

- ISO 45001:2018 (OHSAS) Certified Laboratory.
- MoEF & CC recognized laboratory

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3605

Issue Date:20/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3605/2
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines.L4= 4.070 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Pit Office
	Monitoring Done By	MITCON
	Date of Analysis	15/03/2023

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity hrs.(Avg)	Wind Direction
34	34	23	11	1440	0.0	8.0 km/hrs.(Avg)	NW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	13.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	20.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	73.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	34.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.5	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.474	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.9	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

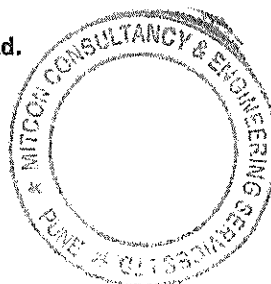
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy &amp; Engineering Services Ltd.

  
Checked By

(Mrs.Kadambari Deshmukh)





Authorized Signatory  
Dr. Sandeep Jadhav  
Senior vice president

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**MITCON Consultancy & Engineering Services Ltd.**

Environment Management and Engineering Division

(Environmental Laboratory)

Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005,

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- ISO 45001:2018 (OHSAS) Certified Laboratory.
- MoEF & CC recognized laboratory



Solutions for Sustainable Tomorrow

Format No. EME/LAB/Format 7.8/TR

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

Report Number : MITCON/2022-23/March/3605

Issue Date:20/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3605/3
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L4= 4.070 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

**READINGS**

Sr. No.	Test Location	Unit	Readings
01	Near Pit Office	dB(A)	68.9

**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 &amp; 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/March/3605

Issue Date:20/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines I.4= 4.070 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3605/1
	Name of Sample	Waste Water
	Sample Details	ETP Outlet (Near Work Shop)
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	13/03/2023
	Date of Sample Receipt	15/03/2023
	Analysis Start Date	15/03/2023
	End Date of Analysis	20/03/2023

**ANALYSIS RESULTS**

Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.24	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.8	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	57.5	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.3	mg/l	30	IS:3025 (Part 44)
05	Total suspended solids	41.8	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	0.34	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy &amp; Engineering Services Ltd.



Checked By

(Mrs. Kadambari Deshmukh)




Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

Format No. EME/LAB/Format 7.8/TR

**Quarter January- February- March 2023**

Test Report

Report Number : MITCON/2022-23/March/3205

Issue Date:20/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3205/3
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near haulage road View point
	Monitoring Done By	MITCON
	Date of Analysis	15/03/2023

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
34	34	23	11	1440	0.0	8.0 km/ hrs.(Avg)	NW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	13.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.9	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	69.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	31.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	5.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.462	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	5.2	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	13.0	≤ 20	APHA - AAS

**REMARKS/OBSERVATIONS:**

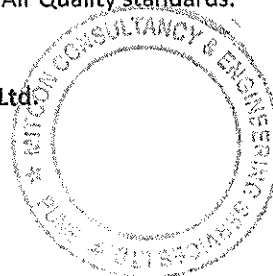
- > All above results are within National Ambient Air Quality standards.
- > BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

*Kadambari*

Checked By

(Mrs.Kadambari Deshmukh)



*Sandeeep*

Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3205

Issue Date:20/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3205/4
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Hospital
	Monitoring Done By	MITCON
	Date of Analysis	15/03/2023

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity hrs.(Avg)	Wind Direction
34	34	23	11	1440	0.0	8.0 km/hrs.(Avg)	NW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	63.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	29.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.450	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	5.3	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

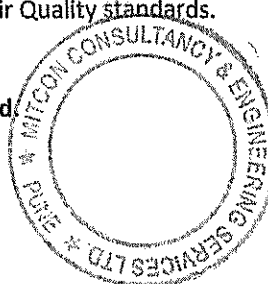
- > All above results are within National Ambient Air Quality standards.
- > BDL: - Below Detection Limit.

For MITCON Consultancy &amp; 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/March/3205

Issue Date:20/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3205/5
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

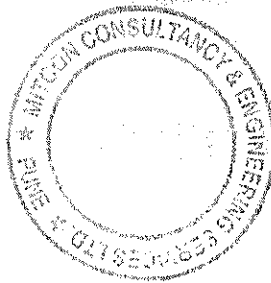
Sr. No.	Test Location	Unit	Readings
01	Haulage Road View Point	dB(A)	56.8
02	Near Mine Hospital	dB(A)	52.0

**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)



JV

Authorized Signatory  
Dr. Sandeep Jadhav  
(Senior Vice President)

Format No. EME/LAB/Format 7.8/TR

**Quarter January- February- March 2023**

Test Report

Report Number : MITCON/2022-23/March/3205

Issue Date:20/03/2023

Client's Name & Address	Sample Details	
<b>M/s MOIL LIMITED,</b>  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3205/1
	Name of Sample	Ground Water
	Sample Details	Piezometer Borewell
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	13/03/2023
	Date of Sample Receipt	15/03/2023
	Analysis Start Date	15/03/2023
	End Date of Analysis	20/03/2023

**ANALYSIS RESULTS**

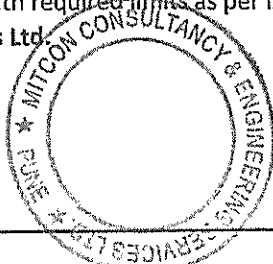
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.21	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	240.3	mg/l	≤ 500	APHA 2540 C,2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	122.52	mg/l	≤200	APHA 2340 C,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	41.34	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	28.52	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	110.25	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 4-9123rd Ed 2017
11	Chloride as Cl	42.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	25.12	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	10.13	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 Colliform	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 Kadambari  
(Mrs. Kadambari Deshmukh)



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

**MITCON Consultancy & Engineering Services Ltd.**Environment Management and Engineering Division  
(Environmental Laboratory)

Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005,

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- MoEF & CC recognized laboratory



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

Report Number : MITCON/2022-23/March/3205

Issue Date:20/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3205/2
	Name of Sample	Waste Water (Mine Pit Discharge)
	Sample Details	Mine Pit Discharge
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	13/03/2023
	Date of Sample Receipt	15/03/2023
	Analysis Start Date	15/03/2023
	End Date of Analysis	20/03/2023

**ANALYSIS RESULTS**

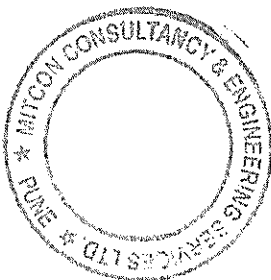
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.32	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.4	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	86.3	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	24.3	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	43.2	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	< 5	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.48	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

**REMARKS / OBSERVATIONS:**

For MITCON Consultancy &amp; 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/March/3290

Issue Date:17/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3290/4
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	11/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Dongri Village
	Monitoring Done By	MITCON
	Date of Analysis	13/03/2023

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
34	34	22	12	1440	0.0	7.0 km/ hrs.(Avg)	NW

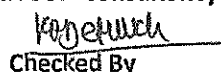
RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.5	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	18.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	63.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	31.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.1	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.360	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.3	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

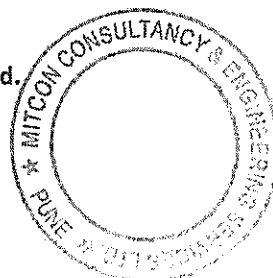
- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy &amp; 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/March/3290

Issue Date:17/03/2023

Client's Name & Address M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022-23/March/3290/3
	Date of Monitoring	11/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Siren Room dump
	Monitoring Done By	MITCON
	Date of Analysis	13/03/2023

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
34	34	22	12	1440	0.0	7.0 km/hrs.(Avg)	NW

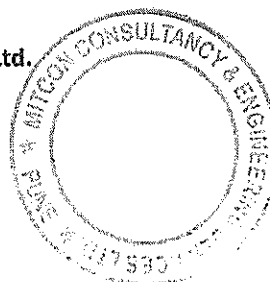
RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	13.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	21.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	72.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	40.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.480	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.9	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy &amp; Engineering Services Ltd.


Checked By  
(Mrs.Kadambari Deshmukh)

Authorized Signatory  
Dr. Sandeep Jadhav  
Senior vice president

**MITCON Consultancy & Engineering Services Ltd.**Environment Management and Engineering Division  
(Environmental Laboratory)Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005,  
Ph. No. 66289405/400, email: emelab@mitconindia.com

- ISO 45001:2018 (OHSAS) Certified Laboratory.
- MoEF & CC recognized laboratory



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

Report Number : MITCON/2022-23/March/3290

Issue Date:17/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3290/5
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	11/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

**READINGS**

Sr. No.	Test Location	Unit	Readings
01	Dongri Village	dB(A)	54.0
02	Near Siren room dump	dB(A)	71.4

**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 &amp; 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/March/3290

Issue Date:17/03/2023

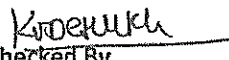
Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3290/1
	Name of Sample	Waste Water
	Sample Details	Pond near Filter plant
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/03/2023
	Date of Sample Receipt	13/03/2023
	Analysis Start Date	13/03/2023
	End Date of Analysis	17/03/2023

**ANALYSIS RESULTS**


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.18	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.4	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	75.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23 <sup>rd</sup> Ed 2017
04	Biochemical Oxygen	24.5	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	38.5	mg/l	100	APHA 2540 D,2-70 to 2-71 23 <sup>rd</sup> Ed 2017
06	Oil and grease	< 5	mg/l	10	APHA 5520 B,5-42 to 5-43 23 <sup>rd</sup> Ed 2017
07	Manganese	0.36	mg/l	2	APHA 3111 B,3-18 to 3-21 23 <sup>rd</sup> Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

  
Checked By  
(Mrs. Kadambari Deshmukh)



  
Authorized Signatory  
(Dr. Sandeep Jadhav)  
Senior Vice President

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3290

Issue Date:17/03/2023

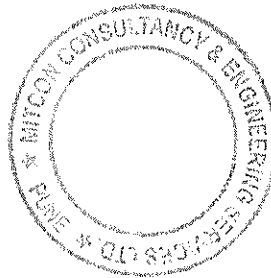
Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3290/2
	Name of Sample	Waste Water (Mine Seepage water)
	Sample Details	Mine Seepage water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/03/2023
	Date of Sample Receipt	13/03/2023
	Analysis Start Date	13/03/2023
	End Date of Analysis	17/03/2023

**ANALYSIS RESULTS**

Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.20	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.3	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	75.3	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	22.9	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	31.3	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	< 5	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 &amp; Engineering Services Ltd.


Checked-By  
(Mrs. Kadambari Deshmukh)

Authorized Signatory  
(Dr. Sandeep Jadhav)  
Senior Vice President

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3202

Issue Date: 17/03/2023

Client's Name & Address M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022-23/March/3202/5
	Date of Monitoring	11/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Work Shop
	Monitoring Done By	MITCON
	Date of Analysis	13/03/2023

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
34	34	22	12	1440	0.0	7.0 km/ hrs.(Avg)	NW

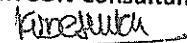
RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	14.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	21.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	70.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	39.3	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.3	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.460	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.6	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

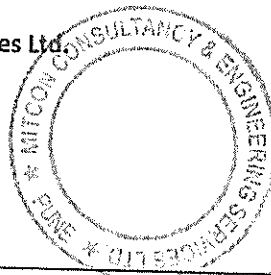
- > All above results are within National Ambient Air Quality standards.
- > BDL: - Below Detection Limit.

For MITCON Consultancy &amp; 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/March/3202

Issue Date: 17/03/2023

<b>Client's Name &amp; Address</b>	<b>Reference No.</b>	MITCON/2022-23/March/3202/6
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	<b>Date of Monitoring</b>	11/03/2023
	<b>Type of Monitoring</b>	Ambient Air
	<b>Test Location</b>	Near Mine Magazine
	<b>Monitoring Done By</b>	MITCON
	<b>Date of Analysis</b>	13/03/2023

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
34	34	22	12	1440	0.0	7.0 km/ hrs.(Avg)	NW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	18.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	63.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	31.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.442	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.9	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

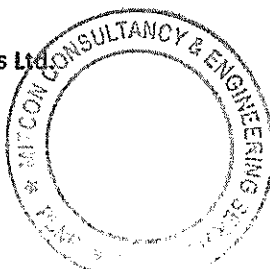
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy &amp; 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/March/3202

Issue Date: 17/03/2023

<b>Client's Name &amp; Address</b> M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	<b>Reference No.</b>	MITCON/2022-23/March/3202/7
	<b>Date of Monitoring</b>	11/03/2023
	<b>Type of Monitoring</b>	Ambient Air
	<b>Test Location</b>	Kurumunda Gram Panchayat Office
	<b>Monitoring Done By</b>	MITCON
	<b>Date of Analysis</b>	13/03/2023

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
34	34	22	12	1440	0.0	7.0 km/ hrs.(Avg)	NW

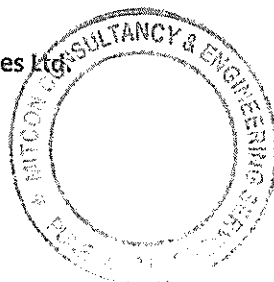
RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	58.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	29.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.298	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.7	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy &amp; 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/March/3202

Issue Date: 17/03/2023

<b>Client's Name &amp; Address</b>	<b>Reference No.</b>	MITCON/2022-23/March/3202/8
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	<b>Date of Monitoring</b>	11/03/2023
	<b>Type of Monitoring</b>	Ambient Air
	<b>Test Location</b>	Near Railway Station
	<b>Monitoring Done By</b>	MITCON
	<b>Date of Analysis</b>	13/03/2023

**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
34	34	22	12	1440	0.0	7.0 km/ hrs.(Avg)	NW

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.3	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	60.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	30.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.8	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.300	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.0	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

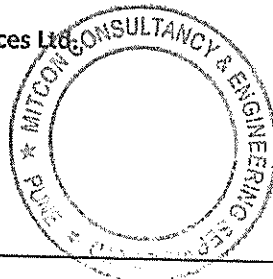
**REMARKS/OBSERVATIONS:**

- 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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**MITCON Consultancy & Engineering Services Ltd.**Environment Management and Engineering Division  
(Environmental Laboratory)Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005,  
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**Quarter January- February- March 2023****Test Report**

Report Number : MITCON/2022-23/March/3202

Issue Date: 17/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3202/9
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	11/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON


**READINGS**

Sr. No.	Test Location	Unit	Readings
01	Near Haulage Road	dB(A)	63.8
02	Near Crushing and Screening	dB(A)	72.4
03	Near Mine Magazine	dB(A)	59.2
04	Mine Workshop	dB(A)	68.7


**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 &amp; 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/March/3202

Issue Date: 17/03/2023

Client's Name & Address	Sample Details	
<b>M/s MOIL LIMITED,</b>  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3202/1
	Name of Sample	Ground Water
	Sample Details	Work Shop Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/03/2023
	Date of Sample Receipt	13/03/2023
	Analysis Start Date	13/03/2023
	End Date of Analysis	17/03/2023

**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	284.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	142.23	mg/l	≤200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	45.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	25.12	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	127.12	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	138.20	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	45.54	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	5.25	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)

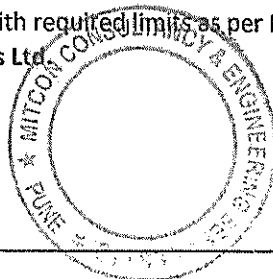
**REMARKS / OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd

*Kadambari*  
Checked By

(Mrs. Kadambari Deshmukh)



*SJD*

Authorized Signatory

(Dr.Sandeep Jadhav)  
Senior Vice President

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**MITCON Consultancy & Engineering Services Ltd.**

Environment Management and Engineering Division  
(Environmental Laboratory)

Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005,  
Ph. No. 66289405/400, email: emelab@mitconindia.com

- ISO 45001:2018 (OHSAS) Certified Laboratory.
- MoEF & CC recognized laboratory



Solutions for Sustainable Tomorrow

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**Quarter January- February- March 2023**

**Test Report**

Report Number : MITCON/2022-23/March/3202

Issue Date: 17/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Sample Code	MITCON/2022-23/March/3202/2
	Name of Sample	Ground Water
	Sample Details	Old Pit Reservoir
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/03/2023
	Date of Sample Receipt	13/03/2023
	Analysis Start Date	13/03/2023
	End Date of Analysis	17/03/2023

**ANALYSIS RESULTS**

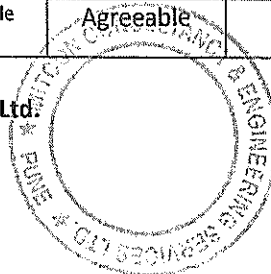
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.22	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	260.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	131.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	54.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	23.24	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	128.25	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	45.24	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.23	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.

Checked By Kadambari Deshmukh

(Mrs. Kadambari Deshmukh)



Authorized Signatory  
(Dr. Sandeep Jadhav)  
Senior Vice President

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Solutions for Sustainable Tomorrow

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

Report Number : MITCON/2022-23/March/3202

Issue Date: 17/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3202/3
	Name of Sample	Ground water
	Sample Details	Kurumuda Pond
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/03/2023
	Date of Sample Receipt	13/03/2023
	Analysis Start Date	13/03/2023
	End Date of Analysis	17/03/2023

**ANALYSIS RESULTS**

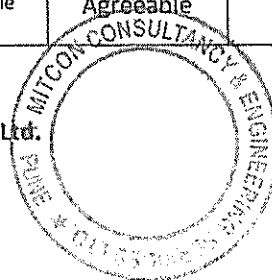
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012.	Test Methods
01	pH at 25C	7.20	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	230.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	105.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	38.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	14.25	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	94.25	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	18.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	10.25	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	7.43	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 &amp; 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/March/3202

Issue Date: 17/03/2023

Client's Name & Address	Sample Details	
<b>M/s MOIL LIMITED,</b>  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3202/4
	Name of Sample	Ground water
	Sample Details	Pond Near Shiv Mandir
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/03/2023
	Date of Sample Receipt	13/03/2023
	Analysis Start Date	13/03/2023
	End Date of Analysis	17/03/2023

**ANALYSIS RESULTS**

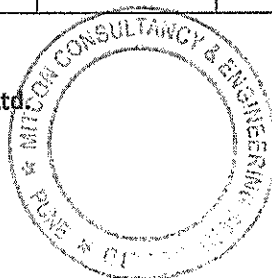
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	255.5	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	127.45	mg/l	≤200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	46.52	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	21.53	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	120.15	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	51.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.25	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	8.52	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/March/3967

Issue Date :20/03/2023

Client's Name & Address M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Reference No.	MITCON/2022-23/March/3967/3
	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Siding Office
	Monitoring Done By	MITCON
	Date of Analysis	15/03/2023

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
34	34	23	11	1440	0.0	8.0 km/hrs.(Avg)	NW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	18.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	66.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	34.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.6	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.434	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.8	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

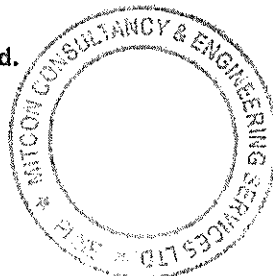
REMARKS/OBSERVATIONS:

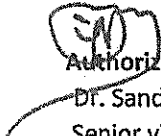
- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy &amp; 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/March/3967

Issue Date :20/03/2023

Client's Name & Address M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022-23/March/3967/4
	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Loading Area
	Monitoring Done By	MITCON
	Date of Analysis	15/03/2023

**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
34	34	23	11	1440	0.0	8.0 km/ hrs.(Avg)	NW

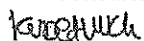
**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	13.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	18.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	71.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	36.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	5.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.472	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	5.3	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

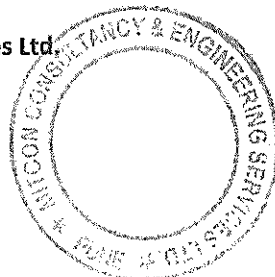
**REMARKS/OBSERVATIONS:**

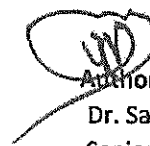
- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy &amp; 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/March/3967

Issue Date :20/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3967/5
M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	13/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

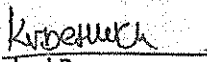
**READINGS**

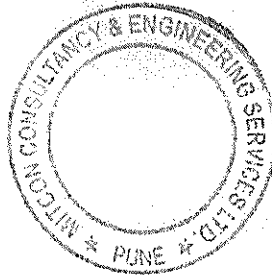
Sr. No.	Test Location	Unit	Readings
01	Drilling Machine	dB(A)	72.0
02	Loading Area	dB(A)	68.5


**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/March/3967

Issue Date :20/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3967/1
	Name of Sample	Ground Water
	Sample Details	Borewell near Balapur Hamasha Camp
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	13/03/2023
	Date of Sample Receipt	15/03/2023
	Analysis Start Date	15/03/2023
	End Date of Analysis	20/03/2023

**ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.36	-	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	234.6	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	117.46	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	21.89	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	150.25	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	85.76	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	20.15	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	10.25	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)

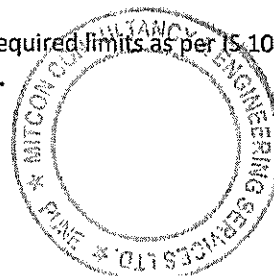
**REMARKS / OBSERVATIONS:**

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

For MITCON Consultancy &amp; Engineering Services Ltd.

Checked By 

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)  
Senior Vice President

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**Test Report**

Report Number : MITCON/2022-23/March/3967

Issue Date :20/03/2023

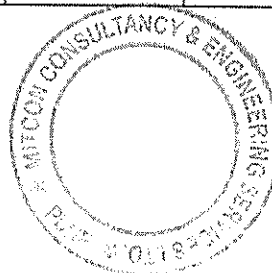

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/March/3967/2
	Name of Sample	Ground Water
	Sample Details	Kurumunda Village
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	13/03/2023
	Date of Sample Receipt	15/03/2023
	Analysis Start Date	15/03/2023
	End Date of Analysis	20/03/2023

**ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	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	212.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	164.20	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	58.21	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	23.52	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	120.25	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	45.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	21.37	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	7.52	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 &amp; Engineering Services Ltd.


Checked By  
(Mrs. Kadambari Deshmukh)

  
Authorized Signatory  
(Dr. Sandeep Jadhav)  
Senior Vice President

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