

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/9
M/s MOIL LIMITED, Chikla Manganese Mines L1=150.650 Ha Site, Dist-Bhandara (M.S)	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Near Work Shop	dB(A)	63.8
02	Near vertical Fan	dB(A)	71.9
03	Near Crushing Plant	dB(A)	68.3
04	Near DG Set	dB(A)	69.0

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.

Checked By

(Mrs: Kadambari Deshmukh)



Authorized Signatory

Dr. Sandeep Jadhav
(Senior Vice President)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Chikla Manganese Mines LI=150.650 Ha Site, Dist-Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3159/1
	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	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

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	4.4	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	71.4	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	22.1	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	38.9	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	0.35	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

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)



(Signature)

Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Chikla Manganese Mines LI=150.650 Ha Site, Dist-Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3159/2
	Name of Sample	Ground Water
	Sample Details	Officer colony water supply
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

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	9.0	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	332.6	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	151.12	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	40.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.24	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	135.08	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	52.14	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	20.08	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	7.68	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 Deshmukh
Checked By

(Mrs. Kadambari Deshmukh)



(Signature)

Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

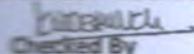
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Chikla Manganese Mines L1=150.650 Ha Site, Dist-Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3159/3
	Name of Sample	Waste water
	Sample Details	ETP Outlet
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
02	pH at 25°C	7.23	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.9	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	72.4	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	21.5	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	35.6	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	0.38	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Chikla Manganese Mines LI=150.650 Ha Site, Dist-Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3159/4
	Name of Sample	Waste water (Mine Discharge 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	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.10	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.7	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	84.5	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	24.6	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	31.4	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	0.42	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/5
M/s MOIL LIMITED, Chikla Manganese Mines L1=150.650 Ha Site, Dist- Bhandara (M.S)	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Office
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/hrs.(Avg)	SSE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.9	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.7	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	60.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	28.4	≤ 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	0.293	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.9	≤ 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

- 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/3159

Issue Date:13/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/6
M/s MOIL LIMITED, Chikla Manganese Mines L1=150.650 Ha Site, Dist:- Bhandara (M.S)	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Sita Sawangi Village
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/ hrs.(Avg)	SSE

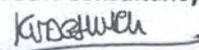
RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.7	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	57.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	27.7	≤ 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	0.215	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.4	≤ 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

Client's Name & Address M/s MOIL LIMITED, Chikla Manganese Mines L1=150.650 Ha Site, Dist:- Bhandara (M.S)	Reference No.	MITCON/2022-23/March/3159/7
	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Durga Chowk
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/hrs.(Avg)	SSE

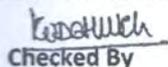
RESULT

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	18.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	67.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	33.6	≤ 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.



Checked By

(Mrs.Kadambari Deshmukh)




Authorized Signatory

Dr. Sandeep Jadhav
Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:13/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/8
M/s MOIL LIMITED, Chikla Manganese Mines L1=150.650 Ha Site, Dist:- Bhandara (M.S)	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Vertical
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/ hrs.(Avg)	SSE

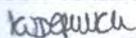
RESULT

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	18.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	69.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	35.2	≤ 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	0.417	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.4	≤ 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

This Report is valid for tested sample only.

This Report shall not be reproduced except in full & with written permission of MITCON.

This Report should not be used for advertisement / judicial purpose.

Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3790/5
M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:-Bhandara (M.S)	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Pathari Sand Lease from 500 m
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/hrs.(Avg)	SSE

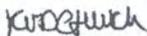
RESULT

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	16.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	59.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	26.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.2	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.248	≤ 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

Client's Name & Address M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:-Bhandara (MS).	Reference No.	MITCON/2022-23/March/3790/6
	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Haul Road of Sand Lease 2 km east
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/ hrs.(Avg)	SSE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.2	≤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	61.7	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	30.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.293	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.7	≤ 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

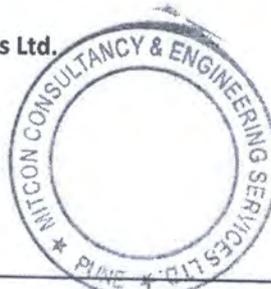
REMARKS/OBSERVATIONS:

- > 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)



Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

Client's Name & Address M/s MOIL LIMITED, Palsari Sand Lease 40.410 Ha Site, Dist:-Bhandara (M.S).	Reference No.	MITCON/2022-23/March/3790/7
	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Point of Sand lease
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/ hrs.(Avg)	SSE

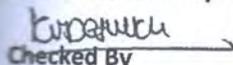
RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.5	≤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	61.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	27.6	≤ 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	0.317	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.8	≤ 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.

MITCON Consultancy & Engineering Services Ltd.



Checked By

Mrs. Kadambari Deshmukh)




Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

Client's Name & Address M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:-Bhandara (MS).	Reference No.	MITCON/2022-23/March/3790/8
	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Pathari Village
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	33	19	15	1440	0.0	7.9 km/hrs.(Avg)	SSE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.3	≤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	57.7	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	25.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	2.9	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.240	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.6	≤ 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)



Dr. Sandeep

Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

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

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

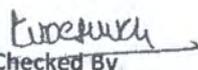
Client's Name & Address	Reference No.	MITCON/2022-23/March/3790/9
M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:- Bhandara (M.S).	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Pathari Sand Lease from 500 m	dB(A)	58.8
02	Haul Road of Sand Lease 2 km East	dB(A)	61.3
03	Point of Sand Lease	dB(A)	63.8
04	Pathari Village	dB(A)	53.0

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.



Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

Dr. Sandeep Jadhav
(Senior Vice President)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:- Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3790/1
	Name of Sample	Ground Water
	Sample Details	Pathari Sand Lease River
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-	6.5 to 8.5	
02	Total suspended solids	11.0	mg/l	N.S	APHA 4500 H+, A, 4-95, 23rd Ed 2017 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	268.9	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	132.24	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	21.23	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	111.32	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	40.38	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	6.54	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.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)
Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

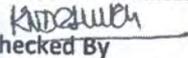
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:- Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3790/2
	Name of Sample	Ground Water
	Sample Details	Pathari Sand Lease 2 Km from site
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

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	11.0	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	204.5	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	103.59	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	48.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.40	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	102.25	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	30.19	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	12.54	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	12.52	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.

Checked By 

(Mrs. Kadambari Deshmukh)





Authorized Signatory
 (Dr. Sandeep Jadhav)
 Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:- Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3790/3
	Name of Sample	Ground water
	Sample Details	Pathari Village Bore Well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.28	-	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	306.7	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO ₃	157.14	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	48.16	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.36	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	147.25	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	42.13	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO ₄	18.25	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	5.25	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:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3790

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Pathari Sand Lease 40.410 Ha Site, Dist:- Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3790/4
	Name of Sample	Ground Water
	Sample Details	Pathari Village (Tola) Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

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	303.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	156.12	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	42.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	23.40	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	141.25	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	52.27	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	10.24	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	8.92	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

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3210/1

Issue Date:13/03/2023

Client's Name & Address M/s MOIL LIMITED, Chikla Railway Siding, Dist:-Bhandara (M.S).	Reference No.	MITCON/2022-23/March/3210/4
	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Railway Siding Area
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	32	19	15	1440	0.0	7.9 km/ hrs.(Avg)	SSE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	13.7	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	18.1	≤ 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	35.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.3	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.423	≤ 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

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



JV

Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3210/1

Issue Date:13/03/2023

Client's Name & Address M/s MOIL LIMITED, Chikla Railway Siding, Dist-Bhandara (M.S)	Reference No.	MITCON/2022-23/March/3210/3
	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Weigh Bridge
	Monitoring Done By	MITCON
	Date of Analysis	06/03/2023

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
33	32	19	15	1440	0.0	7.9 km/hrs.(Avg)	SSE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	13.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	67.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	33.6	≤ 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	0.416	≤ 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3210/1

Issue Date:13/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3210/5
M/s MOIL LIMITED, Chikla Railway Siding, Dist:-Bhandara (M.S).	Date of Monitoring	02/03/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

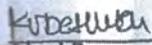
READINGS

Sr. No.	Test Location	Unit	Readings
01	Weigh Bridge	dB(A)	67.9
02	Loading and Un Loading	dB(A)	70.3

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)

- This Report is valid for tested sample only.

- This Report shall not be reproduced except in full & with written permission of MITCON.

- This Report should not be used for advertisement / judicial purpose.

- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3210/1

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Chikla Railway Siding, Dist:-Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3210/1
	Name of Sample	Ground Water
	Sample Details	Railway Siding Office Drinking water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

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	11.0	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	324.5	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	152.10	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	42.32	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.36	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	141.23	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	40.16	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	35.22	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	10.26	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)



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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3210/1

Issue Date:13/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Chikla Railway Siding, Dist:-Bhandara (M.S)	Sample Code	MITCON/2022-23/March/3210/2
	Name of Sample	Ground Water
	Sample Details	Railway Siding Water supply
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/03/2023
	Date of Sample Receipt	06/03/2023
	Analysis Start Date	06/03/2023
	End Date of Analysis	13/03/2023

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	12.0	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	320.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	160.14	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	45.14	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	13.26	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 CaCO3	145.14	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	48.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	32.34	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	8.83	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.