

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/1706C/95T/V3/01

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1706C/95T/V3/01 | Sampling Date: | 29/11/2023 |
|---------------------|--------------------------------|----------------------|--------------|
| Sample Drawn By: | Laboratory Representative | Sample Receipt Date: | 02/12/2023 |
| Sample Type: | Water | Analysis Start Date: | 04/12/2023 |
| Sample Description: | Staff colony Borewell water GW | Analysis End Date: | 13/12/2023 |
| Sample Quantity: | 3.5 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| 1 | pH at 25 °C | 7.28 | - | IS 3025-Part 11 | 6.5-8.5 | No relaxation |
| 2 | Alkalinity as CaCO3 | 195.00 | mg/L | APHA 23rd Edn 2320 B | 200 | 600 |
| | Calcium as Ca | 61.72 | mg/L | APHA 23rd Edn 3500 Ca B | 75 | 200 |
| 4 | Chloride | 64.48 | mg/L | IS 3025 -Part 32 | 250 | 1000 |
| 5 | Colour | BQL (QL=1) | CU | IS 3025 Part-4 | 5 | 15 |
| 6 | Fluoride (F) | 0.51 | mg/L | APHA 23rd Edn 4500 F D | 1.0 | 1.5 |
| 7 | Magnesium as Mg | 24.78 | mg/L | APHA 23rd Edn 3500 Mg B | 30 | 100 |
| 8 | Odour | Agreeable | - | IS 3025 Part-5 | Agreeable | Agreeable |
| 9 | Sulphate | 36.78 | mg/L | APHA 23rd Edn 4500 SO4 E | 200 | 400 |
| 10 | Total Dissolved Solids | 330.00 | mg/L | APHA 23rd Edn 2540 C | 500 | 2000 |
| 11 | Total Hardness as CaCO3 | 256.00 | mg/L | APHA 23rd Edn 2340 C | 200 | 600 |
| 12 | Total Suspended Solids (TSS) | 6.00 | 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

Alver Wert Analyzed By Khushbu Suthar

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Authorized Signatory Payal Patel

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Specification:

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M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1706C/95T/V3/01 | Sampling Date: | 29/11/2023 | |
|---------------------|--------------------------------|----------------------|--------------|----------------|
| Sample Drawn By: | Laboratory Representative | Sample Receipt Date: | 02/12/2023 | |
| Sample Type: | Water | Analysis Start Date: | 04/12/2023 | |
| Sample Description: | Staff colony Borewell water GW | Analysis End Date: | 13/12/2023 | |
| Sample Quantity: | 3.5 L | Sampling Method: | GGMPL/WI/27A | |
| Sample Condition: | Satisfactory | Packing: | Sealed | |
| | | | | Specification: |
| Sr No Daran | neters Bosults Un | | | |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-----------------|---------------|------|--------------------------|-----|------------------|
| 13 | Turbidity | 2.75 | NTU | APHA 23rd Edn 2130 B | 1 | 5 |
| 14 | Iron as Fe | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B | 0.3 | No relaxation |
| 15 | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B | 0.1 | 0.3 |
| 16 | Nitrate | 5.19 | mg/L | APHA 23rd Edn 4500 NO3 B | 45 | No relaxation |

AL & PL as per IS 10500.

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

of Lustule. Analyzed By Khushbu Suthar

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P-B-D2

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/01A

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)

SAMPLE DETAILS

| Sa Sa Sa | Lab ID:Lab/PN/1706C/95T/V3/01Sample Drawn By:Laboratory RepresentativeSample Type:WaterSample Description:Staff colony Borewell water GWSample Quantity:3.5 LSample Condition:Satisfactory | | | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 13/12/2023 GGMPL/WI/27 Sealed | 7A | Specification: | | |
|----------------|--|---------------------|---------|--|---|-------------|----------------|--------|--------|
| S | r.No | Paramet | ers* | Results | Unit | Test Method | | AL | PL |
| | 1 | Total Coliform (MPN | /100ml) | Absent | MPN/100ml | IS 1622 | | Absent | Absent |
| | 2 | E.Coli (MPN/100 ml) | | Absent | MPN/100ml | IS 1622 | | Absent | Absent |

AL & PL as per IS 10500.

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

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Reporting Date : 14/12/2023

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/02

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition: | Laboratory Waste Wa | (WW) | | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 13/12/2023 GGMPL/WI/27A Sealed |
|---|------------------------|---------|------|--|--|
| Sr.No | Parameters | Results | Unit | Test Method | Norm |

| | | | orme | rescrieding | Norm |
|---|--------------------------|------------|------|----------------------|------|
| 1 | pH at 25 °C | 7.36 | - | IS 3025- Part 11 | - |
| 2 | Total Suspended Solids | 33.00 | mg/L | APHA 23rd Edn 2540 D | |
| 3 | Oil and Grease | BQL (QL=2) | mg/L | IS 3025- Part 39 | - |
| 4 | Chemical Oxygen Demand | 270.00 | mg/L | APHA 23rd Edn 5220 B | a |
| 5 | Dissolved Oxygen | 5.00 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 o C for 3 days | 70 | mg/L | IS 3025- Part 44 | - |
| 7 | Manganese as Mn | 0.580 | mg/L | APHA 23rd Edn 3120 B | - |
| | | | | | |

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

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* --- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/03

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Sampl Sampl Sampl | Lab ID:Lab/PN/1706C/95T/V3/03Sample Drawn By:Laboratory RepresentativeSample Type:Waste WaterSample Description:ETP Outlet (WW)Sample Quantity:3.5 LSample Condition:Satisfactory | | | | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 13/12/2023 GGMPL/WI/27 Sealed | 7A |
|-------------------------|---|-----|---------|------|--|---|------------|
| Sr.No | Paramet | ers | Results | Unit | Test Method | | Norm |
| 1 | pH at 25 °C | | 7.69 | - | IS 3025- Part 11 | | 5.5 to 9.0 |
| 2 | Total Suspended Soli | ds | 30.00 | mg/L | APHA 23rd Edn 2540 D | | 100 |
| | | | | | | | |

| 1 | priac 25°C | 7.69 | 1.00 | 15 3025- Part 11 | 5.5 to 9.0 |
|---|--------------------------|--------------|------|----------------------|------------|
| 2 | Total Suspended Solids | 30.00 | mg/L | APHA 23rd Edn 2540 D | 100 |
| 3 | Oil and Grease | BQL (QL=2) | mg/L | IS 3025- Part 39 | 10 |
| 4 | Chemical Oxygen Demand | 50.00 | mg/L | APHA 23rd Edn 5220 B | 250 |
| 5 | Dissolved Oxygen | 4.10 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 o C for 3 days | 15 | mg/L | IS 3025- Part 44 | 30 |
| 7 | Manganese as Mn | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | 2 |
| | | | | | |

Norms As Per CCA.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/04

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1706C/95T/V3/04 | Sampling Date: | 29/11/2023 |
|---------------------|---------------------------|----------------------|--------------|
| Sample Drawn By: | Laboratory Representative | Sample Receipt Date: | 02/12/2023 |
| Sample Type: | Waste Water | Analysis Start Date: | 04/12/2023 |
| Sample Description: | STP Inlet (WW) | Analysis End Date: | 13/12/2023 |
| Sample Quantity: | 4.5 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |
| | | | |
| Sr No Dara | motors Doculto Unit | Tost Mathad | |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|--------------------------|---------|------|----------------------|---|
| 1 | pH at 25 °C | 6.94 | - | IS 3025- Part 11 | - |
| 2 | Total Suspended Solids | 121.00 | mg/L | APHA 23rd Edn 2540 D | |
| 3 | Oil and Grease | 3.00 | mg/L | IS 3025- Part 39 | - |
| 4 | Chemical Oxygen Demand | 140.00 | mg/L | APHA 23rd Edn 5220 B | - |
| 5 | Dissolved Oxygen | 3.10 | mg/L | IS 3025- Part 38 | 1. The second |
| 6 | BOD at 27 o C for 3 days | 33 | mg/L | IS 3025- Part 44 | - |
| 7 | Manganese as Mn | 0.11 | mg/L | APHA 23rd Edn 3120 B | - |
| | | | | | |

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

Hunster Analyzed By Khushbu Suthar

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P.B.A.p

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/05

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| | | | | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 13/12/2023 GGMPL/WI/27 Sealed | 7A | |
|-------|----------------------|-----|------------|--|---|----|------------|
| Sr.No | Paramet | ers | Results | Unit | Test Method | | Norm |
| 1 | pH at 25 °C | | 7.1 | - | IS 3025- Part 11 | | 5.5 to 9.0 |
| 2 | Total Suspended Soli | ds | 22.00 | mg/L | APHA 23rd Edn 2540 D | | 100 |
| 3 | Oil and Grease | | BQL (QL=2) | mg/L | IS 3025- Part 39 | | 10 |
| | | | | | | | |

| 5 | on and Grease | DQL (QL-2) | IIIg/L | 15 3025- Part 39 | 10 |
|---|--------------------------|--------------|--------|----------------------|-----|
| 4 | Chemical Oxygen Demand | 80.00 | mg/L | APHA 23rd Edn 5220 B | 250 |
| 5 | Dissolved Oxygen | 4.50 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 o C for 3 days | 11 | mg/L | IS 3025- Part 44 | 20 |
| 7 | Manganese as Mn | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | 2 |
| | | | | | |

Norms As Per CCA.

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Klunther Analyzed By Khushbu Suthar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/05

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur

(M.S)



SAMPLE DETAILS

| Sample Drawn By:LaboratorySample Type:Waste WatSample Description:STP OutletSample Quantity:4.5 L | | Waste Water STP Outlet (V | epresentative | | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 13/12/2023 GGMPL/WI/27 Sealed | 'A | |
|---|-------|------------------------------|---------------|------------|--|---|----|------------|
| | Sr.No | Paramet | ers | Results | Unit | Test Method | | Norm |
| | 1 | pH at 25 °C | | 7.1 | - | IS 3025- Part 11 | | 5.5 to 9.0 |
| | 2 | Total Suspended Soli | ds | 22.00 | mg/L | APHA 23rd Edn 2540 D | | 100 |
| | 3 | Oil and Grease | | BQL (QL=2) | mg/L | IS 3025- Part 39 | | 10 |
| | 4 | Chemical Ovygen Der | mand | 80.00 | mall | ADUA 22rd Eda 5220 D | | 250 |

| | | | 5. | | |
|---|--------------------------|--------------|------|----------------------|-----|
| 4 | Chemical Oxygen Demand | 80.00 | mg/L | APHA 23rd Edn 5220 B | 250 |
| 5 | Dissolved Oxygen | 4.50 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 o C for 3 days | 11 | mg/L | IS 3025- Part 44 | 20 |
| 7 | Manganese as Mn | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | 2 |

Norms As Per CCA.

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

of bus blen Analyzed By Khushbu Suthar

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--- End of Report ---

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/06

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition: | Laborator Waste Wa | harge water (WW |) | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 13/12/2023 GGMPL/WI/27A Sealed |
|---|-----------------------|-----------------|------|--|--|
| Sr.No Para | meters | Results | Unit | Test Method | Norm |
| 1 pH at 25 °C | | 7.52 | - | IS 3025- Part 11 | 5 5 to 9 0 |

| 1 | pH at 25 °C | 7.52 | | IS 3025- Part 11 | 5.5 to 9.0 |
|---|--------------------------|--------------|------|----------------------|------------|
| 2 | Total Suspended Solids | 25.00 | mg/L | APHA 23rd Edn 2540 D | 100 |
| 3 | Oil and Grease | BQL (QL=2) | mg/L | IS 3025- Part 39 | 10 |
| 4 | Chemical Oxygen Demand | 50.00 | mg/L | APHA 23rd Edn 5220 B | 250 |
| 5 | Dissolved Oxygen | 4.10 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 o C for 3 days | 17 | mg/L | IS 3025- Part 44 | 30 |
| 7 | Manganese as Mn | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | 2 |
| | | | | | |

Norms As Per CCA.

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

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Page No: 1/1

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/07

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

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

Lab/PN/1706C/95T/V3/07 Laboratory Representative Ambient Air Near Mine pit Ambient Temperature Satisfactory

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 02/12/2023 Sample Receipt Date: Analysis start- End Date: 04/12/2023-13/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1 | Particulate Matter (PM10) | 62.57 | µg/m3 | IS 5182- Part 23 | 100 |
| 2 | Particulate Matter (PM2.5) | 34.57 | µg/m3 | GGMPL/SOP/AA/60 Issue No.02 August 01 | 60 |
| 3 | Sulphur Dioxide (SO2) | 12.54 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 20.25 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 15.10 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 12.49 | µg/Nm3 | GGMPL/SOP/AA/62 Issue No.02 August 01 | 400 |
| 7 | Benzene | BQL (QL=2.5) | µg/m3 | IS 5182- Part 11 | 5 |
| 8 | Benzo(a) pyrene | BQL (QL=0.5) | ng/m3 | Is 5182- Part 12 | 1 |
| 9 | Carbon Monoxide (CO) | 1.15 | 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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/07

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

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

Lab/PN/1706C/95T/V3/07 Laboratory Representative Ambient Air Near Mine pit Ambient Temperature Satisfactory

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 02/12/2023 Sample Receipt Date: Analysis start- End Date: 04/12/2023-13/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 12 | Temperature | 27 | °C | GGMPL/SOP/MP/01 | NS |
| 13 | Relative Humidity | 55 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 15 | Wind Speed | 6.2 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

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End of Report

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/08

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/1706C/95T/V3/08 Sample Drawn By: Sample Type: Ambient Air Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Satisfactory

Laboratory Representative NEAR HOSPITAL Ambient Temperature

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 Sample Receipt Date: 02/12/2023 Analysis start- End Date: 04/12/2023-13/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1 | Particulate Matter (PM10) | 63.86 | µg/m3 | IS 5182- Part 23 | 100 |
| 2 | Particulate Matter (PM2.5) | 32.49 | µg/m3 | GGMPL/SOP/AA/60 Issue No.02 August 01 | 60 |
| 3 | Sulphur Dioxide (SO2) | 14.34 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 19.42 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 15.10 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 9.72 | 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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Reporting Date: 14/12/2023



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/08

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1706C/95T/V3/08 Laboratory Representative Ambient Air NEAR HOSPITAL Ambient Temperature Satisfactory
 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-13/12/2023

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 12 | Temperature | 27 | °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 | 6.2 | 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/1706C/95T/V3/09

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1706C/95T/V3/09 |
|--------------------------|---------------------------|
| Sample Drawn By: | Laboratory Representative |
| Sample Type: | Ambient Air |
| Sample Description: | NEAR HAUL ROAD |
| Env. CondSampling: | Ambient Temperature |
| Env. CondSample Receipt: | Satisfactory |

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 Sample Receipt Date: 02/12/2023 Analysis start- End Date: 04/12/2023-13/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1 | Particulate Matter (PM10) | 65.97 | µg/m3 | IS 5182- Part 23 | 100 |
| 2 | Particulate Matter (PM2.5) | 36.24 | µg/m3 | GGMPL/SOP/AA/60 Issue No.02 August 01 | 60 |
| 3 | Sulphur Dioxide (SO2) | 15.19 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 21.22 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 15.10 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 15.27 | 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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/09

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

I

| Lab ID: |
|--------------------------|
| Sample Drawn By: |
| Sample Type: |
| Sample Description: |
| Env. CondSampling: |
| Env. CondSample Receipt: |

Lab/PN/1706C/95T/V3/09 Laboratory Representative Ambient Air NEAR HAUL ROAD Ambient Temperature Satisfactory

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 Sample Receipt Date: 02/12/2023 Analysis start- End Date: 04/12/2023-13/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 12 | Temperature | 26 | °C | GGMPL/SOP/MP/01 | NS |
| 13 | Relative Humidity | 57 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 15 | Wind Speed | 6.2 | 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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Page No: 2/2

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Reporting Date: 14/12/2023



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Mobile No : +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/10

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 14/12/2023

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1706C/95T/V3/10 Laboratory Representative Ambient Air Near Staff colony Ambient Temperature Satisfactory Sampling Start Date:29/11/2023Sampling End Date:30/11/2023Sample Receipt Date:02/12/2023Analysis start- End Date:04/12/2023-13/12/2023Total Sampling hours:24Env. Cond.-Testing: $25\pm5^{\circ}C$

| Cr No | Davametera | Desults | 11.2 | TIMULI | |
|-------|----------------------------|--------------|--------|--|----------------|
| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
| 1 | Particulate Matter (PM10) | 63.32 | 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) | 17.00 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 22.30 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 15.10 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 12.49 | µg/Nm3 | GGMPL/SOP/AA/62 Issue No.02 August 01 | 400 |
| 7 | Benzene | BQL (QL=2.5) | µg/m3 | IS 5182- Part 11 | 5 |
| 8 | Benzo(a) pyrene | BQL (QL=0.5) | ng/m3 | Is 5182- Part 12 | 1 |
| 9 | Carbon Monoxide (CO) | 1.14 | mg/m3 | IS 5182- Part 10 | 4 |
| 10 | Nickel as Ni | BQL (QL=5) | ng/m3 | USEPA Method IO 3.4 | 20 |
| 11 | Arsenic as As | BQL (QL=1) | ng/m3 | USEPA Method IO 3.4 | 6 |
| | | | | | |

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

Analyzed By Khushbu Suthar

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Authorized Signatory Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1706C/95T/V3/10

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 14/12/2023

SAMPLE DETAILS

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

Lab/PN/1706C/95T/V3/10 Laboratory Representative Ambient Air Near Staff colony Ambient Temperature Satisfactory
 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-13/12/2023

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 12 | Temperature | 27 | °C | GGMPL/SOP/MP/01 | NS |
| 13 | Relative Humidity | 58 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 15 | Wind Speed | 6.2 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

Nor

Analyzed By Khushbu Suthar

AFDARAT End of Report

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1706C/95T/V3/11

M/s Moil Limited Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Sampling Instrument : | Sound Level Meter | Sampling Date: | 29/11/2023 |
|-----------------------|---------------------------|---------------------|--------------|
| Sample By | Laboratory Representative | Sample Description: | Source Noise |

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|-----------------------------|--------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1706C/9 5T/V3/11A | Nr.Compressor Room | Day Time | dB(A)Leq | IS 4758 | 66.8 | - |
| 2 | Lab/PN/1706C/9 5T/V3/11B | Nr Mine Pit | Day Time | dB(A)Leq | IS 4758 | 63.9 | |
| 3 | Lab/PN/1706C/9 5T/V3/11C | Nr Workshop | Day Time | dB(A)Leq | IS 4758 | 65.2 | - |
| 4 | Lab/PN/1706C/9 5T/V3/11D | Nr Ventilation Fan | Day Time | dB(A)Leq | IS 4758 | 68.2 | - |

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/01

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Samp Samp Samp | D: le Drawn By: le Type: le Description: le Quantity: le Condition: | Water | C/95C/V3/01 epresentative g (Borewell Water |) (GW) | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 12/12/2023 GGMPL/WI/27 Sealed | | pecification: |
|----------------------|--|----------|---|--------|--|---|-----------|------------------|
| Sr.No | Paramet | ers | Results | Unit | Test Method | | AL | PL |
| 1 | pH at 25 °C. | | 7.36 | - | IS 3025-Part 11 | | 6.5-8.5 | No relaxation |
| 2 | Alkalinity as CaCO3 | | 181.0 | mg/L | APHA 23rd Edn 2320 B | | 200 | 600 |
| 3 | Calcium as Ca | | 62.12 | mg/L | APHA 23rd Edn 3500 Ca E | 3 | 75 | 200 |
| 4 | Chloride | | 43.48 | mg/L | IS 3025 -Part 32 | | 250 | 1000 |
| 5 | Colour | | BQL (QL=1) | CU | IS 3025 Part-4 | | 5 | 15 |
| 6 | Fluoride (F) | | 0.49 | mg/L | APHA 23rd Edn 4500 F D | | 1 | 1.5 |
| 7 | Magnesium as Mg | | 26.73 | mg/L | APHA 23rd Edn 3500 Mg E | 3 | 30 | 100 |
| 8 | Odour | | Agreeable | - | IS 3025 Part-5 | | Agreeable | Agreeable |
| 9 | Sulphate | | 34 56 | mg/I | APHA 23rd Edn 4500 SQ4 | E | 200 | 100 |
| 10 | Total Dissolved Solids | 5 | 490.0 | mg/L | APHA 23rd Edn 2540 C | | 500 | 2000 |
| 11 | Total Hardness as Ca | CO3 | 265.0 | mg/L | APHA 23rd Edn 2340 C | | 200 | 600 |
| 12 | Total Suspended Soli | ds (TSS) | 11.0 | mg/L | APHA 23rd Edn 2540 D | | NS | NS |

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

BA

Authorized Signatory Payal Patel

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Reporting Date : 13/12/2023



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/01

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Sample Drawn By: Laboratory Re Sample Type: Water | | | 95C/V3/01 resentative (Borewell Water) | (GW) | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: | 29/11/2023 02/12/2023 04/12/2023 12/12/2023 GGMPL/WI/27A | | |
|--|-----------------|--------------|--|------|--|--|-----|------------------|
| Sample | e Condition: | Satisfactory | | | Packing: | Sealed | | |
| | | | | | 5 | | | Specification: |
| Sr.No | Parame | ters F | Results | Unit | Test Method | | AL | PL |
| 13 | Turbidity | E | 3QL (QL=0.1) | NTU | APHA 23rd Edn 2130 B | | 1 | 5 |
| 14 | Iron as Fe | E | 3QL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B | | 0.3 | No Relaxation |
| 15 | Manganese as Mn | В | 3QL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B | | 0.1 | 0.3 |
| 16 | Nitrate | 5 | i.39 | mg/L | APHA 23rd Edn 4500 NO3 | В | 45 | No |

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali



PBAZ

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/01A

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

Absent

Reporting Date : 13/12/2023

Absent

Absent

SAMPLE DETAILS

E.Coli (MPN/100 ml)

| Lab ID: | | C/95C/V3/01 | | Sampling Date: | 29/11/2023 | | | |
|---------|--|------------------------|---|----------------|--|-------------------------------------|--------|----------------|
| Sample | 71 | Laboratory Re Water | Energy and a second s | | Sample Receipt Date: Analysis Start Date: | 02/12/2023 04/12/2023 | | |
| Sample | Sample Description:RaSample Quantity:5LSample Condition:Sa | |) (Borewell Water) | (GW) | Analysis End Date: Sampling Method: Packing: | 12/12/2023 GGMPL/WI/27 Sealed | Ά | |
| | | | | | | | | Specification: |
| Sr.No | Paramete | rs* | Results | Unit | Test Method | | AL | PL |
| 1 | Total Coliform (MPN/: | 100ml) | Absent | MPN/100ml | IS 1622 | | Absent | Absent |

MPN/100ml IS 1622



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

PBPU Analyzed By Authorized Signatory Priyanka Shrimali Payal Patel End of Report

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/02

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Samp Samp Samp | D: le Drawn By: le Type: le Description: le Quantity: le Condition: | Lab/PN/17050 Laboratory Re Water Near Old colo 5L Satisfactory | | - (GW) | Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method: Packing: | 29/11/2023 02/12/2023 04/12/2023 12/12/2023 GGMPL/WI/27 Sealed | | pecification: |
|----------------------|--|---|------------|--------|--|---|-----------|------------------|
| Sr.No | p Paramet | ers | Results | Unit | Test Method | | AL | PL |
| 1 | pH at 25 °C | | 7.6 | - | IS 3025-Part 11 | | 6.5-8.5 | No relaxation |
| 2 | Alkalinity as CaCO3 | | 125.0 | mg/L | APHA 23rd Edn 2320 B | | 200 | 600 |
| 3 | Calcium as Ca | | 39.67 | mg/L | APHA 23rd Edn 3500 Ca B | | 75 | 200 |
| 4 | Chloride | | 29.49 | mg/L | IS 3025 -Part 32 | | 250 | 1000 |
| 5 | Colour | | BQL (QL=1) | CU | IS 3025 Part-4 | | 5 | 15 |
| 6 | Fluoride (F) | | 0.23 | mg/L | APHA 23rd Edn 4500 F D | | 1.0 | 1.5 |
| 7 | Magnesium as Mg | | 22.59 | mg/L | APHA 23rd Edn 3500 Mg E | | 30 | 100 |
| 8 | Odour | | Agreeable | | IS 3025 Part-5 | | Agreeable | Agreeable |
| 9 | Sulphate | | 17.03 | mg/L | APHA 23rd Edn 4500 SO4 | E | 200 | 400 |
| 10 | Total Dissolved Solids | ; | 360.0 | mg/L | APHA 23rd Edn 2540 C | | 500 | 2000 |
| 11 | Total Hardness as Ca | CO3 | 192.00 | mg/L | APHA 23rd Edn 2340 C | | 200 | 600 |
| 12 | Total Suspended Soli | ds (TSS) | 6.0 | mg/L | APHA 23rd Edn 2540 D | | NS | NS |

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/02

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID | Lab ID: Lab/PN/1705C/95C/V3/02 | | | | Sampling Date: | 29/11/2023 | | |
|--------|---|---------------|---------------|------|------------------------|-------------|-----|------------------|
| Sample | e Drawn By: | Laboratory Re | epresentative | | Sample Receipt Date: | 02/12/2023 | | |
| Sample | е Туре: | Water | | | Analysis Start Date: | 04/12/2023 | | |
| Sample | Sample Description: Near Old colony Borewell Water (GW) | | | | Analysis End Date: | 12/12/2023 | | |
| Sample | e Quantity: | 5L | | | Sampling Method: | GGMPL/WI/27 | A | |
| Sample | e Condition: | Satisfactory | | | Packing: | Sealed | | |
| | | | | | | | : | Specification: |
| Sr.No | Paramet | ers | Results | Unit | Test Method | | AL | PL |
| 13 | Turbidity | | BQL (QL=0.1) | NTU | APHA 23rd Edn 2130 B | | 1 | 5 |
| 14 | Iron as Fe | | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B | | 0.3 | No Relaxation |
| 15 | Manganese as Mn | | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B | | 0.1 | No |
| | | | , | 51 | | | | Relaxation |
| 16 | Nitrate | | 1.89 | mg/L | APHA 23rd Edn 4500 NO3 | В | 45 | No |

AL & PL As Per IS 10500

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

PB-B-P Analyzed By Authorized Signatory Priyanka Shrimali Payal Patel - End of Report

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/02A

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)

SAMPLE DETAILS

| Lab ID: Sample Drawn By: Sample Type: Sample Description: Sample Quantity: Sample Condition: | Sample Drawn By:Laboratory RepresentativeSample Type:WaterSample Description:Near Old colony Borewell Water (GW)Sample Quantity:5L | | er (GW) | Sampling Date:29/11/2023Sample Receipt Date:02/12/2023Analysis Start Date:04/12/2023Analysis End Date:12/12/2023Sampling Method:GGMPL/WI/27APacking:Sealed | | Specification: | |
|---|--|---------|-----------|--|---|----------------|-------------|
| | | | | | | | opeeneution |
| Sr.No Parame | eters* | Results | Unit | Test Method | Α | L | PL |
| 1 Total Coliform (MP | N/100ml) | Absent | MPN/100ml | IS 1622 | A | bsent | Absent |

| - | | Absent | 11111/100111 13 1022 | Absent | ADSent |
|---|---------------------|--------|----------------------|--------|--------|
| 2 | E.Coli (MPN/100 ml) | Absent | MPN/100ml IS 1622 | Absent | Absent |



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



Page No: 1/1

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Reporting Date : 13/12/2023



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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1705C/95C/V3/03

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 13/12/2023

SAMPLE DETAILS

| Lab ID: | Lab/PN |
|--------------------------|---------|
| Sample Drawn By: | Labora |
| Sample Type: | Ambier |
| Sample Description: | In fron |
| Env. CondSampling: | Ambier |
| Env. CondSample Receipt: | Satisfa |
| | |

ab/PN/1705C/95C/V3/03 aboratory Representative aboratory Representative aboratory Representative aboratory Bridge aboratory
 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-12/12/2023

 Total Sampling hours:
 24

 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) | 36.24 | µg/m3 | GGMPL/SOP/AA/60 Issue No.02 August 01 | 60 |
| 3 | Sulphur Dioxide (SO2) | 16.53 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 25.09 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 12.04 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 9.97 | µg/Nm3 | GGMPL/SOP/AA/62 Issue No.02 August 01 | 400 |
| 7 | Benzene | BQL (QL=2.5) | µg/m3 | IS 5182- Part 11 | 5 |
| 8 | Benzo(a) pyrene | BQL (QL=0.5) | ng/m3 | Is 5182- Part 12 | 1 |
| 9 | Carbon Monoxide (CO) | 1.04 | mg/m3 | IS 5182- Part 10 | 4 |
| 10 | Nickel as Ni | BQL (QL=5) | ng/m3 | USEPA Method IO 3.4 | 20 |
| 11 | Arsenic as As | BQL (QL=1) | ng/m3 | USEPA Method IO 3.4 | 6 |

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

Analyzed By Priyanka Shrimali

Authorized Signatory

Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1705C/95C/V3/03

M/s Moil Limited Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S) Reporting Date: 13/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1705C/95C/V3/03 Laboratory Representative Ambient Air In front of Weigh Bridge Ambient Temperature Satisfactory

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 Sample Receipt Date: 02/12/2023 Analysis start- End Date: 04/12/2023-12/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 12 | Temperature | 25 | °C | GGMPL/SOP/MP/01 | NS |
| 13 | Relative Humidity | 58 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 15 | Wind Speed | 6.4 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

Analyzed By

Priyanka Shrimali

End of Report

Authorized Signatory

Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1705C/95C/V3/04

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1705C/950 |
|--------------------------|---------------------|
| Sample Drawn By: | Laboratory Represe |
| Sample Type: | Ambient Air |
| Sample Description: | End Point of Railwa |
| Env. CondSampling: | Ambient Temperat |
| Env. CondSample Receipt: | Satisfactory |
| | |

C/V3/04 entative ay Siding ture

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 Sample Receipt Date: 02/12/2023 Analysis start- End Date: 04/12/2023-12/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| C 11 | | | | | |
|-------|----------------------------|--------------|--------|--|----------------|
| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
| 1 | Particulate Matter (PM10) | 69.02 | µg/m3 | IS 5182- Part 23 | 100 |
| 2 | Particulate Matter (PM2.5) | 38.74 | µg/m3 | GGMPL/SOP/AA/60 Issue No.02 August 01 | 60 |
| 3 | Sulphur Dioxide (SO2) | 15.16 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 25.61 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 12.35 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 11.39 | µg/Nm3 | GGMPL/SOP/AA/62 Issue No.02 August 01 | 400 |
| 7 | Benzene | BQL (QL=2.5) | µg/m3 | IS 5182- Part 11 | 5 |
| 8 | Benzo(a) pyrene | BQL (QL=0.5) | ng/m3 | Is 5182- Part 12 | 1 |
| 9 | Carbon Monoxide (CO) | 1.08 | mg/m3 | IS 5182- Part 10 | 4 |
| 10 | Nickel as Ni | BQL (QL=5) | ng/m3 | USEPA Method IO 3.4 | 20 |
| 11 | Arsenic as As | BQL (QL=1) | ng/m3 | USEPA Method IO 3.4 | 6 |
| | | | | | |

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

Analyzed By Priyanka Shrimali

Authorized Signatory

Payal Patel

Page No: 1/2

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Reporting Date: 13/12/2023



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1705C/95C/V3/04

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



Reporting Date: 13/12/2023

SAMPLE DETAILS

| Lab ID: | Lab/PN |
|--------------------------|----------|
| Sample Drawn By: | Labora |
| Sample Type: | Ambier |
| Sample Description: | End Po |
| Env. CondSampling: | Ambier |
| Env. CondSample Receipt: | Satisfac |

ab/PN/1705C/95C/V3/04 aboratory Representative Ambient Air End Point of Railway Siding Ambient Temperature Satisfactory Sampling Start Date:29Sampling End Date:30Sample Receipt Date:02Analysis start- End Date:04Total Sampling hours:24Env. Cond.-Testing:24

29/11/2023 30/11/2023 02/12/2023 04/12/2023-12/12/2023 24 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 12 | Temperature | 26 | °C | GGMPL/SOP/MP/01 | NS |
| 13 | Relative Humidity | 59 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 15 | Wind Speed | 6.4 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

Analyzed By

Priyanka Shrimali

End of Report

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1705C/95C/V3/05

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Sampling Instrument : | Sound Level Meter |
|-----------------------|---------------------------|
| Sample By | Laboratory Representative |

Sampling Date: Sample Description: 29/11/2023 Source Noise

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|-----------------------------|--------------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1705C/9 5C/V3/05A | In Front Of Weigh Bridge | Day Time | dB(A)Leq | IS 4758 | 62.3 | - |
| 2 | Lab/PN/1705C/9 5C/V3/05B | Near Railway Siding | Day Time | dB(A)Leq | IS 4758 | 61.8 | |

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Analyzed By Privanka Shrimali



Authorized Signatory Payal Patel

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/01

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1704C/94R/V3/01 | Sampling Date: | 29/11/2023 | |
|---------------------|---|----------------------|--------------|----------------|
| Sample Drawn By: | Laboratory Representative | Sample Receipt Date: | 02/12/2023 | |
| Sample Type: | Water | Analysis Start Date: | 04/12/2023 | |
| Sample Description: | G.W (Kalapheta Village) Borewell Water | Analysis End Date: | 14/12/2023 | |
| Sample Quantity: | 5.5 L | Sampling Method: | GGMPL/WI/27A | |
| Sample Condition: | Satisfactory | Parking. | Sealed | |
| | | | | Specification: |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|------------------------------|------------|------|--------------------------|---------------|-----------------|
| 1 | pH at 25 °C | 7.35 | - | IS 3025-Part 11 | 6.5 TO 8.5 | No Relaxtion |
| 2 | Alkalinity as CaCO3 | 192.00 | mg/l | APHA 23rd Edn 2320 B | 200 | 600 |
| 3 | Calcium as Ca | 50.50 | mg/L | APHA 23rd Edn 3500 Ca B | 75 | 200 |
| 4 | Chloride | 38.98 | mg/L | IS 3025 -Part 32 | 250 | 1000 |
| 5 | Colour | BQL (QL=1) | CU | IS 3025 Part-4 | 5 | 15 |
| 6 | Fluoride (F) | 0.47 | mg/L | APHA 23rd Edn 4500 F D | 1.0 | 1.5 |
| 7 | Magnesium as Mg | 25.76 | mg/L | APHA 23rd Edn 3500 Mg B | 30 | 100 |
| 8 | Odour | Agreeable | | IS 3025 Part-5 | Agreeable | Agreeable |
| 9 | Sulphate | 21.04 | mg/L | APHA 23rd Edn 4500 SO4 E | 200 | 400 |
| 10 | Total Dissolved Solids | 339.00 | mg/L | APHA 23rd Edn 2540 C | 500 | 2000 |
| 11 | Total Hardness as CaCO3 | 232.00 | mg/L | APHA 23rd Edn 2340 C | 200 | 600 |
| 12 | Total Suspended Solids (TSS) | 7.00 | 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

HAN AHMEDABAD Analyzed By Kinjal Damor

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/01

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/: | 1704C/94R/V3/01 | | Sampling Date: | 29/11/2023 | |
|---------------------|-----------|----------------------|--------------|----------------------|--------------|----------------|
| Sample Drawn By: | Laborato | ry Representative | | Sample Receipt Date: | 02/12/2023 | |
| Sample Type: | Water | Water | | Analysis Start Date: | 04/12/2023 | |
| Sample Description: | G.W (Ka | lapheta Village) Bo | rewell Water | Analysis End Date: | 14/12/2023 | |
| Sample Quantity: | 5.5 L | | | Sampling Method: | GGMPL/WI/27A | |
| Sample Condition: | Satisfact | ory | | Packing: | Sealed | |
| | | | | | | Specification: |
| Sr.No Para | ameters | Results | Unit | Test Method | AL | PL |
| 13 Turbidity | | 1.90 | NTU | | | 5 |
| 15 Fulbluity | | 1.90 | NIU | APHA 23rd Edn 2130 B | 1 | 5 |

| 13 | Turbidity | 1.90 | NTU | APHA 23rd Edn 2130 B | 1 | 5 |
|----|-----------------|--------------|------|--------------------------|-----|-----------------|
| 14 | Iron as Fe | BQL(QL=0.05) | mg/L | APHA 23rd Edn 3120 B | 0.3 | No Relaxtion |
| 15 | Manganese as Mn | BQI(QL=0.05) | mg/L | APHA 23rd Edn 3120 B | 0.1 | 0.3 |
| 16 | Nitrate | 4.90 | mg/L | APHA 23rd Edn 4500 NO3 B | 45 | No Relaxtion |

AL & PL As Per IS 10500

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

Analyzed By Kinjal Damor

AHMEDABAD End of Report

P.B.A.K Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/01A

Reporting Date : 15/12/2023

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

SAMPLE DETAILS

| Lab ID: | Sample Drawn By: Laboratory Representative | | | Sampling Date: | 29/11/2023 | | |
|------------------------|--|---------------------|-----------|---------------------------------|--------------|----|----------------|
| Sample Drawn By: | | | | Sample Receipt Date: 02/12/2023 | | | |
| Sample Type: | Water | | | Analysis Start Date: | 04/12/2023 | | |
| Sample Description: | | ta Village) Borewe | ell Water | Analysis End Date: | 14/12/2023 | | |
| Sample Quantity: | 5.5 L | | | Sampling Method: | GGMPL/WI/27/ | 4 | |
| Sample Condition: | Satisfactory | | | Packing: | Sealed | | |
| | | | | | | | Specification: |
| Sr.No Paramete | | Results | Unit | Test Method | | AL | PL |
| 1 Total Coliform (MPN/ | 100ml) | Absent | MPN/100ml | IS 1622 | | - | Absent |

MPN/100ml IS 1622

2 E.Coli (MPN/100 ml)

AL & PL As Per IS 10500

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

Absent

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-- End of Report ---

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Page No: 1/1

Absent

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/02

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1704C/94R/V3/02 | Sampling Date: | 29/11/2023 | |
|---------------------|---------------------------|----------------------|--------------|----------------|
| Sample Drawn By: | Laboratory Representative | Sample Receipt Date: | 02/12/2023 | |
| Sample Type: | Water | Analysis Start Date: | 04/12/2023 | |
| Sample Description: | Pench River Bank (SW) | Analysis End Date: | 14/12/2023 | |
| Sample Quantity: | 3.5 L | Sampling Method: | GGMPL/WI/27A | |
| Sample Condition: | Satisfactory | Packing: | Sealed | |
| | | | | Specification: |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|------------------------------|------------|------|--------------------------|---------------|-----------------|
| 1 | pH at 25 °C | 7.56 | - | IS 3025-Part 11 | 6.5 TO 8.5 | No Relaxtion |
| 2 | Alkalinity as CaCO3 | 199.00 | mg/L | APHA 23rd Edn 2320 B | 200 | 600 |
| 3 | Calcium as Ca | 42.49 | mg/L | APHA 23rd Edn 3500 Ca B | 75 | 200 |
| 4 | Chloride | 47.99 | mg/L | IS 3025 -Part 32 | 250 | 1000 |
| 5 | Colour | BQL (QL=1) | CU | IS 3025 Part-4 | 5 | 15 |
| 6 | Fluoride (F) | 0.51 | mg/L | APHA 23rd Edn 4500 F D | 1.0 | 1.5 |
| 7 | Magnesium as Mg | 39.85 | mg/L | APHA 23rd Edn 3500 Mg B | 30 | 100 |
| 8 | Odour | Agreeable | - | IS 3025 Part-5 | Agreeable | Agreeable |
| 9 | Sulphate | 24.34 | mg/L | APHA 23rd Edn 4500 SO4 E | 200 | 400 |
| 10 | Total Dissolved Solids | 283.00 | mg/L | APHA 23rd Edn 2540 C | 500 | 2000 |
| 11 | Total Hardness as CaCO3 | 242.00 | mg/L | APHA 23rd Edn 2340 C | 200 | 600 |
| 12 | Total Suspended Solids (TSS) | 10.00 | mg/L | APHA 23rd Edn 2540 D | NS | NS |

AL & PL As Per IS 10500

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

Analyzed By Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/02

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| | Lab ID | : | Lab/PN/1704C/94R/V3/02 By: Laboratory Representative | | | Sampling Date: | 29/11/2023 | | |
|------------------------|--------|---------------------|---|---------------|------------------|--|------------|-----|------------------|
| | Sample | e Drawn By: | | | | Sample Receipt Date: 02/12/2023 | | | |
| | Sample | е Туре: | Water | | | Analysis Start Date:04/12/2023Analysis End Date:14/12/2023 | | | |
| | Sample | e Description: | Pench River E | Bank (SW) | | | | | |
| Sample Quantity: 3.5 L | | 3.5 L | | | Sampling Method: | GGMPL/WI/27A | | | |
| | Sample | e Condition: | Satisfactory | | | Packing: | Sealed | | |
| | | | | | | | | | Specification: |
| | Sr.No | Parame | ters | Results | Unit | Test Method | | AL | PL |
| | 13 | Turbidity | | 4.80 | NTU | APHA 23rd Edn 2130 B | | 1 | 5 |
| | 14 | Iron as Fe | | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B | | 0.3 | No relaxation |
| | 15 | Manganese as Mn | | BOL (OL=0.05) | mall | APHA 23rd Edn 3120 B | | 0.1 | |
| | 10 | Fidingunese as Fill | | DQL(QL-0.03) | mg/L | AFTIA ZOTU EULI DIZU D | | 0.1 | 0.3 |

mg/L

16 Nitrate

AL & PL As Per IS 10500

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

5.41

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/02A

Reporting Date : 15/12/2023

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

SAMPLE DETAILS

| Lab IC |): | Lab/PN/1704C | /94R/V3/02 | | Sampling Date: | 29/11/2023 | |
|--------|----------------------|----------------|--------------|-----------|----------------------|--------------|----------------|
| Sampl | e Drawn By: | Laboratory Re | presentative | | Sample Receipt Date: | 02/12/2023 | |
| Sampl | e Type: | Water | | | Analysis Start Date: | 04/12/2023 | |
| Sampl | e Description: | Pench River Ba | ank (SW) | | Analysis End Date: | 14/12/2023 | |
| Sampl | e Quantity: | 3.5 L | | | Sampling Method: | GGMPL/WI/27A | |
| Sampl | e Condition: | Satisfactory | | | Packing: | Sealed | |
| | | | | | | | Specification: |
| Sr.No | Paramete | rs* | Results | Unit | Test Method | AL | PL |
| | | | | | rescriction | AL | FL |
| 1 | Total Coliform (MPN/ | 100ml) | Absent | MPN/100ml | | - - | Absent |

AL & PL As Per IS 10500

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

Analyzed By Kinjal Damor

AHMEDABAD End of Report

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/03

M/s Moil Limited Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1704C/94R/V3/03 |
|--------------------------|---------------------------|
| Sample Drawn By: | Laboratory Representative |
| Sample Type: | Ambient Air |
| Sample Description: | Pench Riverbank |
| Env. CondSampling: | Ambient Temperature |
| Env. CondSample Receipt: | Laboratory Representative |

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 Sample Receipt Date: 02/12/2023 Analysis start- End Date: 04/12/2023-14/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1 | Particulate Matter (PM10) | 62.10 | 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) | 12.00 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 19.76 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 13.56 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 11.11 | 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 | 0.68 | ng/m3 | Is 5182- Part 12 | 1 |
| 9 | Carbon Monoxide (CO) | 1.32 | 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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M/s Moil Limited Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1704C/94R/V3/03 |
|--------------------------|---------------------------|
| Sample Drawn By: | Laboratory Representative |
| Sample Type: | Ambient Air |
| Sample Description: | Pench Riverbank |
| Env. CondSampling: | Ambient Temperature |
| Env. CondSample Receipt: | Laboratory Representative |

 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-14/12/2023

 Total Sampling hours:
 24

 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 | 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 | 2.3 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

Analyzed By Kinjal Damor

HAA AHMEDABAD nd of Report

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/04

M/s Moil Limited Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1704C/94R/V3/04 |
|--------------------------|---------------------------|
| Sample Drawn By: | Laboratory Representative |
| Sample Type: | Ambient Air |
| Sample Description: | 500m from Riverbank |
| Env. CondSampling: | Ambient Temperature |
| Env. CondSample Receipt: | Laboratory Representative |

Sampling Start Date: 29/11/2023 Sampling End Date: 30/11/2023 Sample Receipt Date: 02/12/2023 Analysis start- End Date: 04/12/2023-14/12/2023 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1 | Particulate Matter (PM10) | 67.15 | µg/m3 | IS 5182- Part 23 | 100 |
| 2 | Particulate Matter (PM2.5) | 32.49 | µg/m3 | GGMPL/SOP/AA/60 Issue No.02 August 01 | 60 |
| 3 | Sulphur Dioxide (SO2) | 11.92 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 20.47 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 12.95 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 11.11 | 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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/04

M/s Moil Limited Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1704C/94R/V3/04 |
|--------------------------|---------------------------|
| Sample Drawn By: | Laboratory Representative |
| Sample Type: | Ambient Air |
| Sample Description: | 500m from Riverbank |
| Env. CondSampling: | Ambient Temperature |
| Env. CondSample Receipt: | Laboratory Representative |

 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-14/12/2023

 Total Sampling hours:
 24

 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 | 57 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01:2020 | NS |
| 15 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 16 | Wind Speed | 2.3 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

Analyzed By Kinjal Damor

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Page No: 2/2

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Reporting Date: 15/12/2023



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/1704C/94R/V3/05 M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1704C/94R/V3/05 Laboratory Representative Ambient Air Kalaphata Village Ambient Temperature Laboratory Representative
 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-14/12/2023

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1 | Particulate Matter (PM10) | 64.43 | µg/m3 | IS 5182- Part 23 | 100 |
| 2 | Particulate Matter (PM2.5) | 33.32 | µg/m3 | GGMPL/SOP/AA/60 Issue No.02 August 01 | 60 |
| 3 | Sulphur Dioxide (SO2) | 11.06 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 20.83 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 13.25 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 12.49 | µg/Nm3 | GGMPL/SOP/AA/62 Issue No.02 August 01 | 400 |
| 7 | Benzene | BQL (QL=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 | 1.31 | ng/m3 | USEPA Method IO 3.4 | 6 |

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

Analyzed By Kinjal Damor

HMEDABAD

Authorized Signatory Payal Patel

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Reporting Date: 15/12/2023



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/05

M/s Moil Limited Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Lab ID: | Lab/PN/1704C/94R/V3/05 |
|--------------------------|---------------------------|
| Sample Drawn By: | Laboratory Representative |
| Sample Type: | Ambient Air |
| Sample Description: | Kalaphata Village |
| Env. CondSampling: | Ambient Temperature |
| Env. CondSample Receipt: | Laboratory Representative |

 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-14/12/2023

 Total Sampling hours:
 24

 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 | 57 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01:2020 | NS |
| 15 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 16 | Wind Speed | 2.3 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

Analyzed By Kinjal Damor

CHAA MEDABAI End of Report

Authorized Signatory Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1704C/94R/V3/06 M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1704C/94R/V3/06 Laboratory Representative Ambient Air Mahuli Village Ambient Temperature Laboratory Representative
 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-14/12/2023

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1 | Particulate Matter (PM10) | 68.30 | 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) | 11.84 | µg/m3 | IS 5182-Part 2 | 80 |
| 4 | Nitrogen Dioxide (NO2) | 20.47 | µg/m3 | IS 5182- Part 6 | 80 |
| 5 | Ozone (O3) | 12.95 | µg/m3 | IS 5182- Part 9 | 100 |
| 6 | Ammonia (NH3) | 8.33 | µg/Nm3 | GGMPL/SOP/AA/62 Issue No.02 August 01 | 400 |
| 7 | Benzene | BQL (QL=2.5) | µg/m3 | IS 5182- Part 11 | 5 |
| 8 | Benzo(a) pyrene | BQL (QL=0.5) | ng/m3 | Is 5182- Part 12 | 1 |
| 9 | Carbon Monoxide (CO) | 1.07 | mg/m3 | IS 5182- Part 10 | 4 |
| 10 | Nickel as Ni | BQL (QL=5) | ng/m3 | USEPA Method IO 3.4 | 20 |
| 11 | Arsenic as As | BQL (QL=1) | ng/m3 | USEPA Method IO 3.4 | 6 |

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

Analyzed By Kinjal Damor

AAN

Authorized Signatory

Payal Patel

Page No: 1/2

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Report Number : GGMPL/PN/1704C/94R/V3/06

M/s Moil Limited Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1704C/94R/V3/06 Laboratory Representative Ambient Air Mahuli Village Ambient Temperature Laboratory Representative
 Sampling Start Date:
 29/11/2023

 Sampling End Date:
 30/11/2023

 Sample Receipt Date:
 02/12/2023

 Analysis start- End Date:
 04/12/2023-14/12/2023

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

| Sr.No | Parameters | Results | Unit | Test Method | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 12 | Temperature | 28 | °C | GGMPL/SOP/MP/01 | NS |
| 13 | Relative Humidity | 57 | % | GGMPL/SOP/MP/01 | NS |
| 14 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01:2020 | NS |
| 15 | Lead | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4 | 1 |
| 16 | Wind Speed | 2.3 | m/s | GGMPL/SOP/MP/01:2020 | NS |

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

Analyzed By Kinjal Damor

End of Report

Authorized Signatory

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1704C/94R/V3/07

M/s Moil Limited Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

| Sampling Instrument : | Sound Level Meter | Sampling Date: | 29/11/2023 |
|-----------------------|---------------------------|---------------------|--------------|
| Sample By | Laboratory Representative | Sample Description: | Source Noise |

| Sr.No | | Location | Time | Unit | Test Method | Reading | Norms |
|-------|-----------------------------|-------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1704C/9 4R/V3/07A | Pench river bank | Day Time | dB(A)Leq | IS 4758 | 59.3 | - |
| 2 | Lab/PN/1704C/9 4R/V3/07B | 500 m from river | Day Time | dB(A)Leq | IS 4758 | 56.9 | |
| 3 | Lab/PN/1704C/9 4R/V3/07C | Kalaphata village | Day Time | dB(A)Leq | IS 4758 | 52.3 | - |
| 4 | Lab/PN/1704C/9 4R/V3/07D | Mahuli Village | Day Time | dB(A)Leq | IS 4758 | 54.6 | |

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

Analyzed By Kinjal Damor

HAN 11 AHMEDABAD End of Report

DB.W

Authorized Signatory Payal Patel

Page No: 1/1

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