

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

**Test Report**

Report Number : MITCON/2022-23/December/12270

Issue Date:15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LA= 4.070 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12270/2
	Date of Monitoring	08/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Pit Office
	Monitoring Done By	MITCON
	Date of Analysis	10/12/2022

**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
29	29	18	55	1440	0.0	7.8 km/ hrs.(Avg)	ESE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	13.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	19.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	69.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	30.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.3	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.462	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.7	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

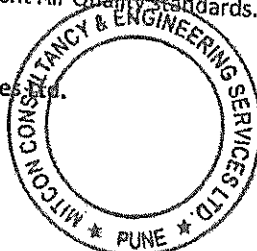
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*Kudambari*  
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.

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

Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005,  
Ph. No. 66289405/400, email: emelab@mitconindia.com  
• ISO 45001:2018 (OHSAS) Certified Laboratory.  
• MoEF & CC recognized laboratory



Format No. EME/LAB/Format 7.8/TR

**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12270

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12270/3
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L4= 4.070 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	08/12/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

**READINGS**

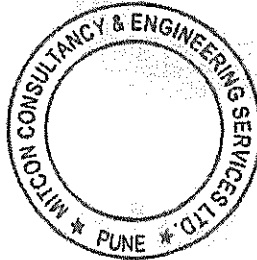
Sr. No.	Test Location	Unit	Readings
01	Near Pit Office	dB(A)	67.8

**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.

Kudambari  
Checked By  
(Mrs. Kadambari Deshmukh)



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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12270

Issue Date:15/12/2022

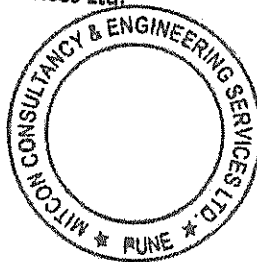
Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L4= 4.070 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Sample Code	MITCON/2022-23/December/12270/1
	Name of Sample	Waste Water
	Sample Details	ETP Outlet (Near Work Shop)
	Container Details	1 lit plastic can
	Sample Collected By	MITCON MITCON/2022-23/December/12270/1
	Method of sampling	IS 3025(Part I)
	Sample Collected On	08/12/2022
	Date of Sample Receipt	10/12/2022
	Analysis Start Date	10/12/2022
End Date of Analysis	15/12/2022	

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	3.4	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	54.8	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	19.5	mg/l	30	IS:3025 (Part 44)
05	Total suspended solids	41.2	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	< 5.0	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.29	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12269

Issue Date:15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site,, P.O.Dongri Buzurg, Tah. Tunsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12269/3
	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near haulage road View point
	Monitoring Done By	MITCON
	Date of Analysis	08/12/2022

**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
28	28	19	53	1440	0.0	6.45 km/hrs.(Avg)	E

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	66.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	29.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.8	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.450	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	5.0	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

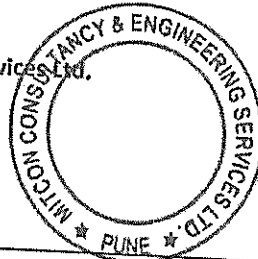
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*Kadambari*  
 Checked By

(Mrs.Kadambari Deshmukh)



*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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12269

Issue Date:15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site,, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12269/4
	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Hospital
	Monitoring Done By	MITCON
	Date of Analysis	08/12/2022

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
28	28	19	53	1440	0.0	6.45 km/ hrs.(Avg)	E

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	11.5	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.1	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	59.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	26.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.5	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.440	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	5.6	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

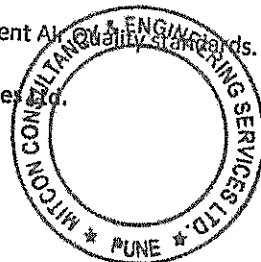
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & 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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12269

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12269/5
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

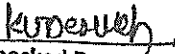
READINGS

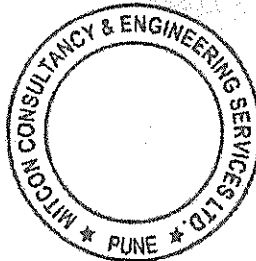
Sr. No.	Test Location	Unit	Readings
01	Haulage Road View Point	dB(A)	69.2
02	Near Mine Hospital	dB(A)	52.0


REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

  
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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12269

Issue Date:15/12/2022

Client's Name & Address		Sample Details	
<b>M/s MOIL LIMITED,</b>  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)		Sample Code	MITCON/2022-23/December/12269/1
		Name of Sample	Ground Water
		Sample Details	Piezometer Borewell
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	06/12/2022
		Date of Sample Receipt	08/12/2022
		Analysis Start Date	08/12/2022
		End Date of Analysis	15/12/2022

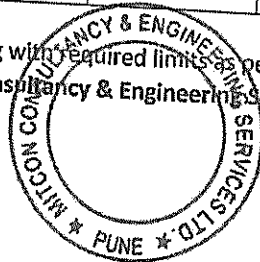
**ANALYSIS RESULTS**

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	267.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO <sub>3</sub>	129.52	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	12.15	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 <sub>3</sub>	115.4	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	14.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO <sub>4</sub>	10.25	mg/l	≤ 200	APHA 4500 -SO <sub>4</sub> -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 <sub>3</sub>	3.18	mg/l	≤ 45	APHA 4500 NO <sub>3</sub> -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.

Checked By Kadambari  
 (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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12269

Issue Date:15/12/2022

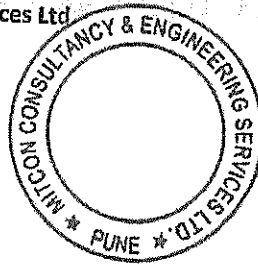
Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L3= 46.250Ha Site, , P.O.Dongri Buzurg. Tah. Tumsar, Dist. Bhandara – 441907 (M.S)		Sample Code	MITCON/2022-23/December/12269/2
		Name of Sample	Waste Water (Mine Pit Discharge)
		Sample Details	Mine Pit Discharge
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	06/12/2022
		Date of Sample Receipt	08/12/2022
		Analysis Start Date	08/12/2022
End Date of Analysis	15/12/2022		

ANALYSIS RESULTS					
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.29	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.9	mg/l	-	IS: 3025 Part 38
03	Chemical Oxygen Demand	71.3	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	19.4	mg/l	30	IS:3025 (Part 44)
05	Total suspended solids	28.0	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	0.41	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd

*Kudesh*  
 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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12268

Issue Date:15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12268/3
	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Siren Room dump
	Monitoring Done By	MITCON
	Date of Analysis	08/12/2022

**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
28	28	19	53	1440	0.0	6.45 km/ hrs.(Avg)	E

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.7	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	20.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	63.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	29.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.342	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.5	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

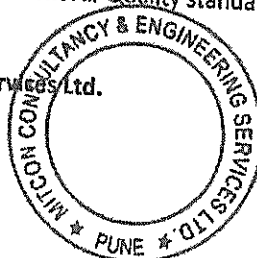
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*Kadambari*  
 Checked By

(Mrs.Kadambari Deshmukh)



*(Signature)*  
 Authorized Signatory  
 Dr. Sandeep Jadhav  
 Senior vice president

- 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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12268

Issue Date:15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12268/4
	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Dongri Village
	Monitoring Done By	MITCON
	Date of Analysis	08/12/2022

**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
28	28	19	53	1440	0.0	6.45 km/ hrs.(Avg)	E

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	59.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter. PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	24.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.8	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.361	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.0	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

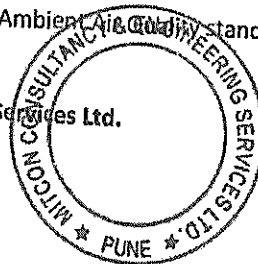
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*Kadambari*  
 Checked By

(Mrs.Kadambari Deshmukh)



*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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12268

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12268/5
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Dongri Village	dB(A)	53.5
02	Near Siren room dump	dB(A)	69.2

REMARKS / OBSERVATIONS:

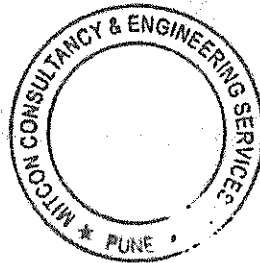
Limits: The Maharashtra Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

For MITCON Consultancy & Engineering Services Ltd.

*Kupesh*

Checked By

(Mrs. Kadambari Deshmukh)



*JD*

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 October- November- December 2022

**Test Report**

Report Number : MITCON/2022-23/December/12268

Issue Date:15/12/2022


Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)		Sample Code	MITCON/2022-23/December/12268/1
		Name of Sample	Waste Water
		Sample Details	Pond near Filter plant
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	06/12/2022
		Date of Sample Receipt	08/12/2022
		Analysis Start Date	08/12/2022
		End Date of Analysis	15/12/2022

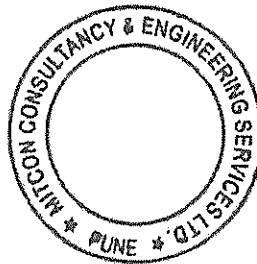
**ANALYSIS RESULTS**


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.12	-	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	54.0	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	35.1	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	< 5	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.39	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & 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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12268

Issue Date:15/12/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L2= 53.980 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)		Sample Code	MITCON/2022-23/December/12268/2
		Name of Sample	Waste Water (Mine Seepage water)
		Sample Details	Mine Seepage water
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	06/12/2022
		Date of Sample Receipt	08/12/2022
		Analysis Start Date	08/12/2022
End Date of Analysis	15/12/2022		

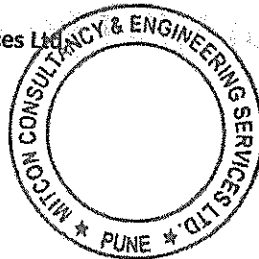
ANALYSIS RESULTS					
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.25	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.9	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	67.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.4	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	31.5	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	0.33	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

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 October- November- December 2022

**Test Report**

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12267/5
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Work Shop
	Monitoring Done By	MITCON
	Date of Analysis	08/12/2022

**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
28	28	19	53	1440	0.0	6.45 km/hrs.(Avg)	E

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	13.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	20.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	68.0	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	36.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.404	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.4	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

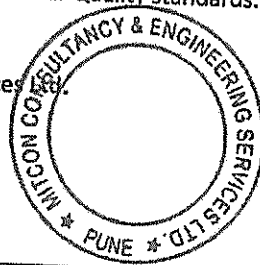
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*Kadambari*  
Checked By

(Mrs.Kadambari Deshmukh)



*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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

<b>Client's Name &amp; Address</b>  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	<b>Reference No.</b>	MITCON/2022-23/December/12267/6
	<b>Date of Monitoring</b>	06/12/2022
	<b>Type of Monitoring</b>	Ambient Air
	<b>Test Location</b>	Near Mine Magazine
	<b>Monitoring Done By</b>	MITCON
	<b>Date of Analysis</b>	08/12/2022

**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
28	28	19	53	1440	0.0	6.45 km/hrs.(Avg)	E

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	59.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	28.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.5	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.432	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.7	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

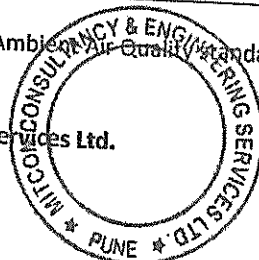
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*KODAMBARI*  
 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 October- November- December 2022

**Test Report**

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12267/7
	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Kurumunda Gram Panchayat Office
	Monitoring Done By	MITCON
	Date of Analysis	08/12/2022

**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
28	28	19	53	1440	0.0	6.45 km/hrs.(Avg)	E

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	11.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	55.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	26.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.3	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.280	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.4	≤ 400	APHA - 401
09	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12			BDL	≤ 20	APHA - AAS

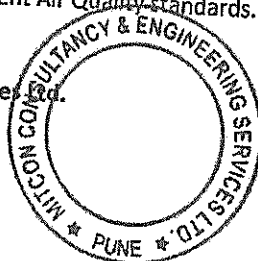
**REMARKS/OBSERVATIONS:**

- 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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12267/8
	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Railway Station
	Monitoring Done By	MITCON
	Date of Analysis	08/12/2022

**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
28	28	19	53	1440	0.0	6.45 km/ hrs.(Avg)	E

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	56.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	25.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.1	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.218	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.2	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

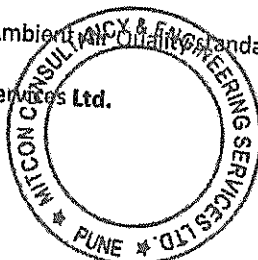
**REMARKS/OBSERVATIONS:**

- > 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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12267/9
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	06/12/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON


READINGS

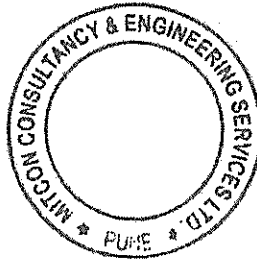
Sr. No.	Test Location	Unit	Readings
01	Near Haulage Road	dB(A)	61.9
02	Near Crushing and Screening	dB(A)	71.5
03	Near Mine Magazine	dB(A)	55.8
04	Mine Workshop	dB(A)	65.4


REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & 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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address		Sample Details	
<b>M/s MOIL LIMITED,</b>  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)		Sample Code	MITCON/2022-23/December/12267/1
		Name of Sample	Ground Water
		Sample Details	Work Shop Bore well
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	06/12/2022
		Date of Sample Receipt	08/12/2022
		Analysis Start Date	08/12/2022
		End Date of Analysis	15/12/2022

**ANALYSIS RESULTS**

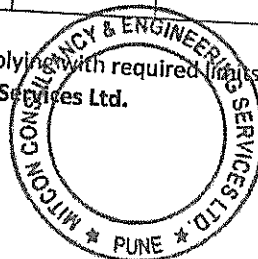
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.23	-	6.5 to 8.5	
02	Total suspended solids	< 5	mg/l	N.S	APHA 4500 H+, A, 4-95, 23rd Ed 2017 APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	
04	Total Dissolved Solids	284.0	mg/l	≤ 500	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO3	138.52	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	34.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	18.25	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	130.5	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	42.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	13.01	mg/l	≤ 200	APHA 4500 -SO4 -E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	2.45	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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)		Sample Code	MITCON/2022-23/December/12267/2
		Name of Sample	Ground Water
		Sample Details	Old Pit Reservoir
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	06/12/2022
		Date of Sample Receipt	08/12/2022
		Analysis Start Date	08/12/2022
		End Date of Analysis	15/12/2022

**ANALYSIS RESULTS**

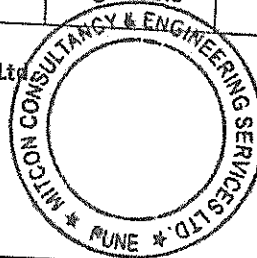
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	6.5 to 8.5	
02	Total suspended solids	<5	mg/l	N.S	APHA 4500 H+, A, 4-95, 23rd Ed 2017 APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	267.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	130.29	mg/l	≤200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	32.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.25	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	<0.1	mg/l	<0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	132.29	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	26.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	14.25	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	5.57	mg/l	≤45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

**REMARKS / OBSERVATIONS:**

For MITCON Consultancy & Engineering Services Ltd

Checked By Kadambari

(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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines L1= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara -- 441907 (M.S)	Sample Code	MITCON/2022-23/December/12267/3
	Name of Sample	Ground water
	Sample Details	Kurumuda Pond
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	06/12/2022
	Date of Sample Receipt	08/12/2022
	Analysis Start Date	08/12/2022
	End Date of Analysis	15/12/2022

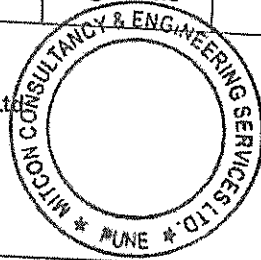
**ANALYSIS RESULTS**

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	< 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	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	263.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	135.25	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	13.29	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	137.45	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	25.15	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	12.25	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	3.27	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 October- November- December 2022**

Test Report

Report Number : MITCON/2022-23/December/12267

Issue Date: 15/12/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Manganese Mines LI= 69.500 Ha Site, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)		Sample Code	MITCON/2022-23/December/12267/4
		Name of Sample	Ground water
		Sample Details	Pond Near Shiv Mandir
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	06/12/2022
		Date of Sample Receipt	08/12/2022
		Analysis Start Date	08/12/2022
		End Date of Analysis	15/12/2022

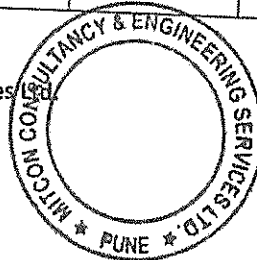
**ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.17		6.5 to 8.5	
02	Total suspended solids	<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	246.8	mg/l	≤ 500	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO3	122.12	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	40.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	10.25	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	110.12	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	
11	Chloride as Cl	28.26	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
12	Sulphate as SO4	13.25	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 -SO4 -E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	5.48	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)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-4 (Rev.1, RA 2012) IS: 3025 Part-5 (Rev.1, RA 2012)

**REMARKS / OBSERVATIONS:**

For MITCON Consultancy & Engineering Services Ltd.

Checked By Kumeth  
 (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 October- November- December 2022

**Test Report**

Report Number : MITCON/2022-23/December/12271

Issue Date:15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Reference No.	MITCON/2022- 23/December/12271/3
	Date of Monitoring	08/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Siding Office
	Monitoring Done By	MITCON
	Date of Analysis	10/12/2022

**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
29	29	18	55	1440	0.0	7.8 km/ hrs.(Avg)	ESE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.3	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	62.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	30.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.3	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.429	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	4.4	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

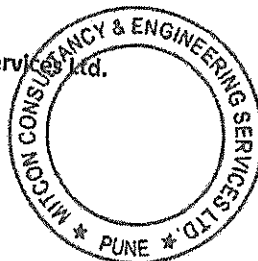
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By  
*Kadambari*

(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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12271

Issue Date:15/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Reference No.	MITCON/2022-23/December/12271/4
	Date of Monitoring	08/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Loading Area
	Monitoring Done By	MITCON
	Date of Analysis	10/12/2022

**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
29	29	18	55	1440	0.0	7.8 km/ hrs.(Avg)	ESE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	18.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	67.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	31.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	4.8	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.462	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	5.0	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

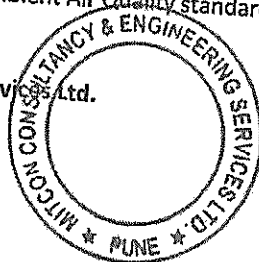
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12271

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12271/5
M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	08/12/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

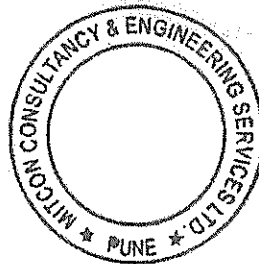
Sr. No.	Test Location	Unit	Readings
01	Drilling Machine	dB(A)	17.2
02	Loading Area	dB(A)	67.2

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.

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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12271

Issue Date:15/12/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)		Sample Code	MITCON/2022-23/December/12271/1
		Name of Sample	Ground Water
		Sample Details	Borewell near Balapur Hamasha Camp
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	08/12/2022
		Date of Sample Receipt	10/12/2022
		Analysis Start Date	10/12/2022
		End Date of Analysis	15/12/2022

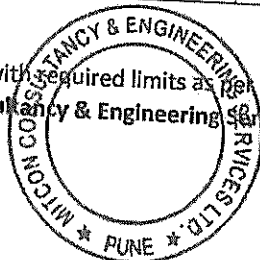
**ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.30	-	6.5 to 8.5	
02	Total suspended solids	< 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	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	245.7	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	120.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	32.25	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.2	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	108.13	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	24.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.45	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	4.52	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:**

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

Checked By Kadambari  
 (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 October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12271

Issue Date:15/12/2022

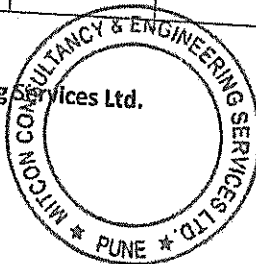
Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Dongri Buzurg Railway Siding, P.O.Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)		Sample Code	MITCON/2022-23/December/12271/2
		Name of Sample	Ground Water
		Sample Details	Kurumunda Village
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	08/12/2022
		Date of Sample Receipt	10/12/2022
		Analysis Start Date	10/12/2022
		End Date of Analysis	15/12/2022

**ANALYSIS RESULTS**

Sr. No.	Parameters	Results	Unit	Limits as per IS	Test Methods
01	pH at 25C	7.09	-	10500:2012	
02	Total suspended solids	< 5	mg/l	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
03	Turbidity	<1	NTU	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
04	Total Dissolved Solids	234.4	mg/l	≤ 1	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO <sub>3</sub>	114.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
06	Calcium as Ca	32.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
07	Magnesium as Mg	13.52	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
09	Total Alkalinity as CaCO <sub>3</sub>	106.52	Mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
10	Fluoride as F	< 0.1	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
11	Chloride as Cl	32.12	mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
12	Sulphate as SO <sub>4</sub>	20.42	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 200	APHA 4500 -SO <sub>4</sub> - -E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO <sub>3</sub>	4.42	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	≤ 45	APHA 4500 NO <sub>3</sub> -B, 4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	Absent	IS: 1622 (R.A : 2014)
18	odour	Agreeable	Agreeable	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
				Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

**REMARKS / OBSERVATIONS:**

For MITCON Consultancy & Engineering Services Ltd.  
 Checked By Kuberbari  
 (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.