**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/2855

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2855/5
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
	Type of Monitoring	Ambient Air
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur	Test Location	Pench River Bank
(M.S)	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/	SSE
	<u> </u>	<u> </u>				hrs.(Avg)	

#### RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M³	12.3	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	μg/M³	16.1	≤ 80	IS 5182(Part 6)
03 🏈	Particulate Matter PM10 micron	μg/M³	57.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PMz5 micron	μg/M³	26.7	< 60 ≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μιg/M³	3.7	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.321	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	μg/M³	3.9	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	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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## Quarter January- February- March 2023

### **Test Report**

Report Number: MITCON/2022-23/February/2855

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2855/6
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
	Type of Monitoring	Ambient Air
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur	Test Location	500 m from River Bank
(M.S)	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

#### RESULT

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method		
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M³	11.8	<b>≤80</b>	IS 5182(Part 2)		
02	Oxides of Nitrogen (NO <sub>2</sub> )	μg/M³	15.9	≤ 80	IS 5182(Part 6)		
03	Particulate Matter PM <sub>10 micron</sub>	μg/M³	55.8	≤ 100	IS 5182 (Part 23)		
04	Particulate Matter PM2.5 micron	μg/M³	25.0	≤ 60	USEPA 40 CFRCH		
05	Ozone (O <sub>3</sub> )	μg/M³	3.5	≤ 100	IS 5182		
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS		
07	Carbon Monoxide (CO)	mg/M³	0.310	≤ 2.0	IS 5182		
08	Ammonia (NH <sub>3</sub> )	μg/М³	3.7	≤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	<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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## Quarter January- February- March 2023

### **Test Report**

Report Number: MITCON/2022-23/February/2855

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2855/7
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
	Type of Monitoring	Ambient Air
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur	Test Location	Mahuli Village
(M.S)	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

## RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M³	12.9	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	μg/M³	17.6	≤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	35.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	μg/M³	3.9	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.341	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	4.0	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	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/2855

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2855/8
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
	Type of Monitoring	Ambient Air
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur	Test Location	Kalaphata Village
(M.S)	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

#### RESULT

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M³	12.5	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	μg/M³	17.0	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	60.9	≤100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	33.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	μg/M³	3.8	≤ 100	I\$ 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.334	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	3.9	≤ 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.

kunerut Checked By

(Mrs.Kadambari Deshmukh)



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## Quarter January- February- March 2023

### **Test Report**

Report Number: MITCON/2022-23/February/2855

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2855/6
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur	Type of Monitoring	Ambient Noise
(M.S)	Monitoring Done By	MITCON

#### **READINGS**

Sr. No.	Test Location	Unit	Readings
01	Pench River Bank	dB(A)	48.6
02	500 m from River Bank	dB(A)	46.0
03	Mahuli Village	dB(A)	52.9
04	Kalaphata Village	dB(A)	51.6

### **REMARKS / OBSERVATIONS:**

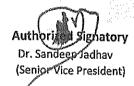
Limits: The Maharashtra Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

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/2855

Issue Date:27/02/2023

Client's Name & Address		Sample Details
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2855/1
	Name of Sample	Ground Water
Calaphata sand lease 8.000 Ha Site, Dist:-Nagpur M.S)	Sample Details	Pench River Bank
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/02/2023
	Date of Sample Receipt	20/02/2023
	Analysis Start Date	20/02/2023
	End Date of Analysis	27/02/2023

### **ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.2	mg/l	N.S.	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< <b>1</b> 5/45	NTU	≤1	1996 MIC 2025 D. 2440 (D. A. 2000)
04	Total Dissolved Solids	260.0	mg/l	≤ 500	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO3	125,14	mg/l	≤200	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 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	13.44	mg/I	≤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 Afkalinity as Caco3	118.37	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	ADIA ATOO F D 4 OD
11	Chloride as Cl	25.63	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
12	Sulphate as SO4	18.22	mg/l	≤ 200	APHA 4500 CI, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	5.42	mg/l	<u>3 0.3</u> ≤45	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 1622 (R.A : 2014) IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

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**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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## Quarter January- February- March 2023

## **Test Report**

Report Number: MITCON/2022-23/February/2855

Issue Date:27/02/2023

Client's Name & Address		Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2855/2			
	Name of Sample	Ground Water			
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Sample Details	500 m from River bank			
	Container Details	1 lit plastic can			
	Sample Collected By	MITCON			
	Method of sampling	IS 3025(Part I)			
	Sample Collected On	18/02/2023			
	Date of Sample Receipt	20/02/2023			
	Analysis Start Date	20/02/2023			
	End Date of Analysis	27/02/2023			

#### **ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.28	egregation of the	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	11.0	mg/l	N.5	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	2.3	NTU	s1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	212.4	mg/l	≤500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	105.24	mg/l	≤200	APHA 2340 C ;2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	32.25	mg/I	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	18.44	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	108.54	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	APHA ASON E DA ONE A OSON II ELLOCA
11	Chloride as Cl	27.25	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
12	Sulphate as SO4	13.56	mg/l	≤ 200	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017 APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	5.54	mg/l	≤45	APHA 4500 NO2 B 4 127 27 15 100-
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	. HZ	≤ 5	IS: 1622 (R.A : 2014) IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

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**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)

(Dr.Sandeep Jadhav) Senior Vice President

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## Quarter January- February- March 2023

## **Test Report**

Report Number: MITCON/2022-23/February/2855

Issue Date:27/02/2023

Client's Name & Address		Sample Details
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2855/3
	Name of Sample	Ground Water
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur	Sample Details	Mahuli Village
(M.S)	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/02/2023
	Date of Sample Receipt	20/02/2023
•	Analysis Start Date	20/02/2023
	End Date of Analysis	27/02/2023

## **ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.27	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.0	mg/l	Ň.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1/	NTU	<b>s</b> 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	280.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	133.24	mg/l	: ≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	48.70	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magneslum as Mg	12.37	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	125.45	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	41.17	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.63	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	6.54	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017 (using AAS)
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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## Quarter January- February- March 2023

#### **Test Report**

Report Number: MITCON/2022-23/February/2855

Issue Date:27/02/2023

Client's Name & Address		Sample Details
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2855/4
	Name of Sample	Ground Water
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Sample Details	Kalaphata Village
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/02/2023
	Date of Sample Receipt	20/02/2023
	Analysis Start Date	20/02/2023
	End Date of Analysis	27/02/2023

## **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	310.4	mg/l	≤ 500	APHA 2540 G 2 50 to 2 70 22-4 5420-5
05	Total Hardness as CaCO3	145.32	mg/l	≤200	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 APHA 2340 C,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	42.13	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	22.10	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	128.52	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	APHA AFOO F DA COLLA CASSA LI TILOS
11	Chloride as Cl	37.26	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
12	Sulphate as SO4	12.54	mg/l	≤ 200	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤0.3	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	5.59	mg/l	≤45	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 1622 (R.A : 2014) IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

KEIVIARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd. \$ CONSULTANO

Checked By

(Mrs. Kadambari Deshmukh)

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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/2913

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2913/6
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
,	Type of Monitoring	Ambient Air
Kandri Manganese Mines L1=83.060 Ha Site, Dist:-	Test Location	Near Mine Pit
Nagpur (M.S)	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

### **RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M³	13.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	μg/M³	19.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	66.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	31.8	≤ 60	USEPA 40 CFRCH
05	Ozone (Os)	μg/M³	4.0	≤ 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 (NH <sub>3</sub> )	μg/M³	4.3	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	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

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## Quarter January- February- March 2023

#### **Test Report**

Report Number: MITCON/2022-23/February/2913

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2913/7
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
Kandri Manganese Mines L1=83.060 Ha Site, Dist;- Nagpur (M.S).	Type of Monitoring	Ambient Air
	Test Location	Near hospital
	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

#### RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	12.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	17.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10 micron</sub>	μg/M³	63.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	30.5	≤ 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	0.359	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	3.7	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	μg/M³	BDL	≤5	
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	<u>-3</u> ≤1	IS 5182
11	Arsenic (As)	ng/ M³	BDL	<u> </u>	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.

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## Quarter January- February- March 2023

### Test Report

Report Number: MITCON/2022-23/February/2913

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2913/8
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
Kandri Manganese Mines L1=83.060 Ha Site, Dist:-	Type of Monitoring	Ambient Air
	Test Location	Near Haul Road
Nagpur (M.S),	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/	SSE
		•				hrs.(Avg)	

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M³	12.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	μg/M³	18.5	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	69.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	hg\W₃	32.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	μg/M³	4.2	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	
07	Carbon Monoxide (CO)	mg/M³	0.436	≤ 2.0	APHA - AAS
08	Ammonia (NH <sub>3</sub> )	μg/M³	4.6	≤ 2.0 ≤ 400	IS 5182
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	μg/M <sup>3</sup>	BDL		APHA - 401
10	Benzo(a)Pyrene (BaP)	ng/ M³		≤5	IS 5182
11	Arsenic (As)		BDL	≤1	IS 5182
12	Nickel (Ni)	ng/ M³	BDL	≤6	APHA - AAS
	[ Micker(MI) .	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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## Quarter January- February- March 2023

### **Test Report**

Report Number: MITCON/2022-23/February/2913

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2913/9
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
Kandri Manganese Mines L1=83.060 Ha Site, Distr-Nagpur (M.S).	Type of Monitoring	Ambient Air
	Test Location	Near staff colony
	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

#### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

#### **RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M <sup>3</sup>	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	μg/M³	17.0	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	60.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	28.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	μg/M³	3.5	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.318	≤ 2.0	APHA - AAS
08	Ammonia (NH₃)	μg/M³	3.6	<u>≤ 2.0</u> ≤ 400	IS 5182
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	μg/M³	BDL	≤5	APHA - 401
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL		IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤1	IS 5182
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 6 ≤ 20	APHA - AAS APHA - AAS

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#### **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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## **Quarter January- February- March 2023**

### **Test Report**

Report Number: MITCON/2022-23/February/2913

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2913/10
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
Kandri Manganese Mines L1=83.060 Ha Site,	Type of Monitoring	Ambient Noise
Dist:-Nagpur (M.S).	Monitoring Done By	MITCON

#### **READINGS**

Sr. No.	Test Location	Unit	Readings
01	Near compressor room	dB(A)	69.5
02	Mine Pit	dB(A)	66.8
03	Near work shop	dB(A)	67.9
04	Near ventilation fan	dB(A)	68.8
	Near ventuation fan	dB(A)	68.8

#### **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.

<u> Kいつさんし</u>) Checked By

(Mrs. Kadambari Deshmukh)

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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/2913

Issue Date:27/02/2023

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2913/1	
	Name of Sample	Ground Water	
Kandri Manganese Mines L1=83.060 Ha Site,	Sample Details	Staff colony Bore well water	
ist:-Nagpur (M.S)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	18/02/2023	
	Date of Sample Receipt	20/02/2023	
	Analysis Start Date	20/02/2023	
	End Date of Analysis	27/02/2023	

## **ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.3	mg/l	N.S.	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	[G202E Doub 40 (D.A., 2000)
04	Total Dissolved Solids	267.8	mg/l	≤500	IS: 3025 Part-10 (R.A : 2002)  APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	128.56	mg/l	≤200	APHA 2340 C; 2-69 to 2-70, 23rd Ed 2017 APHA 2340 C ;2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	48.52	mg/I	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
. 07	Magnesium as Mg	23.24	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	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	125,14	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	45.14	mg/l	≤ 250	
12	Sulphate as SO4	20.32	mg/l	≤ 200	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤0.3	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	8.25	mg/l	≤45	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A: 2014)
17	colour	< 5	HZ	≤ 5	IS: 1622 (R.A : 2014) 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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## Quarter January- February- March 2023

### Test Report

Report Number: MITCON/2022-23/February/2913

Issue Date:27/02/2023

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2913/2	
andri Management Baliner I a on occ ver all	Name of Sample	Ground Water	
Kandri Manganese Mines L1=83.060 Ha Site,	Sample Details	Officer Colony water supply	
ist:-Nagpur (M,S)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	18/02/2023	
	Date of Sample Receipt	20/02/2023	
	Analysis Start Date	20/02/2023	
	End Date of Analysis	27/02/2023	

### **ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.22	-	6.5 to 8.5	APHA (500 HL & 4 OF 22-45-12047
02	Total suspended solids	8.5	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	
04	Total Dissolved Solids	230.4	mg/l	≤500	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO3	115.2	mg/l	≤200	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 APHA 2340 C, 2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	45.20	mg/i	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	15.23	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	105.18	Mg/l	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	ADIIA 4500 5 D 4 00
11	Chloride as Cl	42.12	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
12	Sulphate as SO4	21.36	mg/I	≤ 200	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	7.52	mg/l	≤45	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 1622 (R.A : 2014) 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)

Muthorized Signatory

(Dr.Sandeep Jadhav) Senior Vice President

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## Quarter January- February- March 2023

## **Test Report**

Report Number: MITCON/2022-23/February/2913

Issue Date:27/02/2023

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2913/3	
	Name of Sample	Waste water	
Kandri Manganese Mines L1=83.060 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	18/02/2023	
	Date of Sample Receipt	20/02/2023	
	Analysis Start Date	20/02/2023	
*	End Date of Analysis	27/02/2023	

**ANALYSIS RESULTS** 

Sr. No.	Characteristic			Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.14	15 4 15 15 E	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed, 2017
02	Dissolved Oxygen	2.8	mg/l		IS: 3025 Part 38
03	Chemical Oxygen Demand	73.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.2	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	30.4	mg/i	32733	- 現一を基を基としては、1.3mm
06	Oil and grease			100	APHA 2540 D,2-70 to 2-71 23 <sup>rd</sup> Ed 2017
		< 5.0	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese KS / OBSERVATIONS:	0.32	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/2913

Issue Date:27/02/2023

Client's Name & Address		Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2913/4			
	Name of Sample	Waste water			
Kandri Manganese Mines L1=83.060 Ha Site,	Sample Details	STP Outlet (treated 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	18/02/2023			
	Date of Sample Receipt	20/02/2023			
	Analysis Start Date	20/02/2023			
	End Date of Analysis	27/02/2023			

**ANALYSIS RESULTS** 

Sr. No.	Characteristic	Results Unit		Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.24		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.3	mg/l	<b>_</b>	IS: 3025 Part 38
03	Chemical Oxygen Demand	42.5	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	18.0	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	24.6	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	<5	mg/l	100	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.30	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/2913

Issue Date:27/02/2023

Client's Name & Address	Name of Sample Waste water  Sample Details ETP outlet at workshop  Container Details 1 lit plastic can  Sample Collected By MITCON  Method of sampling IS 3025(Part I)		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2913/5	
Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S)	Name of Sample		
	Sample Details	ETP outlet at workshop	
	Container Details	1 lit plastic can	
	Sample Collected By		
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	18/02/2023	
,	Date of Sample Receipt	20/02/2023	
	Analysis Start Date	20/02/2023	
	End Date of Analysis	27/02/2023	

**ANALYSIS RESULTS** 

Sr. No.	Lin C				Test Methods
01	pH at 25°C	7.11		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.1	mg/l		IS: 3025 Part 38
03	Chemical Oxygen Demand	89.4	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	24.6	mg/i	30	IS :3025 (Part 44)
05	Total suspended solids	45.6	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	6.9	mg/l		The state of the s
07	Manganese	0.48	mg/l	10	APHA 5520 B,5-42 to 5-43 23 <sup>rd</sup> Ed 2017 APHA 3111 B,3-18 to 3-21 23 <sup>rd</sup> Ed 2017

REMARKS / OBSERVATIONS:

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## Quarter January- February- March 2023

### **Test Report**

Report Number: MITCON/2022-23/February/2809

issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2809/3
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
Kandri Railway siding, Dist:-Nagpur (M.S)	Type of Monitoring	Ambient Air
	Test Location	In front of weigh bridge
	Monitoring Done By	MITCON
	Date of Analysis	20/02/2023

### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M³	12.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	18.0	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	70.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	35.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃) .	μg/M³	4.3	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.426	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	4.7	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	<u> </u>	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.

CON CONSULTANC For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs.Kadambari Deshmukh)

Aยชา้อrized Signatory Dr. Sandeep Jadhav Senior vice president

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Quarter January- February- March 2023

**Test Report** 

Report Number: MITCON/2022-23/February/2809

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2809/4	
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023	
	Type of Monitoring	Ambient Air	
Kandri Railway siding, Dist:-Nagpur (M.S)	Test Location	End Point of Railway Siding	
	Monitoring Done By	MITCON	
	Date of Analysis	20/02/2023	

#### **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
34	34	21	15	1440	0.0	11.4 km/ hrs.(Avg)	SSE

### RESULT

Sr.	Description	Unit	Results	CPCB standard	Test Method
No.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## 1 # 1 # 4		SACTOR SACRAGES
01	Sulphur Dioxide (SO <sub>2</sub> )	μg/M³	12.9	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	18.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	63.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5 micron</sub>	μg/M³	32.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	μg/M³	4.1	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.380	≤ 2.0	IS 5182
80	Ammonia (NH <sub>3</sub> )	μg/M³	4.4	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

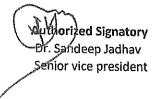
### **REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

kuneuh Checked By

(Mrs.Kadambari Deshmukh)



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## Quarter January- February- March 2023

## **Test Report**

Report Number: MITCON/2022-23/February/2809

Issue Date:27/02/2023

Client's Name & Address	Reference No.	MITCON/2022-23/February/2809/5
M/s MOIL LIMITED,	Date of Monitoring	18/02/2023
	Type of Monitoring	Ambient Noise
Kandri Railway siding, Dist:-Nagpur (M.S)	Monitoring Done By	MITCON

#### **READINGS**

Sr. No.	Test Location	Unit	Readings
01	In front of weigh bridge	dB(A)	65.9
02	Railway Siding	dB(A)	63.2

#### **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

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## Quarter January- February- March 2023

### **Test Report**

Report Number: MITCON/2022-23/February/2809

Issue Date: 27/02/2023

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2809/1		
	Name of Sample	Ground Water		
Kandri Railway siding, Dist:-Nagpur (M.S)	Sample Details	Railway siding at Bore well		
	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	18/02/2023		
	Date of Sample Receipt	20/02/2023		
	Analysis Start Date	20/02/2023		
	End Date of Analysis	27/02/2023		

#### **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	7.1	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	15:300±0°+40./0.4. 00000
04	Total Dissolved Solids	280.0	mg/l	≤500	APHA 7540 C 3 504- 3 70 22 15 15 15 15 15 15 15 15 15 15 15 15 15
05	Total Hardness as CaCO3	141.20	mg/l	≤200	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 APHA 2340 C, 2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	58.23	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	23.02	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	130.25	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	60.23	mg/l	≤ 250	APHA 4500 CL D 4 75 to 4-912370 Ed 2017
12	Sulphate as SO4	54.23	mg/l	≤ 200	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	10.25	mg/l	≤ <b>4</b> 5	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 1622 (R.A : 2014) 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.

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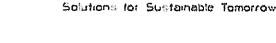
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## Quarter January- February- March 2023

### **Test Report**

Report Number: MITCON/2022-23/February/2809

Issue Date:27/02/2023

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/February/2809/2		
	Name of Sample	Ground Water		
Kandri Railway siding, Dist:-Nagpur (M.S)	Sample Details	Near old colony Bore well		
	Container Details	1 lit plastic can MITCON		
	Sample Collected By			
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	18/02/2023		
	Date of Sample Receipt	20/02/2023		
	Analysis Start Date	20/02/2023		
	End Date of Analysis	27/02/2023		

#### **ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.29	-	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	(S: 3025 Part+10 (R.A : 2002)
04	Total Dissolved Solids	298.0	mg/l	≲ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	142.20	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	50.23	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	26.25	mg/l	≾30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
09	Mangnese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
10	Total Alkalinity as Caco3	132.25	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
11	Fluoride as F	< 0.1	Mg/I	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
12	Chloride as Cl	25.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Sulphate as SO4	42.28	mg/l	≤ 200	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Iron as Fe	< 0.05	mg/l	≤0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	Nitrate as NO3	12.12	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	E.coll	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
18	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
09	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.

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