

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/901C/76A/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/901C/76A/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Nr Workshop Borewell (GW)

Sample Quantity:

3.5L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters                   | Results    | Unit           | Test Method              | AL        | PL               |
|-------|------------------------------|------------|----------------|--------------------------|-----------|------------------|
| 1     | pH at 25 °C                  | 7.34       | : <del>-</del> | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 150.00     | mg/L           | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 41.68      | mg/L           | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 33.48      | mg/L           | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU             | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.35       | mg/L           | APHA 23rd Edn 4500 F D   | 1.0       | 1.5              |
| 7     | Magnesium as Mg              | 19.68      | mg/L           | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  | -05            | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 23.21      | mg/L           | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 272.00     | mg/L           | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 185.00     | 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

Ritu Shah



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/901C/76A/V2/01 Sample Drawn By: Laboratory Representative Sample Type:

Water

Sample Description: Sample Quantity:

Nr Workshop Borewell (GW)

3.5L

Sample Condition: Satisfactory Sampling Date:

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

Sampling Method:

Packing:

GGMPL/WI/27A

03/08/2023

06/08/2023

07/08/2023

14/08/2023

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 as Fe      | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.3 | No<br>relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | 3.73          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah



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Page No: 2/2

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Report Number: GGMPL/PN/901C/76A/V2/01A

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/901C/76A/V2/01 Laboratory Representative

Nr Workshop Borewell (GW) 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

14/08/2023 GGMPL/WI/27A

03/08/2023

06/08/2023

07/08/2023

Sealed

Specification:

| Sr.No | Parameters*                | 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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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



Reporting Date: 16/08/2023

TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/901C/76A/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Old Pit Reservior (GW)

Sample Quantity: 3.5L Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

07/08/2023 14/08/2023

03/08/2023

06/08/2023

GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| 1     | pH at 25 °C                  | 7.48       | -    | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 148.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 45.69      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 100              |
| 4     | Chloride                     | 30.49      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.25       | mg/L | APHA 23rd Edn 4500 F D   | 1.0       | 1.5              |
| 7     | Magnesium as Mg              | 19.92      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  |      | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 22.18      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 264.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 196.00     | mg/L | APHA 23rd Edn 2340 C     | 200       | 600              |
| 12    | Total Suspended Solids (TSS) | 8.00       | 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 Ritu Shah



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Report Number: GGMPL/PN/901C/76A/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:Lab/PN/901C/76A/V2/02Sampling Date:Sample Drawn By:Laboratory RepresentativeSample ReceiptSample Type:WaterAnalysis Start DSample Description:Old Pit Reservior (GW)Analysis End Da

Sample Quantity: 3.5L

Sample Condition: Satisfactory

Sampling Date: 03/08/2023 Sample Receipt Date: 06/08/2023

Analysis Start Date: 07/08/2023
Analysis End Date: 14/08/2023
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 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         | BQL (QL=0.5)  | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

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Report Number: GGMPL/PN/901C/76A/V2/02A

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

## SAMPLE DETAILS

Lab ID:

Lab/PN/901C/76A/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Old Pit Reservior (GW)

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

GGMPL/WI/27A Sealed

03/08/2023

06/08/2023

07/08/2023

14/08/2023

Packing:

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Ritu Shah



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/03

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/901C/76A/V2/03

03/08/2023

Sample Drawn By:

Laboratory Representative

06/08/2023

Sample Type: Sample Description:

07/08/2023

Sample Quantity:

Kurmuda Plant (GW)

14/08/2023

Sample Condition:

3.5L Satisfactory Sampling Method: GGMPL/WI/27A

Sealed

Packing:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Specification:

|       |                              |            |      | '                        |           |                  |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
| 1     | pH at 25 °C                  | 7.19       | -    | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 128.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 30.46      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 38.48      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.29       | mg/L | APHA 23rd Edn 4500 F D   | 1.0       | 1.5              |
| 7     | Magnesium as Mg              | 15.06      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  |      | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 28.13      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 268.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 138.00     | mg/L | APHA 23rd Edn 2340 C     | 200       | 600              |
| 12    | Total Suspended Solids (TSS) | 12.00      | 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 Ritu Shah

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/901C/76A/V2/03

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/901C/76A/V2/03 Laboratory Representative Sampling Date: Sample Receipt Date: 03/08/2023 06/08/2023 07/08/2023

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date:

14/08/2023

Sample Quantity:
Sample Condition:

Kurmuda Plant (GW) 3.5L Satisfactory

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 as Fe      | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.3 | No<br>relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | BQL (QL=0.5)  | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah



Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/03A

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/901C/76A/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

3.5L

Sample Description:

Kurmuda Plant (GW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Ritu Shah



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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/04

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/901C/76A/V2/04

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Description:

Pond Nr Shiv Mandir (GW)

Sample Quantity: Sample Condition: 3.5L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023 14/08/2023

GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| 1     | pH at 25 °C                  | 7.31       | -    | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 127.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 27.25      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 54.98      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.32       | mg/L | APHA 23rd Edn 4500 F D   | 1.0       | 1.5              |
| 7     | Magnesium as Mg              | 16.52      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  |      | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 16.87      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 226.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 136.00     | mg/L | APHA 23rd Edn 2340 C     | 200       | 600              |
| 12    | Total Suspended Solids (TSS) | 12.00      | 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 Ritu Shah

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/04

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/901C/76A/V2/04 Sampling Date: 03/08/2023 Sample Drawn By: Laboratory Representative Sample Receipt Date: 06/08/2023 Sample Type: Analysis Start Date: 07/08/2023 Sample Description: Pond Nr Shiv Mandir (GW) Analysis End Date: 14/08/2023 Sample Quantity: 3.5L Sampling Method: GGMPL/WI/27A

Sample Condition: Satisfactory Sealed

Packing:

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 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         | 2.54          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah



**Authorized Signatory** Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/04A

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Pond Nr Shiv Mandir (GW)

Sample Quantity:

Sample Condition:

Lab/PN/901C/76A/V2/04

Laboratory Representative

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

03/08/2023

06/08/2023

07/08/2023

14/08/2023

Sealed

Specification:

| Sr.No | Parameters*                | 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

Ritu Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/05

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/901C/76A/V2/05 Laboratory Representative

Ambient Air Nr Mine Workshop Ambient Temperature Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing:

03/08/2023 04/08/2023

25±5°C

06/08/2023 07/08/2023-14/08/2023

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 65.54        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 33.74        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 11.20        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 17.55        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | 10.37        | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 5.84         | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12    | Temperature                | 28           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/05

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/901C/76A/V2/05

Laboratory Representative Ambient Air

Nr Mine Workshop Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

03/08/2023 04/08/2023

06/08/2023 07/08/2023-14/08/2023

24

25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 54             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | μg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | 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/901C/76A/V2/06

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/901C/76A/V2/06

Laboratory Representative Ambient Air

Nr Railway Station Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

03/08/2023 04/08/2023

06/08/2023 07/08/2023-14/08/2023

25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 60.31        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 30.82        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 12.05        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 18.07        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | 10.05        | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 7.18         | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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)       | 1.11         | mg/m3  | IS 5182- Part 10                         | 4              |
| 10    | Nickel as Ni               | BQL (QL=5)   | ng/m3  | USEPA Method IO 3.4                      | 20             |
| 11    | Arsenic as As              | BQL (QL=1)   | ng/m3  | USEPA Method IO 3.4                      | 6              |
| 12    | Temperature                | 26           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Ritu Shah

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/06

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/901C/76A/V2/06 Laboratory Representative Ambient Air Nr Railway Station Ambient Temperature Satisfactory 

 Sampling Start Date:
 03/08/2023

 Sampling End Date:
 04/08/2023

 Sample Receipt Date:
 06/08/2023

 Analysis start- End Date:
 07/08/2023-14/08/2023

 Total Sampling hours:
 24

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

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 58             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 | NS             |

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

Analyzed By Ritu Shah



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/07

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/901C/76A/V2/07 Laboratory Representative

Ambient Air

Kurmuda Grampanchayat Office Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 57.14        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 34.99        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 11.86        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 15.87        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | 10.99        | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 12.93        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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)       | 1.11         | mg/m3  | IS 5182- Part 10                         | 4              |
| 10    | Nickel as Ni               | BQL (QL=5)   | ng/m3  | USEPA Method IO 3.4                      | 20             |
| 11    | Arsenic as As              | BQL (QL=1)   | ng/m3  | USEPA Method IO 3.4                      | 6              |
| 12    | Temperature                | 29           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Ritu Shah CHANIS OP WILL AHMEDABAD PVI

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/07

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Satisfactory

Reporting Date: 16/08/2023



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/901C/76A/V2/07 Laboratory Representative Ambient Air

Kurmuda Grampanchayat Office Ambient Temperature

Sampling Start Date: 03/08/2023 Sampling End Date: Sample Receipt Date: Analysis start- End Date:

04/08/2023 06/08/2023 07/08/2023-14/08/2023

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

Parameters Sr.No Results Unit Test Method NAAQ Standards 13 Relative Humidity 53 % GGMPL/SOP/MP/01 NS 14 Lead BQL (QL=0.001) µg/m3 USEPA Method IO 3.4 1 5 Wind Speed GGMPL/SOP/MP/01:2020 NS 15 m/s

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/08

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/901C/76A/V2/08

Laboratory Representative Ambient Air

Nr Mine Magazine Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

04/08/2023 06/08/2023

03/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 61.80        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 31.24        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 9.09         | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 16.15        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | BQL (QL=10)  | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 10.05        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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)       | 1.16         | mg/m3  | IS 5182- Part 10                         | 4              |
| 10    | Nickel as Ni               | BQL (QL=5)   | ng/m3  | USEPA Method IO 3.4                      | 20             |
| 11    | Arsenic as As              | BQL (QL=1)   | ng/m3  | USEPA Method IO 3.4                      | 6              |
| 12    | Temperature                | 30           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Ritu Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/08

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/901C/76A/V2/08

Laboratory Representative Ambient Air

Nr Mine Magazine Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 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        | 5              | m/s   | GGMPL/SOP/MP/01:2020 | NS             |

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

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AHMEDABAD P \* : 01

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/901C/76A/V2/09

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

03/08/2023

Source Noise

| Sr.No | Lab Id                     | Location                  | Time     | Unit     | Test Method | Reading | Norms |
|-------|----------------------------|---------------------------|----------|----------|-------------|---------|-------|
| 1     | Lab/PN/901C/76<br>A/V2/09A | Near Mine Workshop        | Day Time | dB(A)Leq | IS 4758     | 68.5    | 75    |
| 2     | Lab/PN/901C/76<br>A/V2/09B | Near Haulage Road         | Day Time | dB(A)Leq | IS 4758     | 64.8    | 75    |
| 3     | Lab/PN/901C/76<br>A/V2/09C | Near Crushing & Screening | Day Time | dB(A)Leq | IS 4758     | 69.5    | 75    |
| 4     | Lab/PN/901C/76<br>A/V2/09D | Near Mine Magazine        | Day Time | dB(A)Leq | IS 4758     | 66.3    | 75    |

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/902C/76B/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Drinking Water of Syndicate Colony (DW)

Sample Quantity: Sample Condition: 3.5L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 03/08/2023

06/08/2023 07/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

|       |                              |            |      |                          |           | podinidationi    |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
| 1     | pH at 25 °C                  | 7.36       | -    | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 142.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 34.46      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 28.99      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.29       | mg/L | APHA 23rd Edn 4500 F D   | 1         | 1.5              |
| 7     | Magnesium as Mg              | 18.46      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  |      | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 17.66      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 264.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 162.00     | mg/L | APHA 23rd Edn 2340 C     | 200       | 600              |
| 12    | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 23rd Edn 2540 D     | NS        | NS               |

AL & PL As Per IS 10500.

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

Analyzed By

AHMEDABAD VY

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



03/08/2023 06/08/2023

07/08/2023

14/08/2023

## SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/902C/76B/V2/01

Laboratory Representative Water

Sample Type: Sample Description: Sample Quantity:

Drinking Water of Syndicate Colony (DW)

3.5L

Sample Condition:

Satisfactory

Sampling Date:

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

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 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         | 3.46          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

Analyzed By Sachi Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/01A

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/902C/76B/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Sample Quantity:

3.5L

Sample Condition:

Drinking Water of Syndicate Colony (DW)

Satisfactory

Sampling Date:

03/08/2023

Sample Receipt Date: Analysis Start Date:

06/08/2023 07/08/2023

Analysis End Date:

14/08/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

| Sr.No | Parameters*                | 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

Sachi Patel



Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/902C/76B/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type: Wat

Water

Sample Description:

Sample Condition:

Pond Near Filter Plant (GW)

Sample Quantity: 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023 14/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| 1     | pH at 25 °C                  | 7.42       | -    | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 148.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 38.47      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 42.98      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.27       | mg/L | APHA 23rd Edn 4500 F D   | 1         | 1.5              |
| 7     | Magnesium as Mg              | 19.92      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  | - 1  | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 23.82      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 276.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 178.00     | mg/L | APHA 23rd Edn 2340 C     | 200       | 600              |
| 12    | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 23rd Edn 2540 D     | NS        | NS               |
|       |                              |            |      |                          |           |                  |

AL & PL As Per IS 10500.

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

Analyzed By Sachi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/902C/76B/V2/02

Sampling Date: Sample Receipt Date: 03/08/2023 06/08/2023

Sample Type:

Laboratory Representative Water

Analysis Start Date:

07/08/2023 14/08/2023

Sample Description: Sample Quantity:

Pond Near Filter Plant (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Condition:

3.5L Satisfactory

Sealed

Packing:

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 as Fe      | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.3 | No<br>relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | 3.85          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

Sachi Patel

**Authorized Signatory** Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/02A

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/902C/76B/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity: Pond Near Filter Plant (GW)

Sample Condition:

3.5L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Sachi Patel AHMEDABAD VI

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/03

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/902C/76B/V2/03

Laboratory Representative

Ambient Air

Near Siren Room Dump Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 64.72        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 34.57        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 13.60        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 17.04        | µg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | BQL (QL=10)  | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 8.62         | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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)       | 1.11         | mg/m3  | IS 5182- Part 10                         | 4              |
| 10    | Nickel as Ni               | BQL (QL=5)   | ng/m3  | USEPA Method IO 3.4                      | 20             |
| 11    | Arsenic as As              | BQL (QL=1)   | ng/m3  | USEPA Method IO 3.4                      | 6              |
| 12    | Temperature                | 28           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Sachi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/03

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

# SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/902C/76B/V2/03 Laboratory Representative Ambient Air Near Siren Room Dump Ambient Temperature

Satisfactory

Sampling Start Date: 03/08/2023
Sampling End Date: 04/08/2023
Sample Receipt Date: 06/08/2023
Analysis start- End Date: 07/08/2023
Total Sampling hours: 24

04/08/2023 06/08/2023 07/08/2023-14/08/2023

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

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 60             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5.0            | m/s   | GGMPL/SOP/MP/01:2020 | NS             |
|       |                   |                |       |                      |                |

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

Analyzed By Sachi Patel AHMEDABAD P

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/04

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/902C/76B/V2/04 Laboratory Representative

Ambient Air Syndicate Colony Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 67.16        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 37.07        | µg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 13.79        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 15.35        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | BQL (QL=10)  | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 8.62         | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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)       | 1.16         | mg/m3  | IS 5182- Part 10                         | 4              |
| 10    | Nickel as Ni               | BQL (QL=5)   | ng/m3  | USEPA Method IO 3.4                      | 20             |
| 11    | Arsenic as As              | BQL (QL=1)   | ng/m3  | USEPA Method IO 3.4                      | 6              |
| 12    | Temperature                | 28           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Sach

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/04

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/902C/76B/V2/04

Laboratory Representative

Ambient Air Syndicate Colony Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 59             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 | NS             |

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

Analyzed By

Analyzed By Sachi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/902C/76B/V2/05

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

03/08/2023

Source Noise

| Sr.No | Lab Id                     | Location               | Time     | Unit     | Test Method | Reading | Norms |
|-------|----------------------------|------------------------|----------|----------|-------------|---------|-------|
| 1     | Lab/PN/902C/76<br>B/V2/05A | Foot Wall Haulage Road | Day Time | dB(A)Leq | IS 4758     | 64.3    | 75    |
| 2     | Lab/PN/902C/76<br>B/V2/05B | Near Siren Room Dump   | Day Time | dB(A)Leq | IS 4758     | 61.5    | 75    |

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

Analyzed By

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/903C/76C/V2/01

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Mine Pit Discharge (GW)

Sample Quantity: 3.5L Satisfactory

Sample Condition:

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023 14/08/2023

GGMPL/WI/27A

Sealed

Specification:

| 1       pH at 25 °C       7.38       -       IS 3025-Part 11         2       Alkalinity as CaCO3       176.00       mg/L       APHA 23rd Edn 2320 B         3       Calcium as Ca       47.29       mg/L       APHA 23rd Edn 3500 Ca B         4       Chloride       62.98       mg/L       IS 3025 -Part 32         5       Colour       3       CU       IS 3025 Part-4         6       Fluoride (F)       0.39       mg/L       APHA 23rd Edn 4500 F D         7       Magnesium as Mg       19.44       mg/L       APHA 23rd Edn 3500 Mg B | 6.5 to 8.5 No Relaxation 200 600 75 200 |
|---|---|
| 3 Calcium as Ca 47.29 mg/L APHA 23rd Edn 3500 Ca B 4 Chloride 62.98 mg/L IS 3025 -Part 32 5 Colour 3 CU IS 3025 Part-4 6 Fluoride (F) 0.39 mg/L APHA 23rd Edn 4500 F D  |   |
| 4 Chloride 62.98 mg/L IS 3025 -Part 32 5 Colour 3 CU IS 3025 Part-4 6 Fluoride (F) 0.39 mg/L APHA 23rd Edn 4500 F D   | 75 200                                  |
| 5 Colour 3 CU IS 3025 Part-4 6 Fluoride (F) 0.39 mg/L APHA 23rd Edn 4500 F D  |   |
| 6 Fluoride (F) 0.39 mg/L APHA 23rd Edn 4500 F D   | 250 1000                                |
|   | 5 15                                    |
| 7 Magnesium as Mg 19.44 mg/L APHA 23rd Edn 3500 Mg B  | 1 1.5                                   |
| , , , , , , , , , , , , , , , , , , ,   | 30 100                                  |
| 8 Odour Agreeable - IS 3025 Part-5  | Agreeable Agreeable                     |
| 9 Sulphate 33.89 mg/L APHA 23rd Edn 4500 SO4 E  | 200 400                                 |
| 10 Total Dissolved Solids 342.00 mg/L APHA 23rd Edn 2540 C  | 500 2000                                |
| 11 Total Hardness as CaCO3 198.00 mg/L APHA 23rd Edn 2340 C   | 200 600                                 |
| 12 Total Suspended Solids (TSS) 11.00 mg/L APHA 23rd Edn 2540 D   | 200                                     |

AL & PL as per IS 10500.

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

Analyzed By Krima Solanki



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/903C/76C/V2/01 Laboratory Representative Sampling Date: Sample Receipt Date: Analysis Start Date:

03/08/2023 06/08/2023 07/08/2023

Sample Type: Sample Description:

Mine Pit Discharge (GW)

Analysis End Date:

14/08/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition: Satisfactory

3.5L

Water

Sampling Method:

Packing:

Sealed

Specification:

| Sr.No | Parameters      | Results       | Unit | Test Method              | AL  | PL               |
|-------|-----------------|---------------|------|--------------------------|-----|------------------|
| 13    | Turbidity       | 3.85          | 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<br>Relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | 5.05          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>Relaxation |

AL & PL as per IS 10500.

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

Analyzed By Krima Solanki



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/01A

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/903C/76C/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

Mine Pit Discharge (GW)

Sample Condition:

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Krima Solanki

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/903C/76C/V2/02

03/08/2023

Sample Drawn By: Sample Type:

Laboratory Representative

06/08/2023

Sample Description:

Water Piezometer Borewell (GW) 07/08/2023 14/08/2023

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Analysis End Date: Sampling Method: Packing:

Sample Receipt Date:

Analysis Start Date:

Sampling Date:

GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters                   | Results   | Unit | Test Method              | AL         | PL               |
|-------|------------------------------|-----------|------|--------------------------|------------|------------------|
| 1     | pH at 25 °C                  | 7.51      | -    | IS 3025-Part 11          | 6.5 to 8.5 | No<br>Relaxation |
| 2     | Alkalinity as CaCO3          | 196.00    | mg/L | APHA 23rd Edn 2320 B     | 200        | 600              |
| 3     | Calcium as Ca                | 62.52     | mg/L | APHA 23rd Edn 3500 Ca B  | 75         | 200              |
| 4     | Chloride                     | 77.98     | mg/L | IS 3025 -Part 32         | 250        | 1000             |
| 5     | Colour                       | 3         | CU   | IS 3025 Part-4           | 5          | 15               |
| 6     | Fluoride (F)                 | 0.54      | mg/L | APHA 23rd Edn 4500 F D   | 1          | 1.5              |
| 7     | Magnesium as Mg              | 18.47     | mg/L | APHA 23rd Edn 3500 Mg B  | 30         | 100              |
| 8     | Odour                        | Agreeable |      | IS 3025 Part-5           | Agreeable  | Agreeable        |
| 9     | Sulphate                     | 43.54     | mg/L | APHA 23rd Edn 4500 SO4 E | 200        | 400              |
| 10    | Total Dissolved Solids       | 364.00    | 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) | 13.00     | 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 Krima Solanki

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/903C/76C/V2/02

Sampling Date:

03/08/2023

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date: Analysis Start Date: 06/08/2023 07/08/2023

Sample Description:

Piezometer Borewell (GW)

Analysis End Date: Sampling Method: 14/08/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Packing:

Sealed

Specification:

| Sr.No | Parameters      | Results       | Unit | Test Method              | AL  | PL               |
|-------|-----------------|---------------|------|--------------------------|-----|------------------|
| 13    | Turbidity       | 4.52          | NTU  | APHA 23rd Edn 2130 B     | 1   | 5<br>No.         |
| 14    | Iron as Fe      | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.3 | No<br>Relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | 5.38          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>Relaxation |

AL & PL as per IS 10500.

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

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Analyzed By Krima Solanki AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/02A

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/903C/76C/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Piezometer Borewell (GW)

Sample Quantity: 3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

03/08/2023

06/08/2023 07/08/2023

14/08/2023

GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Krima Solanki HAA

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/03

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Laboratory Representative Ambient Air Near Haulage Road viewpoint

Lab/PN/903C/76C/V2/03

Ambient Temperature Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing:

03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

| Env. Co | ondSample Receipt:         | Satisfactory |         |       | Env. CondTesting:         | 25±5°C |                |
|---------|----------------------------|--------------|---------|-------|---------------------------|--------|----------------|
|         |                            |              |         |       |                           |        |                |
| Sr.No   | Parameters                 |              | Results | Unit  | Test Method               |        | NAAQ Standards |
| 1       | Particulate Matter (PM10)  |              | 60.39   | μg/m3 | IS 5182- Part 23          |        | 100            |
| 2       | Particulate Matter (PM2.5) |              | 31.66   | μg/m3 | GGMPL/SOP/AA/60 Issue No. | 02     | 60             |

| Particulate Matter (PM10)  | 60.39   | μg/m3   | IS 5182- Part 23   | 100  |
|----------------------------|---|---|--|--|
| Particulate Matter (PM2.5) | 31.66   | μg/m3   | GGMPL/SOP/AA/60 Issue No.02<br>August 01   | 60   |
| Sulphur Dioxide (SO2)      | 9.08  | μg/m3   | IS 5182-Part 2   | 80   |
| Nitrogen Dioxide (NO2)     | 18.57   | μg/m3   | IS 5182- Part 6  | 80   |
| Ozone (O3)                 | BQL (QL=10)   | μg/m3   | IS 5182- Part 9  | 100  |
| Ammonia (NH3)              | 8.62  | μg/Nm3  | GGMPL/SOP/AA/62 Issue No.02<br>August 01   | 400  |
| Benzene                    | BQL (QL=2.5)  | μg/m3   | IS 5182- Part 11   | 5  |
| Benzo(a) pyrene            | BQL (QL=0.5)  | ng/m3   | Is 5182- Part 12   | 1  |
| Carbon Monoxide (CO)       | 1.17  | mg/m3   | IS 5182- Part 10   | 4  |
| Nickel as Ni               | BQL (QL=5)  | ng/m3   | USEPA Method IO 3.4  | 20   |
| Arsenic as As              | BQL (QL=1)  | ng/m3   | USEPA Method IO 3.4  | 6  |
| Temperature                | 28  | °C  | GGMPL/SOP/MP/01  | NS   |
|                            | Particulate Matter (PM2.5)  Sulphur Dioxide (SO2)  Nitrogen Dioxide (NO2)  Ozone (O3)  Ammonia (NH3)  Benzene  Benzo(a) pyrene  Carbon Monoxide (CO)  Nickel as Ni  Arsenic as As | Particulate Matter (PM2.5)         31.66           Sulphur Dioxide (SO2)         9.08           Nitrogen Dioxide (NO2)         18.57           Ozone (O3)         BQL (QL=10)           Ammonia (NH3)         8.62           Benzene         BQL (QL=2.5)           Benzo(a) pyrene         BQL (QL=0.5)           Carbon Monoxide (CO)         1.17           Nickel as Ni         BQL (QL=5)           Arsenic as As         BQL (QL=1) | Particulate Matter (PM2.5)         31.66         μg/m3           Sulphur Dioxide (SO2)         9.08         μg/m3           Nitrogen Dioxide (NO2)         18.57         μg/m3           Ozone (O3)         BQL (QL=10)         μg/m3           Ammonia (NH3)         8.62         μg/Nm3           Benzene         BQL (QL=2.5)         μg/m3           Benzo(a) pyrene         BQL (QL=0.5)         ng/m3           Carbon Monoxide (CO)         1.17         mg/m3           Nickel as Ni         BQL (QL=5)         ng/m3           Arsenic as As         BQL (QL=1)         ng/m3 | Particulate Matter (PM2.5)         31.66         μg/m3         GGMPL/SOP/AA/60 Issue No.02 August 01           Sulphur Dioxide (SO2)         9.08         μg/m3         IS 5182-Part 2           Nitrogen Dioxide (NO2)         18.57         μg/m3         IS 5182- Part 6           Ozone (O3)         BQL (QL=10)         μg/m3         IS 5182- Part 9           Ammonia (NH3)         8.62         μg/Nm3         GGMPL/SOP/AA/62 Issue No.02 August 01           Benzene         BQL (QL=2.5)         μg/m3         IS 5182- Part 11           Benzo(a) pyrene         BQL (QL=0.5)         ng/m3         Is 5182- Part 12           Carbon Monoxide (CO)         1.17         mg/m3         IS 5182- Part 10           Nickel as Ni         BQL (QL=5)         ng/m3         USEPA Method IO 3.4           Arsenic as As         BQL (QL=1)         ng/m3         USEPA Method IO 3.4 |

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

Analyzed By Krima Solanki

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/03

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/903C/76C/V2/03 Laboratory Representative Ambient Air

Ambient Temperature

Near Haulage Road viewpoint Satisfactory

03/08/2023 Sampling Start Date: Sampling End Date: 04/08/2023 06/08/2023

Sample Receipt Date: Analysis start- End Date:

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

| 07/08/2 | 023-14/ | 08/2 | 023 |
|---------|---------|------|-----|
| 24      |         |      |     |

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 79             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5.0            | m/s   | GGMPL/SOP/MP/01:2020 | NS             |
|       |                   |                |       |                      |                |

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

Analyzed By Krima Solanki

**Authorized Signatory** Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/04

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/903C/76C/V2/04

Laboratory Representative

Ambient Air

Satisfactory

Near Mine Hospital Ambient Temperature Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 04/08/2023 06/08/2023 07/08/2023-14/08/2023

03/08/2023

24

25±5°C

| Sr.No  | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|--------|----------------------------|--------------|--------|--|----------------|
| 31.110 |                            |              |        |  | -              |
| 1      | Particulate Matter (PM10)  | 61.60        | µg/m3  | IS 5182- Part 23                         | 100            |
| 2      | Particulate Matter (PM2.5) | 32.91        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3      | Sulphur Dioxide (SO2)      | 10.52        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4      | Nitrogen Dioxide (NO2)     | 18.82        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5      | Ozone (O3)                 | BQL (QL=10)  | µg/m3  | IS 5182- Part 9                          | 100            |
| 6      | Ammonia (NH3)              | 11.49        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12     | Temperature                | 29           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Krima Solanki AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/04

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/903C/76C/V2/04

Laboratory Representative

Ambient Air

Near Mine Hospital Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

nours: 24 ing: 25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 79             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | μg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5.0            | m/s   | GGMPL/SOP/MP/01:2020 | NS             |

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

Analyzed By Krima Solanki AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/903C/76C/V2/05

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

03/08/2023

Source Noise

| Sr.No | Lab Id                     | Location                    | Time     | Unit     | Test Method | Reading | Norms |
|-------|----------------------------|-----------------------------|----------|----------|-------------|---------|-------|
| 1     | Lab/PN/903C/76             | Nr. Haulage Road View Point | Day Time | dB(A)Leq | IS 4758     | 62.1    | 75    |
| 2     | Lab/PN/903C/76<br>C/V2/05B | Nr. Mine Hospital           | Day Time | dB(A)Leq | IS 4758     | 55.5    | 75    |

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

Analyzed By Krima Solanki

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/904C/76D/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID:

Lab/PN/904C/76D/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Near Pit Office (DW)

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

03/08/2023

06/08/2023 07/08/2023 14/08/2023

GGMPL/WI/27A Sealed

Specification:

| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL         | PL               |
|-------|------------------------------|------------|------|--------------------------|------------|------------------|
| 1     | pH at 25 °C                  | 7.46       | -    | IS 3025-Part 11          | 6.5 to 8.5 | No<br>Relaxation |
| 2     | Alkalinity as CaCO3          | 146.00     | mg/L | APHA 23rd Edn 2320 B     | 200        | 600              |
| 3     | Calcium as Ca                | 48.90      | mg/L | APHA 23rd Edn 3500 Ca B  | 75         | 200              |
| 4     | Chloride                     | 66.98      | mg/L | IS 3025 -Part 32         | 250        | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5          | 15               |
| 6     | Fluoride (F)                 | 0.42       | mg/L | APHA 23rd Edn 4500 F D   | 1          | 1.5              |
| 7     | Magnesium as Mg              | 16.04      | mg/L | APHA 23rd Edn 3500 Mg B  | 30         | 100              |
| 8     | Odour                        | Agreeable  | -    | IS 3025 Part-5           | Agreeable  | Agreeable        |
| 9     | Sulphate                     | 29.58      | mg/L | APHA 23rd Edn 4500 SO4 E | 200        | 400              |
| 10    | Total Dissolved Solids       | 290.00     | mg/L | APHA 23rd Edn 2540 C     | 500        | 2000             |
| 11    | Total Hardness as CaCO3      | 188.00     | mg/L | APHA 23rd Edn 2340 C     | 200        | 600              |
| 12    | Total Suspended Solids (TSS) | 9.00       | 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 Krima Solanki

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/904C/76D/V2/01

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/904C/76D/V2/01 Laboratory Representative Sampling Date: Sample Receipt Date: Analysis Start Date:

03/08/2023 06/08/2023 07/08/2023

Sample Type: Sample Description:

Near Pit Office (DW)

Analysis End Date: Sampling Method:

14/08/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5L Satisfactory

Water

Packing:

Sealed

Specification:

| Sr.No | Parameters      | Results       | Unit | Test Method              | AL  | PL               |
|-------|-----------------|---------------|------|--------------------------|-----|------------------|
| 13    | Turbidity       | 1.58          | 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<br>Relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | 4.05          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>Relaxation |

AL & PL as per IS 10500.

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

Analyzed By

Krima Solanki



Authorized Signatory Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/904C/76D/V2/01A

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/904C/76D/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Near Pit Office (DW)

Sample Quantity:

Sample Condition:

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

03/08/2023

06/08/2023

07/08/2023

14/08/2023

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Krima Solanki



Authorized Signatory Payal Patel

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/904C/76D/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/904C/76D/V2/02

Laboratory Representative

Ambient Air Near Pit Office Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023

04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 53.88        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 27.91        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 8.64         | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 14.61        | µg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | 12.88        | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 12.93        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12    | Temperature                | 28           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Krima Solanki AHMEDABAD PY

Authorized Signatory Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/904C/76D/V2/02

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/904C/76D/V2/02

Laboratory Representative

Ambient Air Near Pit Office

Ambient Temperature

Satisfactory

Sampling Start Date: 03/08/2023 Sampling End Date: 04/08/2023

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| 13 Relative Humidity 80 % GGMPL/SOP/MP/01 NS       | Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|--|-------|-------------------|----------------|-------|----------------------|----------------|
|  | 13    | Relative Humidity | 80             | %     | GGMPL/SOP/MP/01      | NS             |
| 14 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4 1 | 14    | Lead              | BQL (QL=0.001) | μg/m3 | USEPA Method IO 3.4  | 1              |
| 15 Wind Speed 5.0 m/s GGMPL/SOP/MP/01:2020 NS      | 15    | Wind Speed        | 5.0            | m/s   | GGMPL/SOP/MP/01:2020 | NS             |

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

Analyzed By Krima Solanki

AHMEDABAD CO

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/904C/76D/V2/03

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

03/08/2023

Source Noise

| Sr.No | Lab Id                    | Location       | Time     | Unit     | Test Method | Reading | Norms |
|-------|---------------------------|----------------|----------|----------|-------------|---------|-------|
| 1     | Lab/PN/904C/76<br>D/V2/03 | Nr. Pit Office | Day Time | dB(A)Leq | IS 4758     | 68.8    | 75    |
|       |                           |                |          |          |             |         |       |

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/01

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



## SAMPLE DETAILS

Lab ID:

Lab/PN/905C/76E/V2/01

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

At Siding office (DW)

Sample Quantity:

3.5L

Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

03/08/2023

06/08/2023 07/08/2023 14/08/2023

GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| 1     | pH at 25 °C                  | 7.36       | -    | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 122.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 43.28      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 16.99      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.40       | mg/L | APHA 23rd Edn 4500 F D   | 1.0       | 1.5              |
| 7     | Magnesium as Mg              | 17.98      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  |      | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 15.40      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 212.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 148.00     | mg/L | APHA 23rd Edn 2340 C     | 200       | 600              |
| 12    | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 23rd Edn 2540 D     | NS        | NS               |

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah



Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/905C/76E/V2/01

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/905C/76E/V2/01

Sampling Date:

03/08/2023 06/08/2023

Sample Drawn By: Sample Type: Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

07/08/2023 14/08/2023

Sample Description:

At Siding office (DW)

Analysis End Date: Sampling Method:

14/08/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L Satisfactory

Packing:

Sealed

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 as Fe      | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.3 | No<br>relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | 3.76          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/01A

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/905C/76E/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

At Siding office (DW)

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Date:

03/08/2023 06/08/2023

Sample Receipt Date: Analysis Start Date:

07/08/2023 14/08/2023

Analysis End Date: Sampling Method:

14/08/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Ritu Shah



Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/02

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID:

Lab/PN/905C/76E/V2/02

Sampling Date:

03/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

06/08/2023

Sample Type:

Analysis Start Date:

07/08/2023

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

14/08/2023

Sample Quantity: Sample Condition: (GW) 3.5L

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing:

Sealed

Chacification

| 13.   |                              |            |      |                          | SI        | pecification:    |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
| 1     | pH at 25 °C                  | 7.49       |      | IS 3025-Part 11          | 6.5-8.5   | No<br>relaxation |
| 2     | Alkalinity as CaCO3          | 140.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 53.70      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 34.98      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.49       | mg/L | APHA 23rd Edn 4500 F D   | 1.0       | 1.5              |
| 7     | Magnesium as Mg              | 12.63      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  |      | IS 3025 Part-5           | Agreeable | Agreeable        |
| 9     | Sulphate                     | 17.45      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 272.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 186.00     | 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 Ritu Shah



**Authorized Signatory** Manish Kumawat

Page No: 1/2

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Report Number: GGMPL/PN/905C/76E/V2/02

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/905C/76E/V2/02

Sampling Date:

03/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

06/08/2023

Sample Type:

Analysis Start Date:

07/08/2023

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

14/08/2023

(GW) Sample Quantity: 3.5L

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 as Fe      | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.3 | No<br>relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | 0.51          | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>relaxation |

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/02A

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/905C/76E/V2/02

Sampling Date:

03/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

06/08/2023

Sample Type:

Analysis Start Date:

07/08/2023

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

14/08/2023

(GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L Satisfactory

Packing:

Sealed

Specification:

| Sr.No | Parameters*                | 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

Analyzed By Ritu Shah



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/03

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/905C/76E/V2/03

Laboratory Representative

Ambient Air Near Siding Office Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

03/08/2023 06/08/2023 06/08/2023

07/08/2023-14/08/2023 24

25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 63.84        | µg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 32.07        | µg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 13.51        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 17.08        | µg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | BQL (QL=10)  | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 8.62         | µg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12    | Temperature                | 29           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/03

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/905C/76E/V2/03 Laboratory Representative Ambient Air Near Siding Office Ambient Temperature Satisfactory

03/08/2023 Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

06/08/2023 06/08/2023 07/08/2023-14/08/2023 24

25±5°C Env. Cond.-Testing:

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 60             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 | NS             |
|       |                   |                |       |                      |                |

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Analyzed By Ritu Shah



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/04

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/905C/76E/V2/04

Laboratory Representative

Ambient Air Near Loading Area

Ambient Temperature Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 03/08/2023 04/08/2023 06/08/2023

07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 60.89        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 29.16        | µg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 13.32        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 18.61        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | 10.05        | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 11.20        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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)       | 1.11         | mg/m3  | IS 5182- Part 10                         | 4              |
| 10    | Nickel as Ni               | BQL (QL=5)   | ng/m3  | USEPA Method IO 3.4                      | 20             |
| 11    | Arsenic as As              | BQL (QL=1)   | ng/m3  | USEPA Method IO 3.4                      | 6              |
| 12    | Temperature                | 28           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Ritu Shah



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/04

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/905C/76E/V2/04 Laboratory Representative Ambient Air Near Loading Area Ambient Temperature Satisfactory

03/08/2023 Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

04/08/2023 06/08/2023 07/08/2023-14/08/2023

24 25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 59             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | μg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 | NS             |

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

Analyzed By Ritu Shah



**Authorized Signatory** Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/905C/76E/V2/05

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

03/08/2023

Source Noise

| Sr.No | Lab Id                     | Location          | Time     | Unit     | Test Method | Reading | Norms |
|-------|----------------------------|-------------------|----------|----------|-------------|---------|-------|
| 1     | Lab/PN/905C/76<br>E/V2/05A | Nr. Siding Office | Day Time | dB(A)Leq | IS 4758     | 61.3    | 75    |
| 2     | Lab/PN/905C/76<br>E/V2/05B | Nr. Loading Area  | Day Time | dB(A)Leq | IS 4758     | 62.5    | 75    |

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

Ritu Shah

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/01

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/923C/76F/V2/01 Laboratory Representative Sampling Date: Sample Receipt Date: 04/08/2023 07/08/2023

Sample Type:

Waste Water

Analysis Start Date: Analysis End Date: 08/08/2023 15/08/2023

Sample Description:

Boiler Water (Inlet) (WW) 3.5L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

| Sr.No | Parameters               | Results      | Unit | Test Method          | Norm |
|-------|--------------------------|--------------|------|----------------------|------|
| 1     | pH at 25 °C              | 7.35         | -    | IS 3025- Part 11     | -    |
| 2     | Total Suspended Solids   | 19.00        | mg/L | APHA 23rd Edn 2540 D |      |
| 3     | Oil and Grease           | BQL (QL=2)   | mg/L | IS 3025- Part 39     | -    |
| 4     | Chemical Oxygen Demand   | 75.00        | mg/L | APHA 23rd Edn 5220 B | -    |
| 5     | Dissolved Oxygen         | 3.47         | mg/L | IS 3025- Part 38     | -    |
| 6     | BOD at 27 o C for 3 days | 24.00        | mg/L | IS 3025- Part 44     |      |
| 7     | Manganese as Mn          | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | 5    |

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

Analyzed By Jhanvi Chhasatiya



Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/02

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/923C/76F/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

RO Water Nr. Admin Office (DW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

04/08/2023

07/08/2023 08/08/2023

15/08/2023 GGMPL/WI/27A

Sealed

Specification:

| Sr.No | Parameters                   | Results    | Unit | Test Method              | AL        | PL               |
|-------|------------------------------|------------|------|--------------------------|-----------|------------------|
| 1     | pH at 25 °C                  | 7.35       | -    | IS 3025-Part 11          | 6.5-8.5   | No<br>Relaxation |
| 2     | Alkalinity as CaCO3          | 114.00     | mg/L | APHA 23rd Edn 2320 B     | 200       | 600              |
| 3     | Calcium as Ca                | 27.25      | mg/L | APHA 23rd Edn 3500 Ca B  | 75        | 200              |
| 4     | Chloride                     | 28.99      | mg/L | IS 3025 -Part 32         | 250       | 1000             |
| 5     | Colour                       | BQL (QL=1) | CU   | IS 3025 Part-4           | 5         | 15               |
| 6     | Fluoride (F)                 | 0.11       | mg/L | APHA 23rd Edn 4500 F D   | 1.0       | 1.5              |
| 7     | Magnesium as Mg              | 12.64      | mg/L | APHA 23rd Edn 3500 Mg B  | 30        | 100              |
| 8     | Odour                        | Agreeable  |      | IS 3025 Part-5           | Agreeable | e Agreeable      |
| 9     | Sulphate                     | 23.21      | mg/L | APHA 23rd Edn 4500 SO4 E | 200       | 400              |
| 10    | Total Dissolved Solids       | 196.00     | mg/L | APHA 23rd Edn 2540 C     | 500       | 2000             |
| 11    | Total Hardness as CaCO3      | 120.00     | mg/L | APHA 23rd Edn 2340 C     | 200       | 600              |
| 12    | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 23rd Edn 2540 D     | NS        | NS               |

AL and PL as per IS 10500

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

Analyzed By Jhanvi Chhasatiya ANI

**Authorized Signatory** Payal Patel

P.B.Pox

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/02

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907



### SAMPLE DETAILS

Lab ID:

Lab/PN/923C/76F/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

RO Water Nr. Admin Office (DW)

3.5L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

08/08/2023 15/08/2023

GGMPL/WI/27A

04/08/2023 07/08/2023

Sealed Packing:

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 as Fe      | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.3 | No<br>Relaxation |
| 15    | Manganese as Mn | BQL (QL=0.05) | mg/L | APHA 23rd Edn 3120 B     | 0.1 | 0.3              |
| 16    | Nitrate         | BQL (QL=0.5)  | mg/L | APHA 23rd Edn 4500 NO3 B | 45  | No<br>Relaxation |

AL and PL as per IS 10500

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

Analyzed By Jhanvi Chhasatiya



**Authorized Signatory** Payal Patel

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Report Number: GGMPL/PN/923C/76F/V2/02A

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

SAMPLE DETAILS

Lab ID:

Lab/PN/923C/76F/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

RO Water Nr. Admin Office (DW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

04/08/2023

07/08/2023

Sample Receipt Date: Analysis Start Date:

08/08/2023

Analysis End Date:

15/08/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Reporting Date: 16/08/2023

| Sr.No | Parameters*                | 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 and PL as per IS 10500

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

Analyzed By Jhanvi Chhasatiya

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/03

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/923C/76F/V2/03

Laboratory Representative

Waste Water

Sample Description: Sample Quantity: Drainage Water (Near Admin Office) (WW)

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023 08/08/2023

15/08/2023 GGMPL/WI/27A

Sealed

| Sr.No | Parameters               | Results      | Unit | Test Method          | Norm |
|-------|--------------------------|--------------|------|----------------------|------|
| 1     | pH at 25 °C              | 7.25         | 14   | IS 3025- Part 11     | -    |
| 2     | Total Suspended Solids   | 24.00        | mg/L | APHA 23rd Edn 2540 D |      |
| 3     | Oil and Grease           | BQL (QL=2)   | mg/L | IS 3025- Part 39     | -    |
| 4     | Chemical Oxygen Demand   | 80.00        | mg/L | APHA 23rd Edn 5220 B |      |
| 5     | Dissolved Oxygen         | 4.13         | mg/L | IS 3025- Part 38     | -    |
| 6     | BOD at 27 o C for 3 days | 24.00        | mg/L | IS 3025- Part 44     |      |
| 7     | Manganese as Mn          | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | -    |
|       |                          |              |      |                      |      |

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

Analyzed By Jhanvi Chhasatiya AHMEDABAD VY

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/03

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID:

Lab/PN/923C/76F/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Drainage Water (Near Admin Office) (WW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

04/08/2023

07/08/2023 08/08/2023

15/08/2023 GGMPL/WI/27A

Sealed

| Sr.No | Parameters               | Results      | Unit | Test Method          | Norm |
|-------|--------------------------|--------------|------|----------------------|------|
| 1     | pH at 25 °C              | 7.25         | 72   | IS 3025- Part 11     | -    |
| 2     | Total Suspended Solids   | 24.00        | mg/L | APHA 23rd Edn 2540 D | -    |
| 3     | Oil and Grease           | BQL (QL=2)   | mg/L | IS 3025- Part 39     | -    |
| 4     | Chemical Oxygen Demand   | 80.00        | mg/L | APHA 23rd Edn 5220 B | -    |
| 5     | Dissolved Oxygen         | 4.13         | mg/L | IS 3025- Part 38     | -    |
| 6     | BOD at 27 o C for 3 days | 24.00        | mg/L | IS 3025- Part 44     |      |
| 7     | Manganese as Mn          | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | -    |
|       |                          |              |      |                      |      |

NS=Not Specified, BQL=Below Quantification Limit, C' = Quantification Limit

Analyzed By Jhanvi Chhasatiya

Authorized Signatory Payal Patel

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/04

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/923C/76F/V2/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

ETP Inlet (WW)

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023 08/08/2023

15/08/2023 GGMPL/WI/27A

Sealed

| Sr.No | Parameters               | Results      | Unit | Test Method          | Norm       |
|-------|--------------------------|--------------|------|----------------------|------------|
| 1     | pH at 25 °C              | 7.21         | -    | IS 3025- Part 11     | <i>a</i> - |
| 2     | Total Suspended Solids   | 26.00        | mg/L | APHA 23rd Edn 2540 D |            |
| 3     | Oil and Grease           | BQL (QL=2)   | mg/L | IS 3025- Part 39     | -          |
| 4     | Chemical Oxygen Demand   | 70.00        | mg/L | APHA 23rd Edn 5220 B |            |
| 5     | Dissolved Oxygen         | 3.20         | mg/L | IS 3025- Part 38     | -          |
| 6     | BOD at 27 o C for 3 days | 21.00        | mg/L | IS 3025- Part 44     |            |
| 7     | Manganese as Mn          | BQL (QL=0.1) | mg/L | APHA 23rd Edn 3120 B | -          |
|       |                          |              |      |                      |            |

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

Analyzed By Jhanvi Chhasatiya AMMEDABAD S CHAMPS AND S CHAMPS

Authorized Signatory Payal Patel

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/05

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/923C/76F/V2/05

Laboratory Representative Ambient Air

Near Admin Office Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 04/08/2023 05/08/2023

07/08/2023

08/08/2023-15/08/2023 24

25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 66.96        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2.    | Particulate Matter (PM2.5) | 34.99        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 12.15        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 18.11        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | 14.46        | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 10.06        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12    | Temperature                | 26           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Jhanvi Chhasatiya HAMMEDABAD PV

Authorized Signatory Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/05

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/923C/76F/V2/05

Laboratory Representative Ambient Air

Near Admin Office Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: 07/08/2023

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

04/08/2023 05/08/2023

08/08/2023-15/08/2023

25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 60             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | μg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 |                |
|       |                   |                |       |                      |                |

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

Analyzed By Jhanvi Chhasatiya

Authorized Signatory Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/06

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/923C/76F/V2/06

Laboratory Representative

Ambient Air

Near infront of MCC Room Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

08/08/2023-15/08/2023

04/04/2023

05/08/2023

07/08/2023

24

Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 66.25        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 32.08        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 13.03        | µg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 20.31        | µg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | BQL (QL=10)  | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 10.06        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12    | Temperature                | 28           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Jhanvi Chhasatiya

**Authorized Signatory** Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/06

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/923C/76F/V2/06

Laboratory Representative

Ambient Air

Near infront of MCC Room Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

04/04/2023

05/08/2023 07/08/2023

08/08/2023-15/08/2023

24 25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 58             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 |                |
|       |                   |                |       |                      |                |

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

Analyzed By Jhanvi Chhasatiya AIMEDABAD W

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/07

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/923C/76F/V2/07 Laboratory Representative Ambient Air Near Shift incharge Room

Near Shift incharge Room Ambient Temperature Satisfactory Sampling Start Date: 04/08/2023 Sampling End Date: 05/08/2023 Sample Receipt Date: 07/08/2023

Analysis start- End Date: 08/08/2023-15/08/2023Total Sampling hours: 24Env. Cond.-Testing:  $25\pm5^{\circ}$ C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 63.44        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 35.41        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 15.29        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 21.25        | µg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | BQL (QL=10)  | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 8.62         | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12    | Temperature                | 28           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Analyzed By Jhanvi Chhasatiya ANMEDABAD S

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/07

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



07/08/2023

08/08/2023-15/08/2023

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/923C/76F/V2/07

Laboratory Representative

Ambient Air

Near Shift incharge Room Ambient Temperature

Satisfactory

04/08/2023 Sampling Start Date: Sampling End Date: 05/08/2023

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing: 25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 59             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | μg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 | NS             |
|       |                   |                |       |                      |                |

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

Analyzed By Jhanvi Chhasatiya

**Authorized Signatory** Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/08

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/923C/76F/V2/08

Laboratory Representative

Ambient Air

Near Mine Workshop Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

04/08/2023

05/08/2023 07/08/2023

08/08/2023-15/08/2023

24 25±5°C

| Sr.No | Parameters                 | Results      | Unit   | Test Method                              | NAAQ Standards |
|-------|----------------------------|--------------|--------|--|----------------|
| 1     | Particulate Matter (PM10)  | 64.68        | μg/m3  | IS 5182- Part 23                         | 100            |
| 2     | Particulate Matter (PM2.5) | 33.33        | μg/m3  | GGMPL/SOP/AA/60 Issue No.02<br>August 01 | 60             |
| 3     | Sulphur Dioxide (SO2)      | 14.69        | μg/m3  | IS 5182-Part 2                           | 80             |
| 4     | Nitrogen Dioxide (NO2)     | 23.77        | μg/m3  | IS 5182- Part 6                          | 80             |
| 5     | Ozone (O3)                 | BQL (QL=10)  | μg/m3  | IS 5182- Part 9                          | 100            |
| 6     | Ammonia (NH3)              | 12.93        | μg/Nm3 | GGMPL/SOP/AA/62 Issue No.02<br>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              |
| 12    | Temperature                | 29           | °C     | GGMPL/SOP/MP/01                          | NS             |

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

Thank

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Authorized Signatory Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/08

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023



TC-707

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/923C/76F/V2/08

Laboratory Representative

Ambient Air

Near Mine Workshop Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 04/08/2023

05/08/2023 07/08/2023

08/08/2023-15/08/2023

24

25±5°C

| Sr.No | Parameters        | Results        | Unit  | Test Method          | NAAQ Standards |
|-------|-------------------|----------------|-------|----------------------|----------------|
| 13    | Relative Humidity | 60             | %     | GGMPL/SOP/MP/01      | NS             |
| 14    | Lead              | BQL (QL=0.001) | µg/m3 | USEPA Method IO 3.4  | 1              |
| 15    | Wind Speed        | 5              | m/s   | GGMPL/SOP/MP/01:2020 |                |
|       |                   |                |       |                      |                |

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

Analyzed By Jhanvi Chhasatiya AHMEDABAD SPING AHMEDAB SPING

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/09

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 16/08/2023

### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

04/08/2023

Source Noise

| Sr.No | Lab Id                     | Location                | Time     | Unit     | Test Method | Reading | Norms |
|-------|----------------------------|-------------------------|----------|----------|-------------|---------|-------|
| 1     | Lab/PN/923C/76<br>F/V2/09A | Nr. Admin Office        | Day Time | dB(A)Leq | IS 4758     | 58.3    | 75    |
| 2     | Lab/PN/923C/76<br>F/V2/09B | In front of MCC Room    | Day Time | dB(A)Leq | IS 4758     | 61.2    | 75    |
| 3     | Lab/PN/923C/76<br>F/V2/09C | Nr. Shift Incharge Room | Day Time | dB(A)Leq | IS 4758     | 57.8    | 75    |
| 4     | Lab/PN/923C/76<br>F/V2/09D | Nr. Plant Workshop      | Day Time | dB(A)Leq | IS 4758     | 643     | 75    |

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

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## **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/923C/76F/V2/10

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/923C/76F/V2/10

Sampling Date:

04/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

07/08/2023

Sample Type:

Stack

Analysis start- End Date:

08/08/2023-15/08/2023

Stack Height & Dia (m):

30 & 0.59

Stack Temperature (°C):

130 11.46

Stack Attached To:

CFB Boiler

Stack gas velocity (m/sec):

. . . . . . . .

Fuel Used:

Coal

Volume of Air Sampled in NM3: 0.8677

| Sr.No | Parameters         | Results | Unit   | Test Method      | Norms |
|-------|--------------------|---------|--------|------------------|-------|
| 1     | Oxides of Nitrogen | 15.53   | ppm    | IS 11255- Part 7 | =     |
| 2     | Particulate Matter | 37.39   | mg/Nm³ | IS 11255- Part 1 |       |
| 3     | Sulphur Dioxides   | 6.76    | ppm    | IS 11255- Part 2 | -     |

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