End Date:	14/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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 ---


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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

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

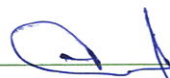
Lab ID:	Lab/PN/2573C/06F/V4/06	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Katangtolla Ward No.3	Analysis start- End Date:	14/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.14	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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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

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

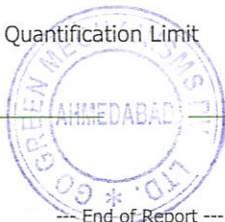
Lab ID:	Lab/PN/2573C/06F/V4/06	Sampling Start Date:	11/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	12/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Katangtolla Ward No.3	Analysis start- End Date:	14/03/2024-25/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 26/03/2024

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

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

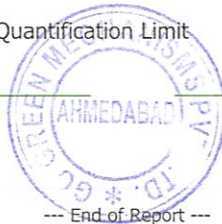
Sampling Date: 11/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2573C/06F/V4/07A	Awalajare Village	Day Time	dB(A)Leq	IS 4758	65.1	-
2	Lab/PN/2573C/06F/V4/07B	Shivani Camp	Day Time	dB(A)Leq	IS 4758	64.3	-
3	Lab/PN/2573C/06F/V4/07C	Kantangtolla Ward No.03	Day Time	dB(A)Leq	IS 4758	66.4	-
4	Lab/PN/2573C/06F/V4/07A	Awalajare Village	Night Time	dB(A)Leq	IS 4758	58.9	-
5	Lab/PN/2573C/06F/V4/07B	Shivani Camp	Night Time	dB(A)Leq	IS 4758	57.6	-
6	Lab/PN/2573C/06F/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

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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: Lab/PN/2596C/06H/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Near Office Side Borewell (GW)
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: 23/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 Relaxation
9	Sulphate	45.58	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	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 CaCO ₃	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




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Manish Kumawat

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Gujarat. INDIA

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:	Lab/PN/2596C/06H/V4/01	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Ground Water	Analysis Start Date:	14/03/2024
Sample Description:	Near Office Side Borewell (GW)	Analysis End Date:	23/03/2024
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	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




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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



SAMPLE DETAILS

Lab ID: Lab/PN/2599C/06H/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Near Office Side Borewell
Sample Quantity: 300 ml
Sample Condition: Satisfactory

Sampling Date: 12/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 19/03/2024
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

Nidhi
Analyzed By
Nidhi Shah



HR
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



SAMPLE DETAILS


Lab ID:	Lab/PN/2596C/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:	14/03/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	23/03/2024
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
1	Alkalinity as CaCO ₃	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 Relaxation
9	Sulphate	35.18	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	356.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	185.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2596C/06H/V4/02

Reporting Date : 23/03/2024

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2596C/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:	14/03/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	23/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/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	GGMP/L/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/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




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 20/03/2024

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



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:	15/03/2024
Sample Description:	GW Railway Siding Water Supply	Analysis End Date:	19/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

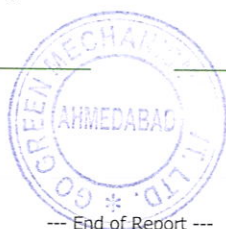
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	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

Nidhi
Analyzed By
Nidhi Shah



H8
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

M/s Moil Limited
Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



TC-7073

SAMPLE DETAILS

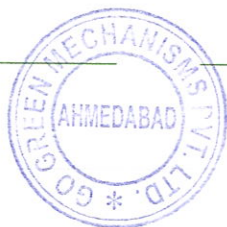
Lab ID:	Lab/PN/2596C/06H/V4/03	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Private Office Site	Analysis start- End Date:	14/03/2024-23/03/2024
Env. Cond.-Sampling:	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)	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

Priyanka

Analyzed By
Priyanka Shrimali



Manish

Authorized Signatory
Manish Kumawat

Page No : 1/2

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481102 (M.P)




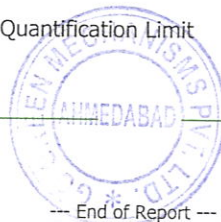
SAMPLE DETAILS

Lab ID:	Lab/PN/2596C/06H/V4/03	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Private Office Site	Analysis start- End Date:	14/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	6.1	m/s	GGMPL/SOP/MP/01:2020	Ns

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

M/s Moil Limited
Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



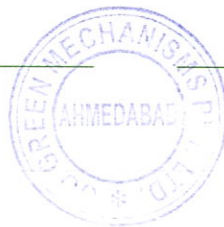
SAMPLE DETAILS

Lab ID:	Lab/PN/2596C/06H/V4/04	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	14/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.46	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

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Reporting Date: 23/03/2024

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)




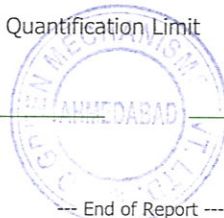
SAMPLE DETAILS


Lab ID:	Lab/PN/2596C/06H/V4/04	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	14/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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

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Priyanka Shrimali




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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 12/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2596C/06H/V4/05A	Near Private Office Site	Day Time	dB(A)Leq	IS 4758	65.9	75
2	Lab/PN/2596C/06H/V4/05B	Near weigh bridge	Day Time	dB(A)Leq	IS 4758	67.8	75
3	Lab/PN/2596C/06H/V4/05A	Near Private Office Site	Night Time	dB(A)Leq	IS 4758	59.9	55
4	Lab/PN/2596C/06H/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




Authorized Signatory
Manish Kumawat

Page No : 1/1

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Head Office & Lab

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426
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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

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:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Waste Water	Analysis Start Date:	16/03/2024
Sample Description:	W.W. Sine Pond Over Flow Water	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.41	-	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 °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


Analyzed By
Dishant Patel



--- End of Report ---


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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2597C/06G/V4/02	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	G.W:-132 KVA Pump House	Analysis End Date:	26/03/2024
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
1	Alkalinity as CaCO ₃	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 Relaxation
9	Sulphate	36.67	mg/L	APHA 23rd Edn 4500 SO ₄ 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	NS	NS
12	Total Hardness as CaCO ₃	142.00	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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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

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/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W:-132 KVA Pump House
Sample Quantity: 4.5 L
Sample Condition: Satisfactory


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

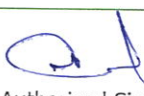
AL & PL As Per IS 10500

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


Analyzed By
Dishant Patel



--- End of Report ---


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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 19/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

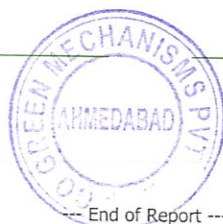
Lab ID:	Lab/PN/2600C/06G/V4/01	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	15/03/2024
Sample Description:	GW 132 KV Pump House	Analysis End Date:	18/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	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

Nidhi
Analyzed By
Nidhi Shah



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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

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
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Wain Ganga River Water Supply S.W
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 12/03/2024
Sample Receipt Date: 14/03/2024
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
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	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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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

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	Analysis Start Date:	16/03/2024
Sample Description:	Wain Ganga River Water Supply S.W	Analysis End Date:	26/03/2024
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	2.17	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL As per IS 10500

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Analyzed By
Dishant Patel



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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



SAMPLE DETAILS

Lab ID:	Lab/PN/2600C/06G/V4/02	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	15/03/2024
Sample Description:	GW Wainganga River Water Supply	Analysis End Date:	18/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	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

Nidhi

Analyzed By
Nidhi Shah



--- End of Report ---

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Dr. Haragobinda Srichandan

Page No : 1/1

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Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

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/V4/04	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	G.W. Borewell Water	Analysis End Date:	26/03/2024
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
1	Alkalinity as CaCO ₃	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	-	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 SO ₄ 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 CaCO ₃	155.00	mg/L	APHA 23rd Edn 2340 C	200	600

AI & 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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Head Office & Lab

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426
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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMP/LP/2597C/06G/V4/04

Reporting Date : 27/03/2024

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/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W. Borewell Water
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 12/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 16/03/2024
Analysis End Date: 26/03/2024
Sampling Method: GGMP/LP/27A
Packing: Sealed

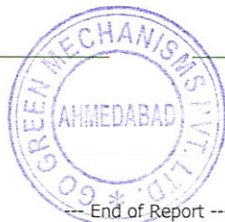
Specification:

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	GGMP/LP/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/LP/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.16	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL As Per IS 10500

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

Analyzed By
Dishant Patel



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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/V4/03

Reporting Date : 19/03/2024

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/2600C/06G/V4/03	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	15/03/2024
Sample Description:	GW Borewell Water	Analysis End Date:	18/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

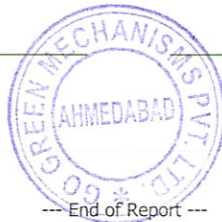
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi Shah

Analyzed By
Nidhi Shah



H8

Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

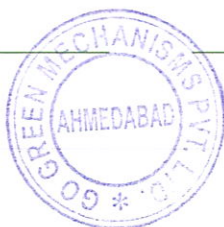
Lab ID:	Lab/PN/2597C/06G/V4/05	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Crusher 1&2 cycle stand	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.93	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



Analyzed By
Dishant Patel




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



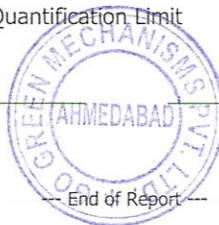
SAMPLE DETAILS

Lab ID:	Lab/PN/2597C/06G/V4/05	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Crusher 1&2 cycle stand	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

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/V4/06	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Beside De-Winding Area	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.98	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

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Dishant Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

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/V4/06	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Beside De-Winding Area	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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

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Analyzed By
Dishant Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

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/V4/07	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Product Bunker	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.05	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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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

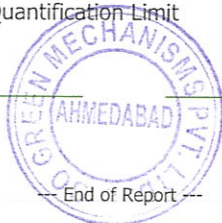
Lab ID:	Lab/PN/2597C/06G/V4/07	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Product Bunker	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

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/V4/08	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Mechanical Room	Analysis start- End Date:	16/03/2024-26/03/2024
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)	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

Analyzed By
Dishant Patel



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Manish Kumawat

Page No : 1/2

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2597C/06G/V4/08	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Mechanical Room	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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	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/2597C/06G/V4/09

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

12/03/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2597C/06G/V4/09A	Near Crusher 1&2 Near cycle Stand	Day Time	dB(A)Leq	IS 4758	66.2	-
2	Lab/PN/2597C/06G/V4/09B	Beside De-winding Area	Day Time	dB(A)Leq	IS 4758	59.9	-
3	Lab/PN/2597C/06G/V4/09C	Near Product Bunker	Day Time	dB(A)Leq	IS 4758	57.8	-
4	Lab/PN/2597C/06G/V4/09D	Near Mechanical Room	Day Time	dB(A)Leq	IS 4758	69.2	-
5	Lab/PN/2597C/06G/V4/09A	Near Crusher 1&2 Near cycle Stand	Night Time	dB(A)Leq	IS 4758	61.2	-
6	Lab/PN/2597C/06G/V4/09B	Beside De-winding Area	Night Time	dB(A)Leq	IS 4758	56.1	-
7	Lab/PN/2597C/06G/V4/09C	Near Product Bunker	Night Time	dB(A)Leq	IS 4758	53.2	-
8	Lab/PN/2597C/06G/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



Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

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:	Lab/PN/2595C/06GG/V4/01	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	14/03/2024
Sample Description:	GW Ferro Manganese plant Open dugwell	Analysis End Date:	22/03/2024
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
1	Alkalinity as CaCO ₃	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 SO ₄ 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
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

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:	Lab/PN/2595C/06GG/V4/01	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	14/03/2024
Sample Description:	GW Ferro Manganese plant Open dugwell	Analysis End Date:	22/03/2024
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
12	Total Hardness as CaCO ₃	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 NO ₃ B	45	No Relaxation

AL & PL As Per IS 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 20/03/2024

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/2598C/06GG/V4/01	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Water	Analysis Start Date:	15/03/2024
Sample Description:	GW Ferro Manganese Plant Open Dugwell	Analysis End Date:	19/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	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

Nidhi

Analyzed By
Nidhi Shah



HS

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

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:	Lab/PN/2595C/06GG/V4/02	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Waste Water	Analysis Start Date:	14/03/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	22/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.65	-	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 °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

Khushbu
Analyzed By
Khushbu Suthar



--- End of Report ---

Manish
Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

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:	Lab/PN/2595C/06GG/V4/03	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Waste Water	Analysis Start Date:	14/03/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	22/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

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	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Ground Water	Analysis Start Date:	14/03/2024
Sample Description:	GW Guest House water Supply	Analysis End Date:	22/03/2024
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
1	Alkalinity as CaCO ₃	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	Agreeable	Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.19	mg/L	APHA 23rd Edn 4500 SO ₄ 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 CaCO ₃	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

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:	Lab/PN/2595C/06GG/V4/04	Sampling Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	14/03/2024
Sample Type:	Ground Water	Analysis Start Date:	14/03/2024
Sample Description:	GW Guest House water Supply	Analysis End Date:	22/03/2024
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	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

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Analyzed By
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CERTIFICATE OF ANALYSIS

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

Reporting Date : 20/03/2024

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/2598C/06GG/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Guest House Water Supply

Sampling Date: 12/03/2024
Sample Receipt Date: 14/03/2024
Analysis Start Date: 15/03/2024
Analysis End Date: 19/03/2024

Sample Quantity: 300 ml
Sample Condition: 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

Nidhi

Analyzed By
Nidhi Shah



HS

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

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:	Lab/PN/2595C/06GG/V4/05	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Main Gate	Analysis start- End Date:	14/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

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

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

Khushbu
Analyzed By
Khushbu Suthar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

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: Lab/PN/2595C/06GG/V4/05
Sample Drawn By: Laboratory Representative
Sample Type: Ambient Air
Sample Description: Near Main Gate

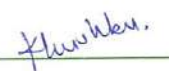
Sampling Start Date: 12/03/2024
Sampling End Date: 13/03/2024
Sample Receipt Date: 14/03/2024
Analysis start- End Date: 14/03/2024-22/03/2024

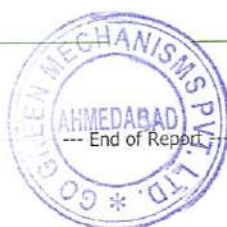
Env. Cond.-Sampling: Ambient Temperature
Env. Cond.-Sample Receipt: Satisfactory

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

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:	Lab/PN/2595C/06GG/V4/06	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Mine office	Analysis start- End Date:	14/03/2024-22/03/2024
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)	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

M/s Moil Limited

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



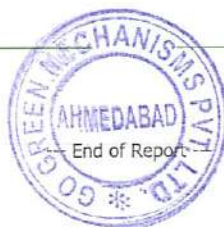
SAMPLE DETAILS

Lab ID:	Lab/PN/2595C/06GG/V4/06	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Mine office	Analysis start- End Date:	14/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

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/V4/07	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Pump House	Analysis start- End Date:	14/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.73	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)	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
Khushbu Suthar



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

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:	Lab/PN/2595C/06GG/V4/07	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Pump House	Analysis start- End Date:	14/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

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:	Lab/PN/2595C/06GG/V4/08	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Furnace	Analysis start- End Date:	14/03/2024-22/03/2024
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)	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
4	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
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)	1.05	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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

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:	Lab/PN/2595C/06GG/V4/08	Sampling Start Date:	12/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	13/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	14/03/2024
Sample Description:	Near Furnace	Analysis start- End Date:	14/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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

Khushbu
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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 12/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2595C/06GG/V4/09A	Near Main Gate	Day Time	dB(A)Leq	IS 4758	64.6	-
2	Lab/PN/2595C/06GG/V4/09B	Near Mine Office	Day Time	dB(A)Leq	IS 4758	62.4	-
3	Lab/PN/2595C/06GG/V4/09C	Near Pump House	Day Time	dB(A)Leq	IS 4758	68.9	-
4	Lab/PN/2595C/06GG/V4/09D	Near Furnace	Day Time	dB(A)Leq	IS 4758	71.4	-
5	Lab/PN/2595C/06GG/V4/09A	Near Main Gate	Night Time	dB(A)Leq	IS 4758	60.3	-
6	Lab/PN/2595C/06GG/V4/09B	Near Mine Office	Night Time	dB(A)Leq	IS 4758	58.4	-
7	Lab/PN/2595C/06GG/V4/09C	Near Pump House	Night Time	dB(A)Leq	IS 4758	61.9	-
8	Lab/PN/2595C/06GG/V4/09D	Near Furnace	Night Time	dB(A)Leq	IS 4758	64.7	-

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

Khushbu

Analyzed By
Khushbu Suthar



Manish

Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

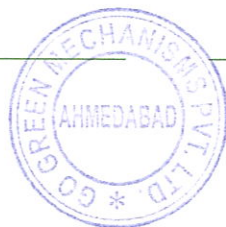
Lab ID:	Lab/PN/2614C/06J/V4/01	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Sand Lease up stream (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL	
1	Alkalinity as CaCO ₃	96.00	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	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 B	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 SO ₄ 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

[Signature]
Analyzed By
Kinjal Damor



[Signature]
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2614C/06J/V4/01

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/01	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Sand Lease up stream (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL	
12	Total Hardness as CaCO ₃	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	GGMP/L/SOP/W & WW/46	0.3	No Relaxation	
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3	
16	Nitrate	1.05	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No Relaxation	

AL and 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/V5/01

Reporting Date : 20/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2617C/06J/V5/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Kanki Sand Lease Upstream

Sampling Date: 13/03/2024
Sample Receipt Date: 15/03/2024
Analysis Start Date: 16/03/2024
Analysis End Date: 20/03/2024

Sample Quantity: 300 ml
Sample Condition: 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


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



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
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Sand Lease Down Stream (GW)	Analysis End Date:	26/03/2024
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	
1	Alkalinity as CaCO ₃	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 B	30	100	
7	Odour	Agreeable	-	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 SO ₄ 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



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:	Lab/PN/2614C/06J/V4/02	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Sand Lease Down Stream (GW)	Analysis End Date:	26/03/2024
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
12	Total Hardness as CaCO ₃	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 NO ₃ B	45	No Relaxation

AL & PL as per IS 10500

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

Analyzed By
Kinjal Damor



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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



SAMPLE DETAILS

Lab ID: Lab/PN/2617C/06J/V5/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Kanki Sand Lease Downstream

Sampling Date: 13/03/2024
Sample Receipt Date: 15/03/2024
Analysis Start Date: 16/03/2024
Analysis End Date: 20/03/2024


Sample Quantity: 300 ml
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Specification:	
					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


Analyzed By
Nidhi Shah




Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2614C/06J/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Kanki Village Borewell (GW)

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

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A
Packing: Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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
8	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 SO ₄ 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



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/03	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Village Borewell (GW)	Analysis End Date:	26/03/2024
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
12	Total Hardness as CaCO ₃	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 NO ₃ B	45	No Relaxation

AL & PL as per IS 10500.

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/2617C/06J/V5/03

Reporting Date : 20/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2617C/06J/V5/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Kanki Village Borewell
Sample Quantity: 300 ml
Sample Condition: Satisfactory

Sampling Date: 13/03/2024
Sample Receipt Date: 15/03/2024
Analysis Start Date: 16/03/2024
Analysis End Date: 20/03/2024
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

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Analyzed By
Nidhi Shah



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



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
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Moil water Supply Pump House (GW)	Analysis End Date:	26/03/2024
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	
1	Alkalinity as CaCO ₃	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	
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	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	No Relaxation	
9	Sulphate	32.90	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400	
10	Total Dissolved Solids (TDS)	332.00	mg/L	APHA 23rd Edn 2540 C	500	2000	
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS	

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

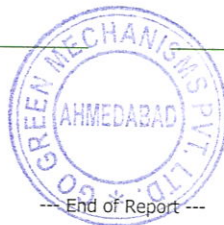
Lab ID:	Lab/PN/2614C/06J/V4/04	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Moil water Supply Pump House (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Specification:	
					AL	PL
12	Total Hardness as CaCO ₃	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

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: GGMP/L/PN/2617C/06J/V5/04

Reporting Date : 20/03/2024

M/s Moil Limited

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



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:	Water	Analysis Start Date:	16/03/2024
Sample Description:	GW Moil Water Supply Pump House	Analysis End Date:	20/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

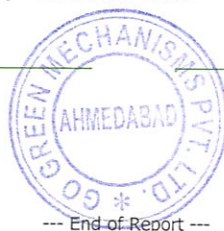
Specification:

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


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Nidhi Shah




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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/05	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand Up stream	Analysis start- End Date:	16/03/2024-26/03/2024
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)	71.09	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)	13.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.90	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.76	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.12	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/05	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand Up stream	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/06	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand down stream	Analysis start- End Date:	16/03/2024-26/03/2024
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)	76.26	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	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
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Kinjal Damor



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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



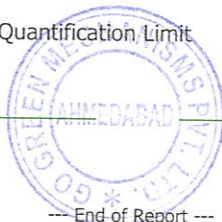
SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/06	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand down stream	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	6.0	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/2614C/06J/V4/07

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/07	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Near Pump House Balaghat	Analysis start- End Date:	16/03/2024-26/03/2024
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)	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/07	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Near Pump House Balaghat	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/08	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Near Kanki Village	Analysis start- End Date:	16/03/2024-26/03/2024
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)	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

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



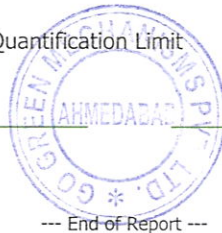
SAMPLE DETAILS

Lab ID:	Lab/PN/2614C/06J/V4/08	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Near Kanki Village	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°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	

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Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 13/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2614C/06J/V4/09A	Kanki Sand Lease Upstream	Day Time	dB(A)Leq	IS 4758	67.1	-
2	Lab/PN/2614C/06J/V4/09B	Kanki Sand Lease Downstream	Day Time	dB(A)Leq	IS 4758	66.9	-
3	Lab/PN/2614C/06J/V4/09C	Nr. Shiv Mandir	Day Time	dB(A)Leq	IS 4758	65.8	-
4	Lab/PN/2614C/06J/V4/09D	Nr. Kanki Village	Day Time	dB(A)Leq	IS 4758	68.2	-
5	Lab/PN/2614C/06J/V4/09A	Kanki Sand up stream	Night Time	dB(A)Leq	IS 4758	59.1	-
6	Lab/PN/2614C/06J/V4/09B	Kanki Sand Lease Downstream	Night Time	dB(A)Leq	IS 4758	57.7	-
7	Lab/PN/2614C/06J/V4/09C	Nr. Shiv Mandir	Night Time	dB(A)Leq	IS 4758	56.6	-
8	Lab/PN/2614C/06J/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



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Manish Kumawat

Page No : 1/1

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Gujarat. INDIA

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

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	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Sand River Bank (GW)	Analysis End Date:	26/03/2024
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
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	165.00	mg/L	APHA 23rd Edn 2340 C	200	600

AI & 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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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ 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



SAMPLE DETAILS

Lab ID: Lab/PN/2613C/06K/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Kanki Sand River Bank (GW)
Sample Quantity: 4.5 L
Sample Condition: 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: GGMP/WI/27A
Packing: Sealed

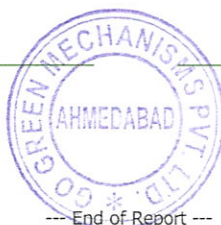
Specification:

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	GGMP/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.71	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & 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 : 2/2

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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



SAMPLE DETAILS

Lab ID: Lab/PN/2616C/06K/V5/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Kanki Sand River Bank
Sample Quantity: 300 ml
Sample Condition: Satisfactory

Sampling Date: 13/03/2024
Sample Receipt Date: 15/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 22/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

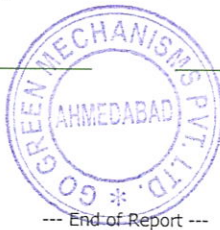
Specification:

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

Nidhi
Analyzed By
Nidhi Shah



Hg
Authorized Signatory
Dr. Haragobinda Srichandan

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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



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:	15/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Sand 500m From River Bank (GW)	Analysis End Date:	26/03/2024
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
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	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

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Dishant Patel



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/02	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	Kanki Sand 500m From River Bank (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

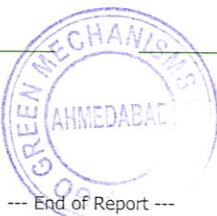
Specification:


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

AI & PL Per IS 10500

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


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Dishant Patel




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CERTIFICATE OF ANALYSIS

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

Reporting Date : 22/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2616C/06K/V5/02	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW Kanki Sand 500m From River Bank	Analysis End Date:	22/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

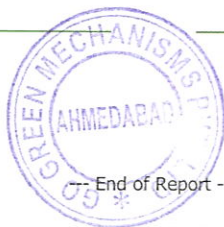
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi Shah

Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2613C/06K/V4/03	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	Garra Village Borewell (GW)	Analysis End Date:	26/03/2024
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
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	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




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2613C/06K/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Garra Village Borewell (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory


Sampling Date: 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

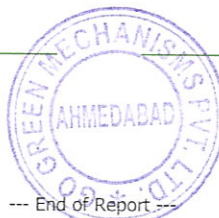
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
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


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Page No : 2/2

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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



SAMPLE DETAILS

Lab ID: Lab/PN/2616C/06K/V5/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Garra Village Borewell
Sample Quantity: 300 ml
Sample Condition: Satisfactory

Sampling Date: 13/03/2024
Sample Receipt Date: 15/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 22/03/2024
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

Nidhi Shah
Analyzed By
Nidhi Shah



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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



SAMPLE DETAILS


Lab ID:	Lab/PN/2613C/06K/V4/04	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	Majapar Village Borewell (GW)	Analysis End Date:	26/03/2024
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
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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Analyzed By
Dishant Patel




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/04	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	16/03/2024
Sample Description:	Majapar Village Borewell (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

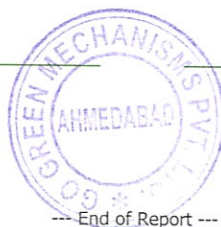
Specification:

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	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



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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/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	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW Majapur Village Borewell	Analysis End Date:	22/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

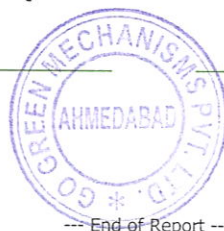
Specification:


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


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Nidhi Shah




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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/05	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand River Bank	Analysis start- End Date:	16/03/2024-26/03/2024
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)	62.23	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

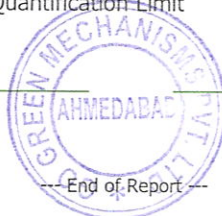
Lab ID:	Lab/PN/2613C/06K/V4/05	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand River Bank	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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



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End of Report



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2613C/06K/V4/06	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki sand 500 m From River Bank	Analysis start- End Date:	16/03/2024-26/03/2024
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)	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



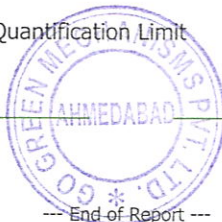
SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/06	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki sand 500 m From River Bank	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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	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

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/07	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Garra Village	Analysis start- End Date:	16/03/2024-26/03/2024
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)	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/07	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Garra Village	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/08	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Majapar Village	Analysis start- End Date:	16/03/2024-26/03/2024
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)	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2613C/06K/V4/08	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Majapar Village	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 13/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2613C/06K/V4/09A	Kanki Sand River	Day Time	dB(A)Leq	IS 4758	66.1	-
2	Lab/PN/2613C/06K/V4/09B	Kanki Sand 500m From river bank	Day Time	dB(A)Leq	IS 4758	67.2	-
3	Lab/PN/2613C/06K/V4/09C	Garra Village	Day Time	dB(A)Leq	IS 4758	65.4	-
4	Lab/PN/2613C/06K/V4/09D	Majapar Village	Day Time	dB(A)Leq	IS 4758	64.9	-
5	Lab/PN/2613C/06K/V4/09A	Kanki Sand River	Night Time	dB(A)Leq	IS 4758	59.1	-
6	Lab/PN/2613C/06K/V4/09B	Kanki Sand 500m From river bank	Night Time	dB(A)Leq	IS 4758	58.2	-
7	Lab/PN/2613C/06K/V4/09C	Garra Village	Night Time	dB(A)Leq	IS 4758	57.6	-
8	Lab/PN/2613C/06K/V4/09D	Majapar Village	Night Time	dB(A)Leq	IS 4758	58.6	-

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

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CERTIFICATE OF ANALYSIS

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

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	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	G.W Kanki sand lease pump house Upstream	Analysis End Date:	22/03/2024
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
1	Alkalinity as CaCO ₃	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	Agreeable	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 SO ₄ 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 CaCO ₃	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

Vinod
Analyzed By
Jadav Vishal



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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:	Lab/PN/2612C/06I/V4/01	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	G.W Kanki sand lease pump house Upstream	Analysis End Date:	22/03/2024
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

Vishal
Analyzed By
Jadav Vishal



--- End of Report ---

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Manish Kumawat

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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



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:	Water	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	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

Nidhi
Analyzed By
Nidhi Shah



H8
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/02	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	G.W Kanki sand lease pump house down stream	Analysis End Date:	22/03/2024
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
1	pH at 25 °C	7.35	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	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
4	Chloride	61.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.39	mg/L	APHA 23rd Edn 4500 F D	1	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 SO ₄ E	200	400
10	Total Dissolved Solids	402.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

Vinhal
Analyzed By
Jadav Vishal



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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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:	Lab/PN/2612C/06I/V4/02	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	G.W Kanki sand lease pump house down stream	Analysis End Date:	22/03/2024
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
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	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	1.39	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

Vishal
Analyzed By
Jadav Vishal



--- End of Report ---

Manish
Authorized Signatory
Manish Kumawat

Page No : 2/2

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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



SAMPLE DETAILS

Lab ID: Lab/PN/2615C/06I/V5/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Kanki Sand Lease Pump House Downstream

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: 300 ml
Sample Condition: 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

Nidhi
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/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	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	G.W Balaghat MC Pump House	Analysis End Date:	22/03/2024
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
1	pH at 25 °C	7.41	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	156.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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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/V4/03

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	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	G.W Balaghat MC Pump House	Analysis End Date:	22/03/2024
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	1.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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Jadav Vishal



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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
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: 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: 300 ml
Sample Condition: 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


Analyzed By
Nidhi Shah




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/04

Reporting Date : 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/04	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	Borewell water Agriculture land (GW)	Analysis End Date:	22/03/2024
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
1	pH at 25 °C	7.16	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	386.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	176.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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Vishal
Analyzed By
Jadav Vishal



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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



SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/04	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Ground Water	Analysis Start Date:	15/03/2024
Sample Description:	Borewell water Agriculture land (GW)	Analysis End Date:	22/03/2024
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	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

AL & PL As Per IS 10500.

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

Vimal
Analyzed By
Jadav Vishal



Manish
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2615C/06I/V5/04

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/V5/04	Sampling Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	15/03/2024
Sample Type:	Water	Analysis Start Date:	01/01/0001
Sample Description:	GW Borewell Water Agriculture Land	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	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

Nidhi
Analyzed By
Nidhi Shah



H8
Authorized Signatory
Dr. Haragobinda Srichandan

--- 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:	Lab/PN/2612C/06I/V4/05	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand lease pump house upstream	Analysis start- End Date:	15/03/2024-22/03/2024
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)	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
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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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2612C/06I/V4/05

Reporting Date: 23/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/05	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand lease pump house upstream	Analysis start- End Date:	15/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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/V4/06

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:	Lab/PN/2612C/06I/V4/06	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand lease pump house Down stream	Analysis start- End Date:	15/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.95	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 23/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/06	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Kanki Sand lease pump house Down stream	Analysis start- End Date:	15/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2612C/06I/V4/07

Reporting Date: 23/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/07	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	500M Away from shiv Mandir	Analysis start- End Date:	15/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.03	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	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

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Report Number : GGMPL/PN/2612C/06I/V4/07

Reporting Date: 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/07	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	500M Away from shiv Mandir	Analysis start- End Date:	15/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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

Reporting Date: 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/08	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Balaghat MC Pump house	Analysis start- End Date:	15/03/2024-22/03/2024
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)	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

Analyzed By
Jadav Vishal



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2612C/06I/V4/08

Reporting Date: 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2612C/06I/V4/08	Sampling Start Date:	13/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	14/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	15/03/2024
Sample Description:	Balaghat MC Pump house	Analysis start- End Date:	15/03/2024-22/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 \pm 5 $^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	$^{\circ}$ 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	μ g/m3	USEPA Method IO 3.4	1
16	Wind Speed	6	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2612C/06I/V4/09

Reporting Date: 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 13/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2612C/06I/V4/09/A	Kanki Sand lease pump house upstream	Day Time	dB(A)Leq	IS 4758	65.4	-
2	Lab/PN/2612C/06I/V4/09/B	Kanki Sand lease pump house down stream	Day Time	dB(A)Leq	IS 4758	66.9	-
3	Lab/PN/2612C/06I/V4/09/C	500M Away from Shiv Mandir	Day Time	dB(A)Leq	IS 4758	64.3	-
4	Lab/PN/2612C/06I/V4/09/D	Balaghat MC Pump house	Day Time	dB(A)Leq	IS 4758	64.3	-
5	Lab/PN/2612C/06I/V4/09/A	Kanki Sand lease pump house upstream	Night Time	dB(A)Leq	IS 4758	58.1	-
6	Lab/PN/2612C/06I/V4/09/B	Kanki Sand lease pump house down stream	Night Time	dB(A)Leq	IS 4758	57.6	-
7	Lab/PN/2612C/06I/V4/09/C	500M Away from Shiv Mandir	Night Time	dB(A)Leq	IS 4758	56.7	-
8	Lab/PN/2612C/06I/V4/09/D	Balaghat MC Pump house	Night Time	dB(A)Leq	IS 4758	57.8	-

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