

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/972D/06D/01

Reporting Date : 06/07/2024

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/972D/06D/01	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Water Tank Under Ground Source	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	145.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	45.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.42	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	35.32	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	266.00	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 <sub>3</sub>	145.0000	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/01	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Water Tank Under Ground Source	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/W1/27A
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	4.27	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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Khushbu Suthar



--- End of Report ---

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/972D/06D/02

Reporting Date : 06/07/2024

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/972D/06D/02	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W DW-of Admin Office	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	105.00	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	64.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.65	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.59	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.95	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.83	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> 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 <sub>3</sub>	235.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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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 : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/02	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W DW-of Admin Office	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.20	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

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--- End of Report ---

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Page No : 2/2

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M/s Moil Limited

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

Reporting Date : 06/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/03	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Hospital Borewell	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	135.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	56.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	94.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.24	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.45	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	42.70	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	336.00	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 <sub>3</sub>	250.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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Balaghat Dist. Balaghat 481102 (M.P)



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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Hospital Borewell	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

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--- End of Report ---

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Reporting Date : 06/07/2024

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Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/04	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	D.W of Office Colony (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	66.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.86	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.9	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	35.32	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	308.00	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

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Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/04	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	D.W of Office Colony (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	185.00	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	5.05	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> 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/972D/06D/05

Reporting Date: 06/07/2024

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/972D/06D/05	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	29/06/2024-05/07/2024
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)	67.49	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)	10.74	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.84	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.73	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.40	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.02	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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/972D/06D/05

Reporting Date: 06/07/2024

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/972D/06D/05	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	29/06/2024-05/07/2024
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	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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*Khushbu*

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*Manish*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/972D/06D/06

Reporting Date: 06/07/2024

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/972D/06D/06	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Main Gate	Analysis start- End Date:	29/06/2024-05/07/2024
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)	70.92	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.50	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.01	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.15	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	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

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Report Number : GGMPL/PN/972D/06D/06

Reporting Date: 06/07/2024

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/972D/06D/06	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Main Gate	Analysis start- End Date:	29/06/2024-05/07/2024
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	61	%	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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Khushbu Suthar



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Authorized Signatory  
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## CERTIFICATE OF ANALYSIS

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Reporting Date: 06/07/2024

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Balaghat Dist. Balaghat 481102 (M.P)

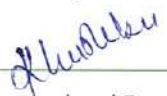


### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/07	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Sixth Level	Analysis start- End Date:	29/06/2024-05/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.42	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	14.51	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	24.76	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	12.68	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	11.20	µg/m <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.02	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	USEPA Method IO 3.4	6

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Manish Kumawat

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Report Number : GGMPL/PN/972D/06D/07

Reporting Date: 06/07/2024

M/s Moil Limited

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

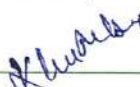


### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/07	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Sixth Level	Analysis start- End Date:	29/06/2024-05/07/2024
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	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Khushbu Suthar



--- End of Report ---

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/972D/06D/08

Reporting Date: 06/07/2024

M/s Moil Limited

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



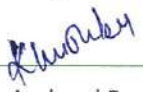
TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/08	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Hospital	Analysis start- End Date:	29/06/2024-05/07/2024
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)	63.12	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	16.69	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	25.22	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	10.46	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	15.40	µg/m <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.30	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	USEPA Method IO 3.4	6

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Reporting Date: 06/07/2024

M/s Moil Limited

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

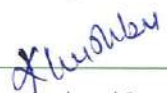


### SAMPLE DETAILS

Lab ID:	Lab/PN/972D/06D/08	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Hospital	Analysis start- End Date:	29/06/2024-05/07/2024
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	60	%	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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/972D/06D/09

Reporting Date: 06/07/2024

M/s Moil Limited

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



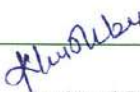
### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sampling By : Laboratory Representative

Sampling Date: 27/06/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/972D/06 D/09A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	61.2	-
2	Lab/PN/972D/06 D/09B	Near Main Gate	Day Time	dB(A)Leq	IS 4758	64.6	-
3	Lab/PN/972D/06 D/09C	Near sixth Level	Day Time	dB(A)Leq	IS 4758	67.9	-
4	Lab/PN/972D/06 D/09D	Near Hospital	Day Time	dB(A)Leq	IS 4758	59.8	-

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

  
Analyzed By  
Khushbu Suthar



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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/973D/06D/01

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/973D/06D/01	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Water tank under Ground Source	Analysis End Date:	06/07/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

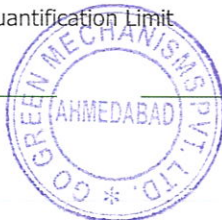
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*Haragobinda*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/973D/06D/02

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 : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/973D/06D/02	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Drinking Water of Admin Office	Analysis End Date:	06/07/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

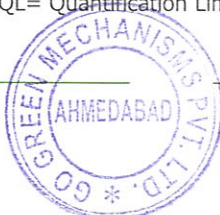
Specification:

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



*Haragobinda*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/973D/06D/03

M/s Moil Limited

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

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 06/07/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/973D/06D/03	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Hospital Borewell	Analysis End Date:	06/07/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

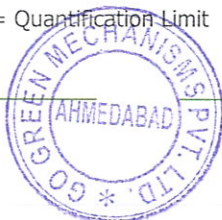
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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/973D/06D/04

Reporting Date : 06/07/2024

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/973D/06D/04	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Drinking Water of Office Colony	Analysis End Date:	06/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	per 100ml	APHA 9222H 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



*148*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/974D/06E/01

Reporting Date : 09/07/2024

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/974D/06E/01	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Adarsh Colony Water Supply (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	173.00	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	59.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL-1)	CU	IS 3025 Part 4	5	15
5	Fluoride	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.89	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	39.55	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	334.00	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 <sub>3</sub>	188.00	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish*  
Authorized Signatory  
Manish Kumawat

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Report Number: GGMPL/PN/974D/06E/01

Reporting Date : 09/07/2024

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/974D/06E/01	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Adarsh Colony Water Supply (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.62	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/974D/06E/02

Reporting Date: 09/07/2024

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/974D/06E/02	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Adarsh Colony	Analysis start- End Date:	01/07/2024-08/07/2024
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)	63.34	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	16.99	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	22.01	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	12.37	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	18.20	µg/Nm <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/974D/06E/02

Reporting Date: 09/07/2024

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/974D/06E/02	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Near Adarsh Colony	Analysis start- End Date:	01/07/2024-08/07/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	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	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Analyzed By  
Khushbu Suthar



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/974D/06E/03

Reporting Date: 09/07/2024

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/974D/06E/03	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Bharweli Village	Analysis start- End Date:	01/07/2024-08/07/2024
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)	68.78	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	13.67	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	19.42	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	15.22	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	21.00	µg/Nm <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	USEPA Method IO 3.4	6

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

*[Signature]*  
Analyzed By  
Khushbu Suthar



*[Signature]*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/974D/06E/03

Reporting Date: 09/07/2024

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/974D/06E/03	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Bharweli Village	Analysis start- End Date:	01/07/2024-08/07/2024
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	29	°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	3.00	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Khushbu*

Analyzed By  
Khushbu Suthar



--- End of Report ---

*Manish*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/974D/06E/04

Reporting Date: 09/07/2024

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: 27/06/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/974D/06 E/04A	Adarsh Village	Day Time	dB(A)Leq	IS 4758	62.4	-
2	Lab/PN/974D/06 E/04B	Bharweli Village	Day Time	dB(A)Leq	IS 4758	65.9	-

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

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Khushbu Suthar



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/975D/06E/01

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/975D/06E/01	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Adarsh Colony Water Supply (GW)	Analysis End Date:	06/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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 ---

*HB*

Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/976D/06F/01

Reporting Date : 10/07/2024

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

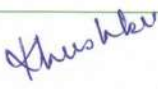
Lab ID:	Lab/PN/976D/06F/01	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Awalajare Village (GW)	Analysis End Date:	09/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	134.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.87	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	0.65	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.71	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	32.47	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	274.00	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 <sub>3</sub>	174.00	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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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/976D/06F/02

Reporting Date : 10/07/2024

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/976D/06F/02	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Shivani Camp Borewell (GW)	Analysis End Date:	09/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	59.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.08	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	6.5-8.5	No relaxation
9	Sulphate	38.96	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	296.00	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 <sub>3</sub>	196.00	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

*Khushbu*

Analyzed By  
Khushbu Suthar



*Manish*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/976D/06F/02

M/s Moil Limited

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

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 10/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/976D/06F/02	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Shivani Camp Borewell (GW)	Analysis End Date:	09/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

*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/976D/06F/03

M/s Moil Limited

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

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 10/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/976D/06F/03	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Katangtolla Ward No.3 Borewell(GW)	Analysis End Date:	09/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	112.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	58.98	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	20.41	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.15	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	45.26	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	316.00	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 <sub>3</sub>	196.00	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

*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/976D/06F/03

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 10/07/2024



### SAMPLE DETAILS

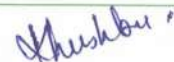
Lab ID:	Lab/PN/976D/06F/03	Sampling Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Katangtolla Ward No.3 Borewell(GW)	Analysis End Date:	09/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.15	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

  
Analyzed By  
Khushbu Suthar



--- End of Report ---

  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/976D/06F/04

Reporting Date: 10/07/2024

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/976D/06F/04	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Awalajare Village	Analysis start- End Date:	01/07/2024-09/07/2024
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)	62.15	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)	14.43	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	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

*Khushbu*

Analyzed By  
Khushbu Suthar



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/976D/06F/05

Reporting Date: 10/07/2024

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/976D/06F/05	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Shivni Camp	Analysis start- End Date:	01/07/2024-09/07/2024
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)	66.41	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)	16.98	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.41	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.85	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Khushbu Suthar



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/976D/06F/06

Reporting Date: 10/07/2024

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/976D/06F/06	Sampling Start Date:	27/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/06/2024
Sample Description:	Katangtolla Ward No.3	Analysis start- End Date:	01/07/2024-09/07/2024
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)	59.22	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)	12.17	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.40	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By  
Khushbu Suthar



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/976D/06F/07

Reporting Date: 10/07/2024

M/s Moil Limited

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

Balaghat Dist. Balaghat 481102 (M.P)



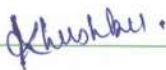
### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 27/06/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/976D/06 F/07A	Awalajare Village	Day Time	dB(A)Leq	IS 4758	57.7	-
2	Lab/PN/976D/06 F/07B	Shivani Camp	Day Time	dB(A)Leq	IS 4758	62.3	-
3	Lab/PN/976D/06 F/07C	Kantangtolla Ward No.03	Day Time	dB(A)Leq	IS 4758	66.2	-

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

  
Analyzed By  
Khushbu Suthar



--- End of Report ---

  
Authorized Signatory  
Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1031D/06G/01

M/s Moil Limited

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

Reporting Date : 09/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/1031D/06G/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	132 KV Pump House(GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	110.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	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	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.63	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.25	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.73	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	250.00	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 <sub>3</sub>	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

*Priyanka*

Analyzed By  
Priyanka Shrimali



*Manish*

Authorized Signatory  
Manish Kumawat

Page No : 1/2

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Reporting Date : 09/07/2024

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/1031D/06G/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	132 KV Pump House(GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.85	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

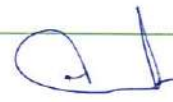
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By  
Priyanka Shrimali



--- End of Report ---



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1031D/06G/02

Reporting Date : 09/07/2024

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/1031D/06G/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Wainganga River Water supply(GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

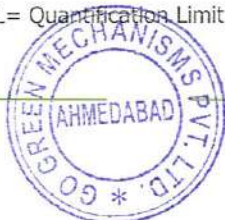
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	175.00	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	42.48	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	10.93	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.38	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.97	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	270.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1031D/06G/02

Reporting Date : 09/07/2024

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/1031D/06G/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Wainganga River Water supply(GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.5	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	1.85	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

*Priyanka*  
Analyzed By  
Priyanka Shrimali



*Manish*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1031D/06G/03

Reporting Date : 09/07/2024

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/1031D/06G/03	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Borewell water (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	145.00	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	52.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.08	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	32.96	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	300.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	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

*Priyanka*

Analyzed By  
Priyanka Shrimali



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1031D/06G/03

Reporting Date : 09/07/2024

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/1031D/06G/03	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Borewell water (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.80	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	2.14	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

*Priyanka*

Analyzed By  
Priyanka Shrimali



--- End of Report ---

*Manish*

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1031D/06G/04

Reporting Date : 09/07/2024

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/1031D/06G/04	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Waste Water	Analysis Start Date:	01/07/2024
Sample Description:	Sine Pond Overflow Water(WW)	Analysis End Date:	08/07/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.85	-	IS 3025- Part 11	-
2	Total Suspended Solids	34.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	20	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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



Analyzed By  
Priyanka Shrimali



--- End of Report ---



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1031D/06G/05

Reporting Date: 09/07/2024

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/1031D/06G/05	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Nr crusher 1&2 Nr Cycle Stand	Analysis start- End Date:	01/07/2024-08/07/2024
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)	68.96	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)	12.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	14.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.41	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.40	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Priyanka Shrimali



  
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Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1031D/06G/05

Reporting Date: 09/07/2024

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/1031D/06G/05	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Nr crusher 1&2 Nr Cycle Stand	Analysis start- End Date:	01/07/2024-08/07/2024
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	35	°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	3.3	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/1031D/06G/06

Reporting Date: 09/07/2024

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/1031D/06G/06	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Beside De-Winding area	Analysis start- End Date:	01/07/2024-08/07/2024
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)	64.85	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)	13.02	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.93	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1031D/06G/06

Reporting Date: 09/07/2024

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/1031D/06G/06	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Beside De-Winding area	Analysis start- End Date:	01/07/2024-08/07/2024
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	35	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	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	3.3	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/1031D/06G/07

Reporting Date: 09/07/2024

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/1031D/06G/07	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Nr Product Bunker	Analysis start- End Date:	01/07/2024-08/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.38	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	9.01	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	14.56	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	10.15	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	12.23	µg/Nm <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	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/1031D/06G/07

Reporting Date: 09/07/2024

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/1031D/06G/07	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Nr Product Bunker	Analysis start- End Date:	01/07/2024-08/07/2024
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	35	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	USEPA Method IO 3.4	1
16	Wind Speed	3.3	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/1031D/06G/08

Reporting Date: 09/07/2024

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/1031D/06G/08	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Nr Mechanical room	Analysis start- End Date:	01/07/2024-08/07/2024
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)	63.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.57	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.64	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.32	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.40	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1031D/06G/08

Reporting Date: 09/07/2024

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/1031D/06G/08	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Nr Mechanical room	Analysis start- End Date:	01/07/2024-08/07/2024
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	35	°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/m <sup>3</sup>	USEPA Method IO 3.4	1
16	Wind Speed	3.3	m/s	GGMPL/SOP/MP/01:2020	NS

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*Priyanka Shrimali*

Analyzed By  
Priyanka Shrimali



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1031D/06G/09

Reporting Date: 09/07/2024

M/s Moil Limited

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



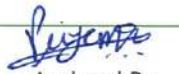
### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 28/06/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1031D/06G/09A	Near Crusher 1 & 2 Near Cycle stand	Day Time	dB(A)Leq	IS 4758	71.2	-
2	Lab/PN/1031D/06G/09B	Beside De-Winding area	Day Time	dB(A)Leq	IS 4758	69.9	-
3	Lab/PN/1031D/06G/09C	Near Product Bunker	Day Time	dB(A)Leq	IS 4758	72.3	-
4	Lab/PN/1031D/06G/09D	Near Mechanical Room	Day Time	dB(A)Leq	IS 4758	68.9	-

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

  
Analyzed By  
Priyanka Shrimali



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1032D/06G/01

Reporting Date : 08/07/2024

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/1032D/06G/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	132 KV Pump house GW	Analysis End Date:	08/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*Haragobinda*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1032D/06G/02

Reporting Date : 08/07/2024

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/1032D/06G/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Wain Ganga River water Supply GW	Analysis End Date:	08/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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



*HS*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1032D/06G/03

Reporting Date : 08/07/2024

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/1032D/06G/03	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Borewell water G.W.	Analysis End Date:	08/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033D/06G/01

M/s Moil Limited

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

Reporting Date : 09/07/2024



### SAMPLE DETAILS

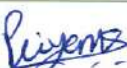
Lab ID:	Lab/PN/1033D/06G/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	GW Ferro Manganese plant Open dugwell	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.06	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	0.22	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.87	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	6.5-8.5	No relaxation
9	Sulphate	20.56	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	236.00	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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Priyanka Shrimali



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033D/06G/01

M/s Moil Limited

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

Balaghat 481102 (M.P)

Reporting Date : 09/07/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/1033D/06G/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	GW Ferro Manganese plant Open dugwell	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	138.00	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	2.85	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> 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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033D/06G/02

Reporting Date : 09/07/2024

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/1033D/06G/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Waste Water	Analysis Start Date:	01/07/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	08/07/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.36	-	IS 3025- Part 11	-
2	Total Suspended Solids	20.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	72.00	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	23	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.24	mg/L	APHA 23rd Edn 3120 B	-

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

  
Analyzed By  
Priyanka Shrimali



--- End of Report ---

  
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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033D/06G/03

Reporting Date : 09/07/2024

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/1033D/06G/03	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Waste Water	Analysis Start Date:	01/07/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	08/07/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	-	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	52.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	18	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.15	mg/L	APHA 23rd Edn 3120 B	-

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

  
Analyzed By  
Priyanka Shrimali



  
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Manish Kumawat

--- End of Report ---

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033D/06G/04

Reporting Date : 09/07/2024

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/1033D/06G/04	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	GW Guest House water Supply	Analysis End Date:	08/07/2024
Sample Quantity:	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 <sub>3</sub>	135.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	51.30	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	58.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.84	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	13.85	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.12	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> 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 <sub>3</sub>	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

  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033D/06G/04

Reporting Date : 09/07/2024

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/1033D/06G/04	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	GW Guest House water Supply	Analysis End Date:	08/07/2024
Sample Quantity:	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	2.48	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1033D/06G/05

Reporting Date: 09/07/2024

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/1033D/06G/05	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Main Gate	Analysis start- End Date:	01/07/2024-08/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.56	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.02	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.97	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.40	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1033D/06G/05

Reporting Date: 09/07/2024

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/1033D/06G/05	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Main Gate	Analysis start- End Date:	01/07/2024-08/07/2024
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	34	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.2	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/1033D/06G/06

Reporting Date: 09/07/2024

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/1033D/06G/06	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Mine office	Analysis start- End Date:	01/07/2024-08/07/2024
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)	67.99	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.83	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.20	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.41	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.60	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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Priyanka Shrimali



  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1033D/06G/06

Reporting Date: 09/07/2024

M/s Moil Limited

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

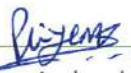


### SAMPLE DETAILS

Lab ID:	Lab/PN/1033D/06G/06	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Mine office	Analysis start- End Date:	01/07/2024-08/07/2024
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	34	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Priyanka Shrimali



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1033D/06G/07

Reporting Date: 09/07/2024

M/s Moil Limited

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




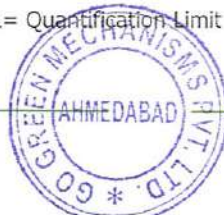
### SAMPLE DETAILS

Lab ID:	Lab/PN/1033D/06G/07	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Pump House	Analysis start- End Date:	01/07/2024-08/07/2024
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)	66.14	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m <sup>3</sup>	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	15.97	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	22.72	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	10.78	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	14.00	µg/Nm <sup>3</sup>	GGMP/L/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	USEPA Method IO 3.4	6

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1033D/06G/07

Reporting Date: 09/07/2024

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/1033D/06G/07	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Pump House	Analysis start- End Date:	01/07/2024-08/07/2024
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	34	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Priyanka Shrimali



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1033D/06G/08

Reporting Date: 09/07/2024

M/s Moil Limited

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



TC-7073

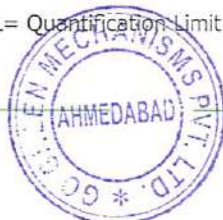
### SAMPLE DETAILS

Lab ID:	Lab/PN/1033D/06G/08	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Furnace	Analysis start- End Date:	01/07/2024-08/07/2024
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)	64.26	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)	12.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.80	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)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1033D/06G/08

Reporting Date: 09/07/2024

M/s Moil Limited

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

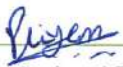


### SAMPLE DETAILS

Lab ID:	Lab/PN/1033D/06G/08	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Furnace	Analysis start- End Date:	01/07/2024-08/07/2024
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	34	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Priyanka Shrimali



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Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1033D/06G/09

Reporting Date: 09/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 28/06/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1033D/06G/09A	Near Main Gate	Day Time	dB(A)Leq	IS 4758	69.8	-
2	Lab/PN/1033D/06G/09B	Near Mine Office	Day Time	dB(A)Leq	IS 4758	68.9	-
3	Lab/PN/1033D/06G/09C	Near Pump House	Day Time	dB(A)Leq	IS 4758	72.8	-
4	Lab/PN/1033D/06G/09D	Near Furnace	Day Time	dB(A)Leq	IS 4758	72.1	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1034D/06GG/01

Reporting Date : 08/07/2024

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/1034D/06GG/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	GW Ferro Manganese plant Open dug well	Analysis End Date:	08/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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 ---

*Hg*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1034D/06GG/02

Reporting Date : 08/07/2024

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/1034D/06GG/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	GW Guest House water supply	Analysis End Date:	08/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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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Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1035D/06H/01

M/s Moil Limited

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

Reporting Date : 09/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/1035D/06H/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Near Office Side Borewell (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	125.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	46.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	42.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.75	mg/L	APHA 23rd Edn 4500 F D	1.0	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	7.45	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.50	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	274.0	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 <sub>3</sub>	196.00	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1035D/06H/01

Reporting Date : 09/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS


Lab ID:	Lab/PN/1035D/06H/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Near Office Side Borewell (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.48	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

  
Analyzed By  
Khushbu Suthar



--- End of Report ---

  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1035D/06H/02

Reporting Date : 09/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

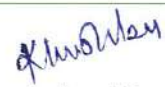
Lab ID:	Lab/PN/1035D/06H/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	133.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	45.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	35.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	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	7.56	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.53	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> 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 <sub>3</sub>	194.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1035D/06H/02

Reporting Date : 09/07/2024

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/1035D/06H/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Water	Analysis Start Date:	01/07/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.78	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By  
Khushbu Suthar



Authorized Signatory  
Manish Kumawat

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1035D/06H/03

Reporting Date: 09/07/2024

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/1035D/06H/03	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Private Office Site	Analysis start- End Date:	01/07/2024-08/07/2024
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)	67.45	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)	16.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.63	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.17	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.00	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Khushbu*

Analyzed By  
Khushbu Suthar



*Manish*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1035D/06H/03

Reporting Date: 09/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1035D/06H/03	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Private Office Site	Analysis start- End Date:	01/07/2024-08/07/2024
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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Khushbu*  
Analyzed By  
Khushbu Suthar



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1035D/06H/04

Reporting Date: 09/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1035D/06H/04	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	01/07/2024-08/07/2024
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)	70.55	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	14.22	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	26.63	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	16.17	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	18.20	µg/m <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	USEPA Method IO 3.4	6

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

*Khushbu*

Analyzed By  
Khushbu Suthar



*Manish*

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Manish Kumawat

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Reporting Date: 09/07/2024

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/1035D/06H/04	Sampling Start Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/06/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	01/07/2024-08/07/2024
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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Khushbu Suthar



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1035D/06H/05

Reporting Date: 09/07/2024

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

Sampling Date: 28/06/2024

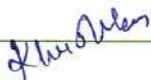
Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1035D/06H/05A	Near Private Office Site	Day Time	dB(A)Leq	IS 4758	69.5	-
2	Lab/PN/1035D/06H/05B	Near weigh bridge	Day Time	dB(A)Leq	IS 4758	72.5	-

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

  
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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPI/PN/1036D/06H/01

M/s Moil Limited

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

Reporting Date : 08/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/1036D/06H/01	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Near Office Side Borewell (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Parking:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AI	PI
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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

--- End of Report ---

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  
Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1036D/06H/02

Reporting Date : 08/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/1036D/06H/02	Sampling Date:	28/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/06/2024
Sample Type:	Ground Water	Analysis Start Date:	01/07/2024
Sample Description:	Railway Siding Water Supply (GW)	Analysis End Date:	08/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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

--- End of Report ---

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931D/06I/01

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/931D/06I/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Kanki sand lease pump house Upstream	Analysis End Date:	05/07/2024
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 <sub>3</sub>	180.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	41.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	72.98	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	25.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.35	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.57	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> 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
12	Total Hardness as CaCO <sub>3</sub>	208.00	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  
Aarmi Patel



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931D/06I/01

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/931D/06I/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Kanki sand lease pump house Upstream	Analysis End Date:	05/07/2024
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	1.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

Analyzed By  
Aarmi Patel



Authorized Signatory  
Manish Kumawat

--- End of Report ---

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/931D/06I/02

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/931D/06I/02	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Kanki sand lease pump house down stream	Analysis End Date:	05/07/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

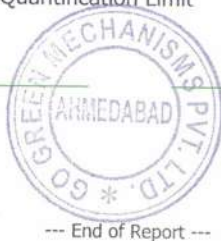
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	197.00	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	1.29	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  
Aarmi Patel



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931D/06I/03

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/931D/06I/03  
Sample Drawn By: Laboratory Representative  
Sample Type: Ground Water  
Sample Description: G.W Balaghat MC Pump House  
Sample Quantity: 4.5 L  
Sample Condition: Satisfactory


Sampling Date: 26/06/2024  
Sample Receipt Date: 28/06/2024  
Analysis Start Date: 29/06/2024  
Analysis End Date: 05/07/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	160.00	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	78.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.00	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.12	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.16	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> 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
12	Total Hardness as CaCO <sub>3</sub>	212.00	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  
Aarmi Patel



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931D/06I/03

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/931D/06I/03	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	G.W Balaghat MC Pump House	Analysis End Date:	05/07/2024
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	1.16	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL AS Per IS 10500

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

  
Analyzed By  
Aarmi Patel



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931D/06I/04

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/931D/06I/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Borewell water Agriculture land (GW)	Analysis End Date:	05/07/2024
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 <sub>3</sub>	185.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	82.97	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	24.79	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.50	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	372.00	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 <sub>3</sub>	220.00	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  
Aarmi Patel



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931D/06I/04

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/931D/06I/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Borewell water Agriculture land (GW)	Analysis End Date:	05/07/2024
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	0.72	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

*AB Patel*

Analyzed By  
Aarmi Patel



--- End of Report ---

*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/931D/06I/05

M/s Moil Limited

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

Reporting Date: 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/931D/06I/05	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki Sand lease pump house upstream	Analysis start- End Date:	29/06/2024-05/07/2024
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)	66.22	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.71	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.10	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.60	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)	1.03	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

*AB Patel*  
Analyzed By  
Aarmi Patel



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/931D/06I/05

M/s Moil Limited

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

Reporting Date: 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/931D/06I/05	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki Sand lease pump house upstream	Analysis start- End Date:	29/06/2024-05/07/2024
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	52	%	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	2.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

*AB Patel*  
Analyzed By  
Aarmi Patel



--- End of Report ---

*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/931D/06I/06

M/s Moil Limited

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

Reporting Date: 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/931D/06I/06	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki Sand lease pump house Down stream	Analysis start- End Date:	29/06/2024-05/07/2024
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)	63.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.69	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.01	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)	0.93	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  
Aarmi Patel



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/931D/06I/06

M/s Moil Limited

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

Reporting Date: 06/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/931D/06I/06

Laboratory Representative

Ambient Air

Kanki Sand lease pump house Down stream

Ambient Temperature

Satisfactory

Sampling Start Date:

26/06/2024

Sampling End Date:

27/06/2024

Sample Receipt Date:

28/06/2024

Analysis start- End Date:

29/06/2024-05/07/2024

Total Sampling hours:

24

Env. Cond.-Testing:

 $25 \pm 5^{\circ}\text{C}$ [illegible]

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

Analyzed By  
Aarmi Patel



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/931D/06I/09

Reporting Date: 06/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

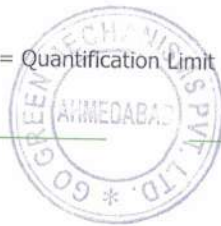
Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 26/06/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/931D/06 I/09A	Kanki Sand Lease Pump House Up Stream	Day Time	dB(A)Leq	IS 4758	68.9	-
2	Lab/PN/931D/06 I/09B	Kanki Sand Lease Pump House Down stream	Day Time	dB(A)Leq	IS 4758	67.2	-
3	Lab/PN/931D/06 I/09C	500M Away From Shiv mandir	Day Time	dB(A)Leq	IS 4758	64.9	-
4	Lab/PN/931D/06 I/09D	Balaghat MC Pump House	Day Time	dB(A)Leq	IS 4758	69.1	-

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

Analyzed By  
Aarmi Patel



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Manish Kumawat

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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/932D/06I/01

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/932D/06I/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki sand lease pump house Upstream	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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 ---

*H8*

Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/932D/06I/04

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/932D/06I/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Borewell water Agriculture land (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

  
Analyzed By  
Nidhi Shah



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Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/933D/06K/01

M/s Moil Limited

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

Reporting Date : 08/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki Sand River Bank (GW)	Analysis End Date:	06/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMP/L/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	134.00	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	59.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.58	mg/L	APHA 23rd Edn 4500 F D	1.0	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	7.19	-	IS 3025- Part 11	6.5 8.5	No relaxation
9	Sulphate	10.60	mg/L	APHA 23rd Edn 4500 SU4 E	200	400
10	Total Dissolved Solids (TDS)	296.00	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 <sub>3</sub>	168.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By  
Khushbu Suthar



Authorized Signatory  
Tantan Kumar

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/933D/06K/01

M/s Moil Limited

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

Reporting Date : 08/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/933D/06K/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Kanki Sand River Bank (GW)  
Sample Quantity: 3 L  
Sample Condition: Satisfactory

Sampling Date: 26/06/2024  
Sample Receipt Date: 28/06/2024  
Analysis Start Date: 29/06/2024  
Analysis End Date: 06/07/2024  
Sampling Method: GGMP/L/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.3	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	1.41	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

*Khushbu*  
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Khushbu Suthar



--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933D/06K/02

M/s Moil Limited

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

Reporting Date : 08/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/02	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki sand 500 m from river bank(GW)	Analysis End Date:	06/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	29.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.69	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	29.61	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> 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 <sub>3</sub>	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

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Khushbu Suthar



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Tantan Kumar

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/933D/06K/02

M/s Moil Limited

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

Reporting Date : 08/07/2024



### SAMPLE DETAILS

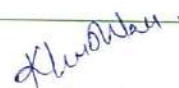
Lab ID:	Lab/PN/933D/06K/02	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki sand 500 m from river bank(GW)	Analysis End Date:	06/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

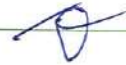
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.5	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.14	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

  
Analyzed By  
Khushbu Suthar



  
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Tantan Kumar

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933D/06K/03

M/s Moil Limited

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

Reporting Date : 08/07/2024



### SAMPLE DETAILS

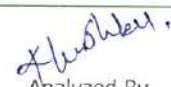
Lab ID:	Lab/PN/933D/06K/03	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Water	Analysis Start Date:	29/06/2024
Sample Description:	Garra village borewell (GW)	Analysis End Date:	06/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PI
1	Alkalinity as CaCO <sub>3</sub>	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	33.66	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	0.38	mg/L	APHA 23rd Edn 4500 F D	1.0	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	7.34	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.48	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	248.00	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 <sub>3</sub>	138.00	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/933D/06K/03

M/s Moil Limited

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

Reporting Date : 08/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/03	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Water	Analysis Start Date:	29/06/2024
Sample Description:	Garra village borewell (GW)	Analysis End Date:	06/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.96	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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Khushbu Suthar



*Tantankumar*  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/933D/06K/04

M/s Moil Limited

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

Reporting Date : 08/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Water	Analysis Start Date:	29/06/2024
Sample Description:	Majapur village borewell (GW)	Analysis End Date:	06/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	134.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	37.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	58.98	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	15.06	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	36.50	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	282.00	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 <sub>3</sub>	156.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By  
Khushbu Suthar



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Tantan Kumar

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/933D/06K/04

M/s Moil Limited

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

Reporting Date : 08/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/933D/06K/04  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Majapur village borewell (GW)  
Sample Quantity: 3 L  
Sample Condition: Satisfactory

Sampling Date: 26/06/2024  
Sample Receipt Date: 28/06/2024  
Analysis Start Date: 29/06/2024  
Analysis End Date: 06/07/2024  
Sampling Method: GGMP/L/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.75	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	1.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933D/06K/05

Reporting Date: 08/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/05	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki sand river bank	Analysis start- End Date:	29/06/2024-06/07/2024
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)	68.72	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	17.89	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	25.63	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	14.273	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	8.40	µg/Nm <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.16	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	USEPA Method IO 3.4	6

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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*T*  
Authorized Signatory  
Tantan Kumar

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933D/06K/05

Reporting Date: 08/07/2024

M/s Moil Limited

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

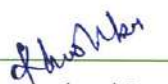


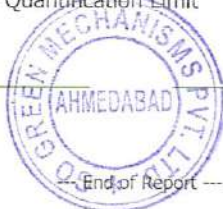
### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/05	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki sand river bank	Analysis start- End Date:	29/06/2024-06/07/2024
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	53	%	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	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Khushbu Suthar



  
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Tantan Kumar

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933D/06K/06

Reporting Date: 08/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/06	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki sand 500 m from river bank	Analysis start- End Date:	29/06/2024-06/07/2024
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)	62.28	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)	14.84	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.00	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Khushbu*

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*Tantankumar*

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Report Number : GGMPL/PN/933D/06K/06

Reporting Date: 08/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/06	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki sand 500 m from river bank	Analysis start- End Date:	29/06/2024-06/07/2024
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	53	%	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	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Khushbu*

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*Tantan*

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933D/06K/07

Reporting Date: 08/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/07	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Garra village borewell	Analysis start- End Date:	29/06/2024-06/07/2024
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)	64.43	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m <sup>3</sup>	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO <sub>2</sub> )	18.34	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO <sub>2</sub> )	27.09	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	14.59	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	12.60	µg/Nm <sup>3</sup>	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	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/933D/06K/07

Reporting Date: 08/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/07	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Garra village borewell	Analysis start- End Date:	29/06/2024-06/07/2024
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	53	%	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	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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

*[Signature]*

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--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933D/06K/08

Reporting Date: 08/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/08	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Majapur village borewell	Analysis start- End Date:	29/06/2024-06/07/2024
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)	67.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.81	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/933D/06K/08

Reporting Date: 08/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/933D/06K/08	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Majapur village borewell	Analysis start- End Date:	29/06/2024-06/07/2024
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	53	%	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	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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/933D/06K/09

Reporting Date: 08/07/2024

M/s Moil Limited

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



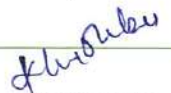
### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 26/06/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/933D/06 K/09A	Kanki Sand River Bank	Day Time	dB(A)Leq	IS 4758	64.1	-
2	Lab/PN/933D/06 K/09B	Kanki Sand From 300m River Bank	Day Time	dB(A)Leq	IS 4758	66.2	-
3	Lab/PN/933D/06 K/09C	Gurra Village	Day Time	dB(A)Leq	IS 4758	62.9	-
4	Lab/PN/933D/06 K/09D	Majapur Village	Day Time	dB(A)Leq	IS 4758	61.7	-

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

  
Analyzed By  
Khushbu Suthar



  
Authorized Signatory  
Tantan Kumar

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/934D/06K/01

M/s Moil Limited

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

Reporting Date : 05/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/934D/06K/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki Sand River Bank (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

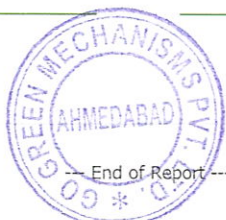
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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/934D/06K/02

M/s Moil Limited

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

Reporting Date : 05/07/2024



TC-7073

### SAMPLE DETAILS


Lab ID:	Lab/PN/934D/06K/02	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki sand 500 m from river bank(GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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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Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/934D/06K/03

M/s Moil Limited

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

Reporting Date : 05/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/934D/06K/03	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Garra village borewell (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/934D/06K/04

Reporting Date : 05/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS


Lab ID:	Lab/PN/934D/06K/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Majapur village borewell (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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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Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/01

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	28/06/2024
Sample Description:	G.W Kanki sand lease Upstream	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	198.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	37.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	68.48	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	1.0	1.5
6	Magnesium as Mg	27.22	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.64	-	IS 3025- Part 11	6.5 8.5	No relaxation
9	Sulphate	32.08	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	317.00	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 <sub>3</sub>	206.00	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

*Sachi*

Analyzed By  
Sachi Patel



*Manish*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/01

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	28/06/2024
Sample Description:	G.W Kanki sand lease Upstream	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.43	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

*Sachi*  
Analyzed By  
Sachi Patel



--- End of Report ---

*(Signature)*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/02

M/s Moil Limited

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

Reporting Date : 06/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/02	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	28/06/2024
Sample Description:	G.W Kanki sand lease downstream	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	203.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	43.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	57.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.81	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.10	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	26.76	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	348.00	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 <sub>3</sub>	236.00	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

*Sachi*

Analyzed By  
Sachi Patel



*Manish*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/02

Reporting Date : 06/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/02	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	28/06/2024
Sample Description:	G.W Kanki sand lease downstream	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.86	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

*Sachi*

Analyzed By  
Sachi Patel



*(Signature)*  
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Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/935D/06J/03

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/03	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	28/06/2024
Sample Description:	G.W Kanki Village Borewell	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMP/L/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	183.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	50.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.64	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.27	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.46	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.42	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	304.00	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 <sub>3</sub>	196.00	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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Analyzed By  
Sachi Patel



*Manish Kumawat*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/03

Reporting Date : 06/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/935D/06J/03  
Sample Drawn By: Laboratory Representative  
Sample Type: Ground Water  
Sample Description: G.W Kanki Village Borewell  
Sample Quantity: 3 L  
Sample Condition: Satisfactory

Sampling Date: 26/06/2024  
Sample Receipt Date: 28/06/2024  
Analysis Start Date: 28/06/2024  
Analysis End Date: 05/07/2024  
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	1.26	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

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Sachi Patel



*Manish Kumawat*  
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Manish Kumawat

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/04

M/s Moil Limited

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

Reporting Date : 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	28/06/2024
Sample Description:	G.W Moil Water Supply Pump House	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	215.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	72.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.92	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.76	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.82	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	35.03	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	372.00	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 <sub>3</sub>	224.00	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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Analyzed By  
Sachi Patel



*Manish Kumawat*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/04

Reporting Date : 06/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	28/06/2024
Sample Description:	G.W Moil Water Supply Pump House	Analysis End Date:	05/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.06	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

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Analyzed By  
Sachi Patel



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Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/935D/06J/05

M/s Moil Limited

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

Reporting Date: 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/05	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki Sand lease upstream	Analysis start- End Date:	28/06/2024-05/07/2024
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)	63.36	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.28	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.27	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Sachi Patel



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Report Number : GGMPL/PN/935D/06J/05

Reporting Date: 06/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/05	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki Sand lease upstream	Analysis start- End Date:	28/06/2024-05/07/2024
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	55	%	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	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/935D/06J/06

M/s Moil Limited

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

Reporting Date: 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/06	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki Sand lease Down stream	Analysis start- End Date:	28/06/2024-05/07/2024
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)	66.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.27	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.94	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.86	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	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)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Sachi Patel



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/935D/06J/06

Reporting Date: 06/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/06	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Kanki Sand lease Down stream	Analysis start- End Date:	28/06/2024-05/07/2024
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	55	%	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	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*

Analyzed By  
Sachi Patel



*Manish*

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/935D/06J/07

Reporting Date: 06/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/07	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Nr Pump House Balaghat Water Supply	Analysis start- End Date:	28/06/2024-05/07/2024
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)	63.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.04	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.02	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.60	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Sachi*

Analyzed By  
Sachi Patel



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/935D/06J/07

Reporting Date: 06/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/07	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Nr Pump House Balaghat Water Supply	Analysis start- End Date:	28/06/2024-05/07/2024
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	55	%	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	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*

Analyzed By  
Sachi Patel



--- End of Report ---

*Manish Kumawat*

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/935D/06J/08

M/s Moil Limited

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

Reporting Date: 06/07/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/08	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Nr Kanki Village	Analysis start- End Date:	28/06/2024-05/07/2024
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)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.49	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Sachi*

Analyzed By  
Sachi Patel



*Manish Kumawat*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/935D/06J/08

Reporting Date: 06/07/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/935D/06J/08	Sampling Start Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/06/2024
Sample Description:	Nr Kanki Village	Analysis start- End Date:	28/06/2024-05/07/2024
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	55	%	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	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Sachi*

Analyzed By  
Sachi Patel



--- End of Report ---

*Manish*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/935D/06J/09

Reporting Date: 06/07/2024

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:

26/06/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/935D/06J/09A	Kanki Sand Lease Upstream	Day Time	dB(A)Leq	IS 4758	64.3	-
2	Lab/PN/935D/06J/09B	Kanki Sand Lease downstream	Day Time	dB(A)Leq	IS 4758	68.3	-
3	Lab/PN/935D/06J/09C	Nr Shiv Mandir	Day Time	dB(A)Leq	IS 4758	61.6	-
4	Lab/PN/935D/06J/09D	Nr Kanki Village	Day Time	dB(A)Leq	IS 4758	63.7	-

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

*Sachi*  
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Sachi Patel



*[Signature]*  
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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/936D/06J/01

Reporting Date : 05/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS


Lab ID:	Lab/PN/936D/06J/01	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki Sand Lease up stream (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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: GGMP/L/PN/936D/06J/02

Reporting Date : 05/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/936D/06J/02	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki Sand Lease down stream (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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 ---

*Haragobinda*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/936D/06J/03

Reporting Date : 05/07/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/936D/06J/03	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Kanki Village Borewell (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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/936D/06J/04

M/s Moil Limited

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

Reporting Date : 05/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/936D/06J/04	Sampling Date:	26/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/06/2024
Sample Type:	Ground Water	Analysis Start Date:	29/06/2024
Sample Description:	Moil water Supply Pump House (GW)	Analysis End Date:	05/07/2024
Sample Quantity:	500 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	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	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 ---

*H*  
Authorized Signatory  
Dr. Haragobinda Srichandan

Page No : 1/1

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