

- ISO 45001:2018 (OHSAS) Certified Laboratory.
- Recognized by MoEF & CC

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2958

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2958/2 |
| M/s MOIL LIMITED, Gumgaon Manganese Mines L2=1.330 Ha Site, Dist:- Nagpur (M.S) | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Check Post (Main Gate) |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|-------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 13.1 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 19.0 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 71.2 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 36.8 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 4.6 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.462 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 5.0 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

REMARKS/OBSERVATIONS:

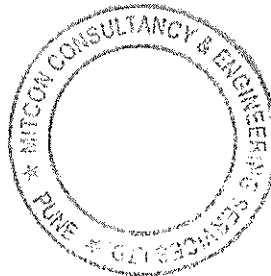
- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Kadambari

Checked By

(Mrs.Kadambari Deshmukh)




Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2958

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2958/3 |
| M/s MOIL LIMITED, Gumgaon Manganese Mines L2=1.330 Ha Site, Dist- Nagpur (M.S). | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Gumgaon Village |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|--------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/ hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 11.8 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 16.0 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 63.5 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 31.7 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 3.9 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.342 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.3 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

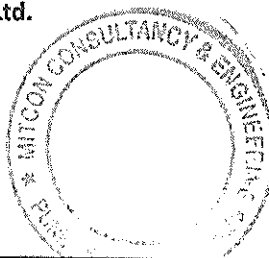
REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



Jadhav

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2958

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2958/4 |
| M/s MOIL LIMITED, Gumgaon Manganese Mines L2=1.330 Ha Site, Dist:-Nagpur (M.S). | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Noise |
| | Monitoring Done By | MITCON |

READINGS

| Sr. No. | Test Location | Unit | Readings |
|---------|------------------------------|-------|----------|
| 01 | Near Check Post (Main Gate) | dB(A) | 67.9 |
| 02 | Gumgaon Village | dB(A) | 52.8 |

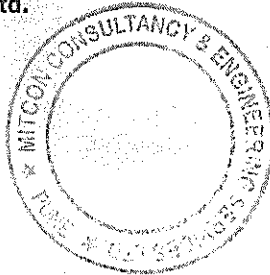
REMARKS / OBSERVATIONS:

Limits: The Maharashtra Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

For MITCON Consultancy & Engineering Services Ltd.


Checked By

(Mrs. Kadambari Deshmukh)





Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2958

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|--|------------------------|--------------------------------|
| M/s MOIL LIMITED, Gumgaon Manganese Mines L2=1.330 Ha Site, Dist:-Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2958/1 |
| | Name of Sample | Ground Water |
| | Sample Details | Old Office Bore well water |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

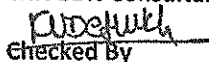
ANALYSIS RESULTS

| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.21 | | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | < 5 | mg/l | N.S | APHA 2540 D, 2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | < 1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 230.0 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO3 | 110.25 | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | 35.12 | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | 10.25 | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | < 0.1 | mg/l | < 0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO3 | 105.65 | Mg/l | < 200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | < 0.1 | Mg/l | < 1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | 23.12 | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO4 | 10.12 | mg/l | ≤ 200 | APHA 4500 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | < 0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO3 | 7.13 | mg/l | ≤ 45 | APHA 4500 NO3-B, 4-127 23rd Ed 2017 |
| 15 | E.coli | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Coliform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | < 5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Aggreable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

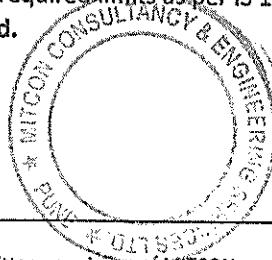
REMARKS / OBSERVATIONS:

- The above water sample is complying with required limits as per IS 10500:2012.

For MITCON Consultancy & Engineering Services Ltd.

Checked by 

(Mrs. Kadambari Deshmukh)





Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2501

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address M/s MOIL LIMITED, Gumgaon Manganese Mines L3=35.970 Ha Site, Dist:- Nagpur (M.S) | Reference No. | MITCON/2022-23/February/2501/4 |
| | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | High Speed Vertical Shaft |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|-------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 13.5 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 19.0 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 69.3 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 35.0 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 4.2 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.376 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.7 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

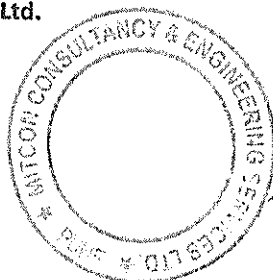
REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Sandeep
Authorized Signatory

Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2501

Issue Date:28/02/2023

| | | |
|--|--------------------|--------------------------------|
| Client's Name & Address M/s MOIL LIMITED, Gungaon Manganese Mines L3=35.970 Ha Site, Dist:- Nagpur (M.S). | Reference No. | MITCON/2022-23/February/2501/6 |
| | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Khapa Village |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|--------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/ hrs.(Avg) | NW |


RESULT

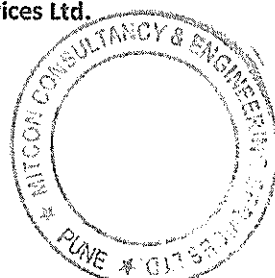
| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 12.7 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 16.8 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 67.4 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 34.9 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 3.7 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.340 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.0 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |


REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs.Kadambari Deshmukh)




Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2501

Issue Date:28/02/2023

| | | |
|--|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2501/7 |
| M/s MOIL LIMITED, Gungaon Manganese Mines L3=35.970 Ha Site, Dist:-Nagpur (M.S). | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Noise |
| | Monitoring Done By | MITCON |

READINGS

| Sr. No. | Test Location | Unit | Readings |
|---------|--------------------------------|-------|----------|
| 01 | Near High speed vertical shaft | dB(A) | 65.9 |
| 02 | Tigai Village | dB(A) | 51.0 |
| 03 | Khapa Village | dB(A) | 53.8 |

REMARKS / OBSERVATIONS:

Limits: The Maharashtra Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

For MITCON Consultancy & Engineering Services Ltd.

Kadambhari
Checked By
(Mrs. Kadambhari Deshmukh)



JV
Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2501

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Gumgaon Manganese Mines L3=35.970 Ha Site, Dist:-Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2501/1 |
| | Name of Sample | Ground Water |
| | Sample Details | Khapa Village Handpump |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

ANALYSIS RESULTS

| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.20 | - | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | 10.2 | mg/l | N.S | APHA 2540 D, 2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | < 1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 220.4 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO3 | | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | < 0.1 | mg/l | < 0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO3 | | Mg/l | < 200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | < 0.1 | Mg/l | < 1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO4 | | mg/l | ≤ 200 | APHA 4500 -SO4 -E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | < 0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO3 | | mg/l | ≤ 45 | APHA 4500 NO3-B, 4-127 23rd Ed 2017 |
| 15 | E.coli | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Coliform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | < 5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Aggreable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

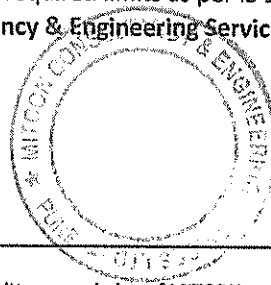
REMARKS / OBSERVATIONS:

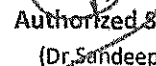
- The above water sample is complying with required limits as per IS 10500:2012.

Checked By 

(Mrs. Kadambari Deshmukh)

For MITCON Consultancy & Engineering Services Ltd.




 Authorized Signatory
 (Dr. Sandeep Jadhav)
 Senior Vice President

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2501

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Gumgaon Manganese Mines L3=35.970 Ha Site, Dist:-Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2501/2 |
| | Name of Sample | Waste Water |
| | Sample Details | STP Outlet |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

ANALYSIS RESULTS

| Sr. No. | Characteristic | Results | Unit | Permissible Limit as per Consent Condition | Test Methods |
|---------|------------------------|---------|------|--|---------------------------------------|
| 01 | pH at 25°C | 7.19 | | 5.5 to 9.0 | APHA 4500 H+ A, 4-95, 23rd Ed. 2017 |
| 02 | Dissolved Oxygen | 3.5 | mg/l | -- | IS: 3025 Part 38 |
| 03 | Chemical Oxygen Demand | 75.5 | mg/l | 250 | APHA 5220 C,5-20 to 5-21 23rd Ed 2017 |
| 04 | Biochemical Oxygen | 22.2 | mg/l | 30 | IS :3025 (Part 44) |
| 05 | Total suspended solids | 30.4 | mg/l | 100 | APHA 2540 D,2-70 to 2-71 23rd Ed 2017 |
| 06 | Oil and grease | < 5.0 | mg/l | 10 | APHA 5520 B,5-42 to 5-43 23rd Ed 2017 |
| 07 | Manganese | 0.39 | mg/l | 2 | APHA 3111 B,3-18 to 3-21 23rd Ed 2017 |

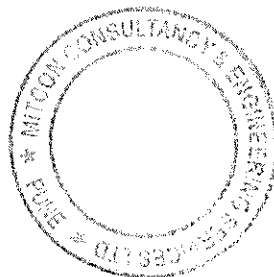
REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.



Checked By

(Mrs. Kadambari Deshmukh)




Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2501

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Gumgaon Manganese Mines L3=35.970 Ha Site, Dist:-Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2501/3 |
| | Name of Sample | Waste Water |
| | Sample Details | Mine Discharge Water |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

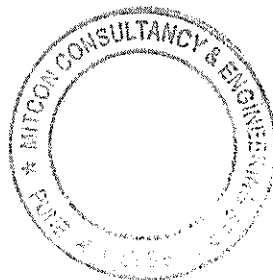
ANALYSIS RESULTS


| Sr. No. | Characteristic | Results | Unit | Permissible Limit as per Consent Condition | Test Methods |
|---------|------------------------|---------|------|--|---|
| 01 | pH at 25°C | 7.21 | - | 5.5 to 9.0 | APHA 4500 H+ A, 4-95, 23rd Ed. 2017 |
| 02 | Dissolved Oxygen | 3.3 | mg/l | -- | IS: 3025 Part 38 |
| 03 | Chemical Oxygen Demand | 51.4 | mg/l | 250 | APHA 5220 C,5-20 to 5-21 23 rd Ed 2017 |
| 04 | Biochemical Oxygen | 18.2 | mg/l | 30 | IS:3025 (Part 44) |
| 05 | Total suspended solids | 26.3 | mg/l | 100 | APHA 2540 D,2-70 to 2-71 23 rd Ed 2017 |
| 06 | Oil and grease | < 5.0 | mg/l | 10 | APHA 5520 B,5-42 to 5-43 23 rd Ed 2017 |
| 07 | Manganese | 0.38 | mg/l | 2 | APHA 3111 B,3-18 to 3-21 23 rd Ed 2017 |

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2105

Issue Date:28/02/2023

| | | |
|--|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2105/4 |
| M/s MOIL LIMITED, | Date of Monitoring | 21/02/2023 |
| Gumgaon Manganese Mines L1=48.596 Ha Site, Dist- Nagpur (M.S) | Type of Monitoring | Ambient Air |
| | Test Location | Near Pit Office |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|-------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 13.0 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 19.2 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 70.2 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 35.4 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 4.5 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.394 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.7 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

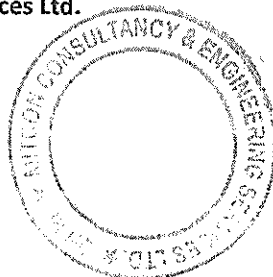
REMARKS/OBSERVATIONS:

- > All above results are within National Ambient Air Quality standards.
- > BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.


Checked By

(Mrs.Kadambari Deshmukh)





Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2105

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address M/s MOIL LIMITED, Gumgaon Manganese Mines L1=48.596 Ha Site, Dist- Nagpur (M.S). | Reference No. | MITCON/2022-23/February/2105/5 |
| | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Work Shop |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|--------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/ hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 12.7 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 18.0 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 65.8 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 33.5 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 4.0 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.381 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.3 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

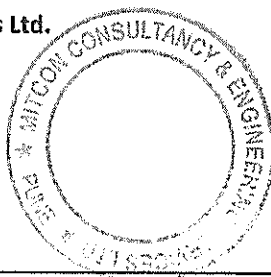
REMARKS/OBSERVATIONS:

- > All above results are within National Ambient Air Quality standards.
- > BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



[Signature]

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2105

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address M/s MOIL LIMITED, Gumgaon Manganese Mines L1=48.596 Ha Site, Dist- Nagpur (M.S). | Reference No. | MITCON/2022-23/February/2105/6 |
| | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Crushing Plant |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|-------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 13.2 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 19.4 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 72.7 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 37.8 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 4.7 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.424 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.8 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.


 Checked By

(Mrs.Kadambari Deshmukh)





Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2105

Issue Date:28/02/2023

| | | |
|--|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2105/7 |
| M/s MOIL LIMITED, Gumgaon Manganese Mines L1=48.596 Ha Site, Dist:-Nagpur (M.S). | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Noise |
| | Monitoring Done By | MITCON |


READINGS

| Sr. No. | Test Location | Unit | Readings |
|---------|-------------------------------|-------|----------|
| 01 | Near Cable Bottling operation | dB(A) | 68.0 |
| 02 | Jack Hammer Drill Machine | dB(A) | 71.5 |
| 03 | Vertical Fan | dB(A) | 65.9 |


REMARKS / OBSERVATIONS:

Limits: The Maharashtra Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2105

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Gungaon Manganese Mines L1=48.596 Ha Site, Dist:-Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2105/1 |
| | Name of Sample | Ground Water |
| | Sample Details | Officer colony Bore well water |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

ANALYSIS RESULTS

| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.12 | | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | 10.0 | mg/l | N.S | APHA 2540 D, 2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | < 1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 245.6 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO3 | 119.37 | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | 41.02 | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | 13.44 | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | < 0.1 | mg/l | < 0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO3 | 104.22 | Mg/l | < 200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | < 0.1 | Mg/l | < 1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | 45.13 | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO4 | 12.22 | mg/l | ≤ 200 | APHA 4500 -SO4 -E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | < 0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO3 | 2.98 | mg/l | ≤ 45 | APHA 4500 NO3-B, 4-127 23rd Ed 2017 |
| 15 | E.coli | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Collform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | < 5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Aggreable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

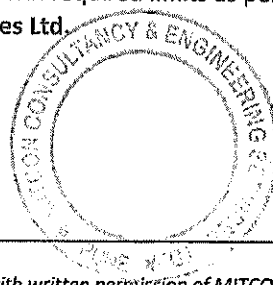
REMARKS / OBSERVATIONS:

- The above water sample is complying with required limits as per IS 10500:2012.

For MITCON Consultancy & Engineering Services Ltd

Checked By 

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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Quarter January- February- March 2023**Test Report**

Report Number : MITCON/2022-23/February/2105

Issue Date:28/02/2023


| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Gumgaon Manganese Mines L1=48.596 Ha Site, Dist:-Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2105/2 |
| | Name of Sample | Waste Water |
| | Sample Details | Pit water Underground source |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| End Date of Analysis | 28/02/2023 | |

ANALYSIS RESULTS

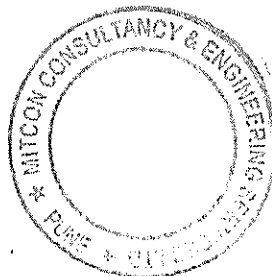
| Sr. No. | Characteristic | Results | Unit | Permissible Limit as per Consent Condition | Test Methods |
|---------|------------------------|---------|------|--|---|
| 01 | pH at 25°C | 7.22 | - | 5.5 to 9.0 | APHA 4500 H+ A, 4-95, 23rd Ed. 2017 |
| 02 | Dissolved Oxygen | 3.6 | mg/l | -- | IS: 3025 Part 38 |
| 03 | Chemical Oxygen Demand | 75.4 | mg/l | 250 | APHA 5220 C,5-20 to 5-21 23 rd Ed 2017 |
| 04 | Biochemical Oxygen | 22.4 | mg/l | 30 | IS :3025 (Part 44) |
| 05 | Total suspended solids | 38.6 | mg/l | 100 | APHA 2540 D,2-70 to 2-71 23 rd Ed 2017 |
| 06 | Oil and grease | < 5 | mg/l | 10 | APHA 5520 B,5-42 to 5-43 23 rd Ed 2017 |
| 07 | Manganese | 0.41 | mg/l | 2 | APHA 3111 B,3-18 to 3-21 23 rd Ed 2017 |

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.


Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2105

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Gumgaon Manganese Mines LI=48.596 Ha Site, Dist:-Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2105/3 |
| | Name of Sample | Ground water |
| | Sample Details | Staff Quarter Bore well water |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

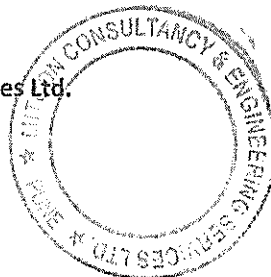
ANALYSIS RESULTS

| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.23 | - | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | < 5.0 | mg/l | N.S | APHA 2540 D, 2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | < 1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 320.2 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO3 | 150.42 | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | 32.40 | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | 12.20 | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | < 0.1 | mg/l | < 0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO3 | 132.14 | Mg/l | < 200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | < 0.1 | Mg/l | < 1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | 24.25 | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO4 | 31.67 | mg/l | ≤ 200 | APHA 4500 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | < 0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO3 | 5.23 | mg/l | ≤ 45 | APHA 4500 NO3-B, 4-127 23rd Ed 2017 |
| 15 | E.coli | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Coliform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | < 5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Agreeable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By
(Mrs. Kadambari Deshmukh)



(Signature)

Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2198/5 |
| M/s MOIL LIMITED, Rajna Ramdongri Gumgaon Sand Lease, Dist:- Nagpur (M.S) | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Rest House |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|-------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 11.5 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 16.2 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 63.8 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 30.4 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 3.9 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.328 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.0 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

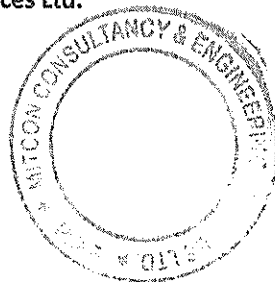
REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.



(Mrs.Kadambari Deshmukh)



Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| | | |
|--|---------------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2198/6 |
| M/s MOIL LIMITED, Rajna Ramdongri Gumgaon Sand Lease, Dist:- Nagpur (M.S). | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Sand Plant |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|--------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/ hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 13.2 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 18.8 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 66.5 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 32.4 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 4.0 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.349 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.3 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

REMARKS/OBSERVATIONS:

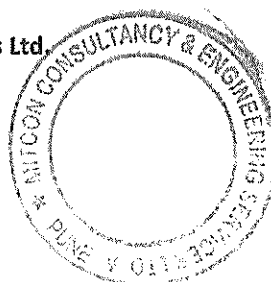
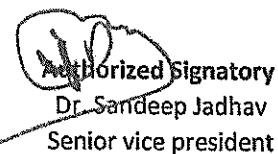
- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.



Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| | | |
|--|--------------------|--------------------------------|
| Client's Name & Address M/s MOIL LIMITED, Rajna Ramdongri Gungaoon Sand Lease, Dist:- Nagpur (M.S). | Reference No. | MITCON/2022-23/February/2198/7 |
| | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Sand Lease Area |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|-------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/hrs.(Avg) | NW |

RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 12.4 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 16.5 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 58.2 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 26.7 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 3.3 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.324 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 3.5 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

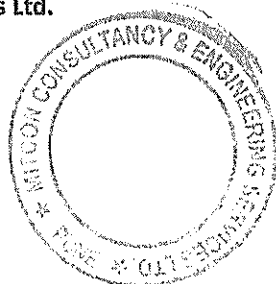
REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL:- Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory

Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| | | |
|--|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2198/8 |
| M/s MOIL LIMITED, Rajna Ramdongri Gumgaon Sand Lease, Dist:- Nagpur (M.S). | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Air |
| | Test Location | Near Water Filtration Plant |
| | Monitoring Done By | MITCON |
| | Date of Analysis | 23/02/2023 |

OBSERVATION

| Ambient Temp. °C | Dry Bulb Temp. °C | Wet Bulb Temp. °C | Relative Humidity % RH | Sampling Duration In Min | Rainfall (mm) | Wind Velocity | Wind Direction |
|------------------|-------------------|-------------------|------------------------|--------------------------|---------------|-------------------|----------------|
| 33 | 33 | 20 | 15 | 1440 | 0.0 | 13.0 km/hrs.(Avg) | NW |

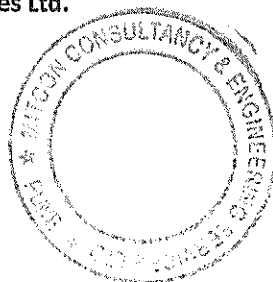
RESULT

| Sr. No. | Description | Unit | Results | CPCB standard | Test Method |
|---------|---|--------------------|---------|---------------|-------------------|
| 01 | Sulphur Dioxide (SO ₂) | µg/M ³ | 13.1 | ≤80 | IS 5182(Part 2) |
| 02 | Oxides of Nitrogen (NO ₂) | µg/M ³ | 18.5 | ≤ 80 | IS 5182(Part 6) |
| 03 | Particulate Matter PM ₁₀ micron | µg/M ³ | 65.0 | ≤ 100 | IS 5182 (Part 23) |
| 04 | Particulate Matter PM _{2.5} micron | µg/M ³ | 31.9 | ≤ 60 | USEPA 40 CFRCH |
| 05 | Ozone (O ₃) | µg/M ³ | 4.1 | ≤ 100 | IS 5182 |
| 06 | Lead (Pb) | µg/M ³ | BDL | ≤ 1.0 | APHA - AAS |
| 07 | Carbon Monoxide (CO) | mg/M ³ | 0.356 | ≤ 2.0 | IS 5182 |
| 08 | Ammonia (NH ₃) | µg/M ³ | 4.5 | ≤ 400 | APHA - 401 |
| 09 | Benzene (C ₆ H ₆) | µg/M ³ | BDL | ≤ 5 | IS 5182 |
| 10 | Benzo(a)Pyrene (BaP) | ng/ M ³ | BDL | ≤ 1 | IS 5182 |
| 11 | Arsenic (As) | ng/ M ³ | BDL | ≤ 6 | APHA - AAS |
| 12 | Nickel (Ni) | ng/ M ³ | BDL | ≤ 20 | APHA - AAS |

REMARKS/OBSERVATIONS:

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs.Kadambari Deshmukh)

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| | | |
|---|--------------------|--------------------------------|
| Client's Name & Address | Reference No. | MITCON/2022-23/February/2198/9 |
| M/s MOIL LIMITED, Rajna Ramdongri Gungaoon Sand Lease, Dist:- Nagpur (M.S). | Date of Monitoring | 21/02/2023 |
| | Type of Monitoring | Ambient Noise |
| | Monitoring Done By | MITCON |

READINGS

| Sr. No. | Test Location | Unit | Readings |
|---------|-----------------------------|-------|----------|
| 01 | Near Rest House | dB(A) | 51.0 |
| 02 | Near Sand Lease Area | dB(A) | 52.6 |
| 03 | Near Sand Plant | dB(A) | 56.8 |
| 04 | Near Water Filtration Plant | dB(A) | 59.7 |

REMARKS / OBSERVATIONS:

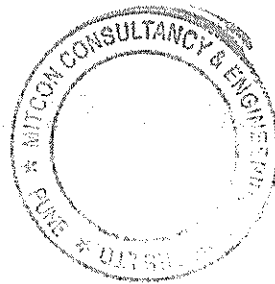
Limits: The Maharashtra Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

For MITCON Consultancy & Engineering Services Ltd.

Kadambari

Checked By

(Mrs. Kadambari Deshmukh)



Sandeep

Authorized Signatory

Dr. Sandeep Jadhav

(Senior Vice President)

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Rajna Ramdongri Gungaon Sand Lease, Dist:- Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2198/1 |
| | Name of Sample | Ground Water |
| | Sample Details | Rest House Bore well water |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

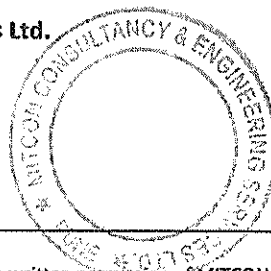
ANALYSIS RESULTS

| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.21 | - | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | < 5 | mg/l | N.S | APHA 2540 D,2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | < 1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 235.7 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO ₃ | 113.24 | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | 44.20 | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | 11.26 | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | < 0.1 | mg/l | < 0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO ₃ | 108.62 | mg/l | < 200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | < 0.1 | Mg/l | < 1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | 23.62 | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO ₄ | 16.52 | mg/l | ≤ 200 | APHA 4500 -SO ₄ - -E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | < 0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO ₃ | 7.32 | mg/l | ≤ 45 | APHA 4500 NO ₃ -B, 4-127 23rd Ed 2017 |
| 15 | E.coli | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Coliform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | < 5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Agreeable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

REMARKS / OBSERVATIONS:

- The above water sample is complying with required limits as per IS 10500:2012.

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)


Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|--|------------------------|---|
| M/s MOIL LIMITED, Rajna Ramdongri Gunggaon Sand Lease, Dist:- Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2198/2 |
| | Name of Sample | Ground water |
| | Sample Details | Gunggaon Village Grampanchayat water supply |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

ANALYSIS RESULTS

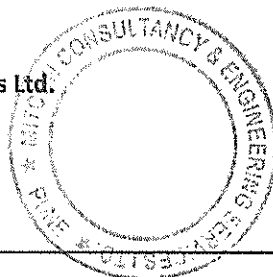
| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.22 | - | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | 8.5 | mg/l | N.S | APHA 2540 D, 2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | < 1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 280.4 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO3 | 132.23 | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | 40.23 | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | 15.75 | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | < 0.1 | mg/l | < 0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO3 | 128.23 | Mg/l | < 200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | < 0.1 | Mg/l | < 1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | 20.33 | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO4 | 19.54 | mg/l | ≤ 200 | APHA 4500 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | < 0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO3 | 8.12 | mg/l | ≤ 45 | APHA 4500 NO3-B, 4-127 23rd Ed 2017 |
| 15 | E.coli | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Coliform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | < 5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Aggreable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By


(Mrs. Kadambari Deshmukh)




Authorized Signatory

(Dr. Sandeep Jadhav)

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|--|------------------------|--------------------------------|
| M/s MOIL LIMITED, Rajna Ramdongri Gungaon Sand Lease, Dist- Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2198/3 |
| | Name of Sample | Ground Water |
| | Sample Details | Rajna Kanhan River Upstream |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

ANALYSIS RESULTS

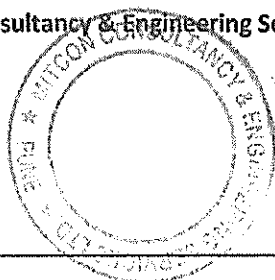
| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.31 | - | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | <5 | mg/l | N.S | APHA 2540 D,2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | <1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 243.2 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO3 | 118.20 | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | 39.67 | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | 13.64 | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | <0.1 | mg/l | <0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO3 | 110.20 | Mg/l | <200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | <0.1 | Mg/l | <1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | 20.32 | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO4 | 11.44 | mg/l | ≤ 200 | APHA 4500-SO4- E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | <0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO3 | 6.25 | mg/l | ≤ 45 | APHA 4500 NO3-B,4-127 23rd Ed 2017 |
| 15 | E.coll | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Coliform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | <5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Agreeable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

REMARKS / OBSERVATIONS:

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)

For MITCON Consultancy & Engineering Services Ltd.



Dr. Sandeep
Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/February/2198

Issue Date:28/02/2023

| Client's Name & Address | Sample Details | |
|---|------------------------|--------------------------------|
| M/s MOIL LIMITED, Rajna Ramdongri Gumgaon Sand Lease, Dist:- Nagpur (M.S) | Sample Code | MITCON/2022-23/February/2198/4 |
| | Name of Sample | Ground water |
| | Sample Details | Rajna Kanhan River Down stream |
| | Container Details | 1 lit plastic can |
| | Sample Collected By | MITCON |
| | Method of sampling | IS 3025(Part I) |
| | Sample Collected On | 21/02/2023 |
| | Date of Sample Receipt | 23/02/2023 |
| | Analysis Start Date | 23/02/2023 |
| | End Date of Analysis | 28/02/2023 |

ANALYSIS RESULTS

| Sr. No. | Parameters | Results | Unit | Limits as per IS 10500:2012 | Test Methods |
|---------|---------------------------|-----------|-----------|-----------------------------|---|
| 01 | pH at 25C | 7.20 | - | 6.5 to 8.5 | APHA 4500 H+, A, 4-95, 23rd Ed 2017 |
| 02 | Total suspended solids | 10.0 | mg/l | N.S | APHA 2540 D,2-70 to 2-71 23rd ed 2017 |
| 03 | Turbidity | < 1 | NTU | ≤ 1 | IS: 3025 Part-10 (R.A : 2002) |
| 04 | Total Dissolved Solids | 222.1 | mg/l | ≤ 500 | APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 |
| 05 | Total Hardness as CaCO3 | 109.12 | mg/l | ≤ 200 | APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017 |
| 06 | Calcium as Ca | 48.13 | mg/l | ≤ 75 | APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017 |
| 07 | Magnesium as Mg | 14.50 | mg/l | ≤ 30 | APHA 3500 Mg B, 3-86, 23rd Ed. 2017 |
| 08 | Manganese as mn | < 0.1 | mg/l | < 0.1 | APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017 |
| 09 | Total Alkalinity as CaCO3 | 113.20 | Mg/l | < 200 | APHA 2320 B, 2-37 to 2-39 23rd Ed 2017 |
| 10 | Fluoride as F | < 0.1 | Mg/l | < 1 | APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017 |
| 11 | Chloride as Cl | 23.25 | mg/l | ≤ 250 | APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017 |
| 12 | Sulphate as SO4 | 14.52 | mg/l | ≤ 200 | APHA 4500 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017 |
| 13 | Iron as Fe | < 0.05 | mg/l | ≤ 0.3 | APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS) |
| 14 | Nitrate as NO3 | 5.72 | mg/l | ≤ 45 | APHA 4500 NO3-B, 4-127 23rd Ed 2017 |
| 15 | E.coli | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 16 | Total Coliform | Absent | MPN/100ml | Absent | IS: 1622 (R.A : 2014) |
| 17 | colour | < 5 | HZ | ≤ 5 | IS: 3025 Part-4 (Rev.1, RA 2012) |
| 18 | odour | Agreeable | Agreeable | Agreeable | IS: 3025 Part-5 (Rev.1, RA 2012) |

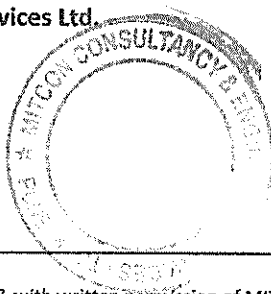
REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.



Checked By

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Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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