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

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	13.1	⊴80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	19.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	71.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	36.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.6	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.462	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	5.0	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M³	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.

Kurochukh

Checked By

(Mrs.Kadambari Deshmukh)



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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	16.0	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	63.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	31.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.9	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
. 07	Carbon Monoxide (CO)	mg/M³	0.342	≤ 2.0	IS 5182
80	Ammonia (NH₃)	μg/M³	4.3	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	<u>≤1</u>	
11	Arsenic (As)	ng/ M ³	BDL	≤6	IS 5182
12	Nickel (Ni)	ng/ M³	BDL	≤ 20	APHA - AAS APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kupernich Checked By

(Mrs. Kadambari Deshmukh)

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

READINGS

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

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

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Quarter January- February- March 2023

Test Report

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

Issue Date: 28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	. Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.21	3500.50°	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	230.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	110.25	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	35.12	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	10.25	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
80	Mangnese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	105.65	Mg/l	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	23.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	10.12	mg/l	≤ 200	APHA 4500 –SO4E, 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)
1.4	Nitrate as NO3	7.13	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

The above water sample is complying with required limits as per IS 10500:2012. CON Consultancy & Engineering Services Ltd.

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

result

Sr. No.	#1 - CONCLEA		ANDERSON AND SERVICE	a difference	Got March States A.
	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	13.5	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	19.0	≤80	The second secon
03	Particulate Matter PM10 micron	μg/M³	69.3	≤ 100	IS 5182(Part 6)
04	Particulate Matter PM2.5 micron	μg/M³	35.0	≤ 60	IS 5182 (Part 23)
05 🐬	Ozone (O3)	μg/M ³	4.2		USEPA 40 CFRCH
06	Lead (Pb)	μg/M³	BDL	≤ 100	IS 5182
07	Carbon Monoxide (CO)	mg/M³	0.376	≤1.0	APHA - AAS
08	Ammonia (NH ₃)	μg/M³	4.7	≤ 2.0	IS 5182
09	Benzene (C ₆ H ₆)	μg/M³		≤ 400	APHA - 401
10	Benzo(a)Pyrene (BaP)		BDL	≤ 5	IS 5182
11	Arsenic (As)	ng/M³	BDL	≤1	IS 5182
12	Nickel (Ni)	ng/ M ³	BDL	≤6	APHA - AAS
	1	ng/ M³	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)

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Test Report

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

Issue Date:28/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2501/5
M/s MOIL LIMITED,	Date of Monitoring	21/02/2023
•	Type of Monitoring	Ambient Air
Gumgaon Manganese Mines L3=35.970 Ha Site, Dist:-	Test Location	Tigai Village
Nagpur (M.S).	Monitoring Done By	MITCON
	Date of Analysis	23/02/2023

OBSERVATION

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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂) .	μg/M³	11.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	15.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	58.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5 micron}	μg/M³	30.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.4	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.318	≤ 2.0	IS 5182
80	Ammonia (NH₃)	μg/M³	3.6	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL.	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M³	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

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

Reference No.	MITCON/2022-23/February/2501/6
Date of Monitoring	21/02/2023
Type of Monitoring	Ambient Air
Test Location	Khapa Village
Monitoring Done By	MITCON
Date of Analysis	23/02/2023
	Date of Monitoring Type of Monitoring Test Location Monitoring Done By

OBSERVATION

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

RESULT

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	12.7	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	16.8	≤80	IS 5182(Part 6)
03	Particulate Matter PM _{10 micron}	μg/M³	67.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	34.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	3.7	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.340	≤ 2.0	IS 5182
· 08 ·	Ammonia (NH ₃)	μg/M³	4.0	≤ 400	APHA - 401
09	Benzene (C₅H₅)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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)

Dr Sandeep Jadhav Senior vice president

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Test Report

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

Issue Date:28/02/2023

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

READINGS

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

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



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Format No. EME/LAB/Format 7.8/TR

Test Report

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

Issue Date:28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.20	- -	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.2	mg/I	N.S.	APHA 2540 D.2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU 🦸	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	220.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Tótal Hardness as CaCO3		mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	alai Alaasi	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg		mg/l	≤30.	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	Mangnese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3		Mg/I	<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	•	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4		mg/l	≤ 200	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3		mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

(Mrs. Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

ANALYSIS RESULTS

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

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

ANALYSIS RESULTS

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

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

(Mrs. Kadambari Deshmukh)

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	13.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	19.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	70.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	35.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.5	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.394	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	4.7	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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)



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Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	12.7	<u>≤</u> 80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M ³	18.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	65.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	33.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.381	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	4.3	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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.

typewill Checked By

(Mrs. Kadambari Deshmukh)



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Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	13.2	≤80	IS 5182(Part 2)
Ó2	Oxides of Nitrogen (NO ₂)	μg/M³	19.4	≤80	IS 5182(Part 6)
03	Particulate Matter PM _{10 micron}	μg/M³	72.7	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5 micron}	μg/M³	37.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	4.7	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.424	≤ 2.0	IS 5182
80	Ammonia (NH₃)	μg/M³	4.8	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	<u> </u>	IS 5182
11	Arsenic (As)	ng/ M³	BDL	<u></u> ≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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)



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

Issue Date:28/02/2023

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

READINGS

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

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Consulty Checked By

(Mrs. Kadambari Deshmukh)



zed Signatory Dr. Sandeep Jadhav (Senior Vice President)

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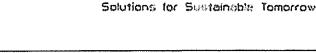
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Test Report

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

Issue Date: 28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.12	iitji:evetive	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A ; 2002)
04	Total Dissolved Solids	245.6	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	119.37	mg/l	≤200	APHA 2340 C,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	41.02	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	13.44	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	Mangnese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	104.22	' Mg/l	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	45.13	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	12.22	mg/l	≤ 200	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	2.98	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd, Checked By DDCHWCM

(Mrs. Kadambari Deshmukh)

¥zed∕Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Test Report

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

Issue Date:28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.22	A Yalin in A Sauli dyana ini	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.6	mg/l	- 45 kg 2	IS: 3025 Part 38
03	Chemical Oxygen Demand	75.4	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	22.4	mg/l	30	IS :3025 (Part 44)
. 05	Total suspended solids	38.6	mg/l	100	APHA 2540 D,2-70 to 2-71 23 rd Ed 2017
06	Oil and grease	<5	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.41	mg/l	2 *	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Mooning Checked By

(Mrs. Kadambari Deshmukh)



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Test Report

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

Issue Date:28/02/2023

Client's Name & Address		Sample Details			
M/s MOIL LIMITED, ·	Sample Code	MITCON/2022-23/February/2105/3			
	Name of Sample	Ground water			
Gumgaon Manganese Mines L1=48.596 Ha Site,	Sample Details	Staff Quarter Bore well water			
Dist:-Nagpur (M.S)	Container Details	1 lit plastic can			
	Sample Collected By	MITCON			
	Method of sampling	IS 3025(Part I)			
	Sample Collected On	21/02/2023			
	Date of Sample Receipt	23/02/2023			
	Analysis Start Date	23/02/2023			
	End Date of Analysis	28/02/2023			

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.23	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5.0	ing/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	320.2	mg/l	≤500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CacO3	150.42	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	32.40	mg/l	1991 ≤ 75 3893 833 - 1997 8	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	12.20	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	Mangnese as mn	< 0,1	mg/l	< 0.1	[®] APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	132,14	Mg/l	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	24.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	31.67	mg/l	≤ 200	APHA 4500 -SO4E, 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	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd

Checked BV

(Mrs. Kadambari Deshmukh)

(Dr. Sandeep Jadhav) Senior Vice President

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	11.5	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	16.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	63.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	30.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M³	3.9	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.328	≤ 2.0	IS 5182
-08	Ammonia (NH ₃)	μg/M³	4.0	≤ 400	APHA - 401
09	Benzene (C6H6)	μg/M³	BDL	≥5	is 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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.

Whatwel Checked By

(Mrs.Kadambari Deshmukh)

SUTANCY

khorized Signatory Dr. Sandeep Jadhav Senior vice president

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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

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Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

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

Issue Date: 28/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2198/6
M/s MOIL LIMITED,	Date of Monitoring	21/02/2023
	Type of Monitoring	Ambient Air
Rajna Ramdongri Gumgaon Sand Lease, Dist:- Nagpur (M.S).	Test Location	Near Sand Plant
	Monitoring Done By	MITCON
	Date of Analysis	23/02/2023
	1	1

OBSERVATION

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

RESULT

Sr.	Description	Unit	Results	CPCB standard	Test Method
No.					
01	Sulphur Dioxide (SO ₂)	μg/M³	13.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	18.8	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	66.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PMz.5 micron	μg/M³	32.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.349	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	4.3	≤ 400	APHA - 401
09	Benzene (C₅H₅)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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)

Dr Sandeep Jadhav Senior vice president

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

OBSERVATION

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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	12.4	<u>≤</u> 80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	16.5	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	58.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	hg/W ₃	26.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	3.3	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.324	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	3.5	≤ 400	APHA - 401
09	Benzene (C₀H₀)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni) .	ng/ M³	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)

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Test Report

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Issue Date:28/02/2023

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

OBSERVATION

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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	13.1	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	18.5	≤80	IS 5182(Part 6)
03	Particulate Matter PM _{10 micron}	µg/M³	65.0	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5 micron}	μg/M³	31.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.1	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.356	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	4.5	≤ 400	APHA - 401
09	Benzene (C₅H₅)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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)



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Test Report

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

Issue Date:28/02/2023

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

READINGS

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

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Or Sandeep Jadhav (Senior Vice President)

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Quarter January- February- March 2023

Test Report

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

Issue Date:28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.21	_	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	235.7	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	113.24	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	44.20	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	11.26	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	Mangnese as mn	< 0.1	mg/l	<0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	108,62	mg/l	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	<u></u>	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
_11	Chloride as Cl	23,62	mg/l	≲ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.52	mg/l	≤ 200	APHA 4500 -SO4E, 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	7.32	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

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Test Report

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

Issue Date:28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.22	andy i	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended sollds	8.5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	280.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	132.23	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	40.23	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07 ·	Magnesium as Mg	15.75	mg/l	\$30	APHA 3500 Mg B, 3-86 , 23rd Ed, 2017
08	Mangnese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	128.23	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	20.33	mg/i	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	19.54	mg/l	≤ 200	APHA 4500 -SO4E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	8.12	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory (Dr. Sandeep Jadhav)

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Issue Date:28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.31		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended sollds	< 5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	243,2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	118.20	mg/l	≤200	APHA 2340 C ;2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	39.67	mg/i	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	13.64	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	Mangnese as mn	< 0.1	mg/l	₹0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	110.20	Mg/l	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	20.32	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as \$04	11.44	mg/l	≤ 200	APHA 4500 -SO4E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	6.25	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

Checked By

For MITCON Consultancy & Engineering Services Ltd.

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Test Report

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

Issue Date:28/02/2023

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per iS 10500:2012	Test Methods
01	pH at 25C	7.20	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	222.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	109.12	mg/l	≤200	APHA 2340 C,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	48.13	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	14.50	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed, 2017
80	Mangnese as mn	< 0.1	mg/l	< 0:1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	113.20	Mg/I	<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	23.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	14.52	mg/l	≤ 200	APHA 4500 -SO4E, 4-199 TO 4-200, 23rd Ed 2017
13	iron as Fe	< 0.05	mg/l	≤0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	5.72	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

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