

Format No. EME/LAB/Format 7.8/TR

**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12264

Issue Date:13/12/2022

<b>Client's Name &amp; Address</b>	<b>Reference No.</b>	MITCON/2022-23/December/12264/9
M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist:-Bhandara (M.S)	<b>Date of Monitoring</b>	05/12/2022
	<b>Type of Monitoring</b>	Ambient Noise
	<b>Monitoring Done By</b>	MITCON

**READINGS**

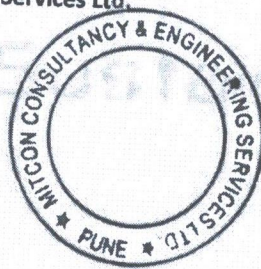
Sr. No.	Test Location	Unit	Readings
01	Near Work Shop	dB(A)	60.2
02	Near vertical Fan	dB(A)	72.0
03	Near Crushing Plant	dB(A)	69.0
04	Near DG Set	dB(A)	66.1

**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.

*Kvdeshmukh*  
Checked By  
(Mrs. Kadambari Deshmukh)



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

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**MITCON Consultancy & Engineering Services Ltd.**

Environment Management and Engineering Division

(Environmental Laboratory)

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

Ph. No. 66289405/400, email: emelab@mitconindia.com

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**Quarter October- November- December 2022****Test Report**

Report Number : MITCON/2022-23/December/12264

Issue Date:13/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist:-Bhandara (M.S)	Sample Code	MITCON/2022-23/December/12264/1
	Name of Sample	Waste water
	Sample Details	STP Outlet
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	05/12/2022
	Date of Sample Receipt	07/12/2022
	Analysis Start Date	07/12/2022
	End Date of Analysis	13/12/2022

**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	4.1	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	62.8	mg/l	250	APHA 5220 C,5-20 to 5-21 23 <sup>rd</sup> Ed 2017
04	Biochemical Oxygen	19.5	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	32.2	mg/l	100	APHA 2540 D,2-70 to 2-71 23 <sup>rd</sup> Ed 2017
06	Oil and grease	< 5	mg/l	10	APHA 5520 B,5-42 to 5-43 23 <sup>rd</sup> Ed 2017
07	Manganese	0.24	mg/l	2	APHA 3111 B,3-18 to 3-21 23 <sup>rd</sup> Ed 2017

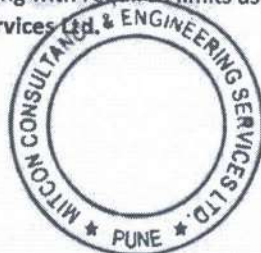
**REMARKS / OBSERVATIONS:**

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

For MITCON Consultancy &amp; Engineering Services Ltd. &amp; ENGINEERING SERVICES LTD.

Checked By  
*Kydesulleh*

(Mrs. Kadambari Deshmukh)

Authorized Signatory  
(Dr. Sandeep Jadhav)  
Senior Vice President

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12264

Issue Date:13/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist:-Bhandara (M.S)	Sample Code	MITCON/2022-23/December/12264/2
	Name of Sample	Ground Water
	Sample Details	Officer colony water supply
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	05/12/2022
	Date of Sample Receipt	07/12/2022
	Analysis Start Date	07/12/2022
	End Date of Analysis	13/12/2022

**ANALYSIS RESULTS**

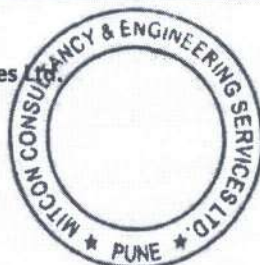
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.0	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	330.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	165.15	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	41.28	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	20.64	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	145.1	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	32.01	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.12	mg/l	≤ 200	APHA 4500 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	4.30	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

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 Environment Management and Engineering Division  
 (Environmental Laboratory)

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**Test Report**

Report Number : MITCON/2022-23/December/12264

Issue Date:13/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist:-Bhandara (M.S)	Sample Code	MITCON/2022-23/December/12264/3
	Name of Sample	Waste water
	Sample Details	ETP Outlet
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	05/12/2022
	Date of Sample Receipt	07/12/2022
	Analysis Start Date	07/12/2022
	End Date of Analysis	13/12/2022

**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	3.8	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	86.7	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	22.6	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	38.5	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	0.30	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

**REMARKS / OBSERVATIONS:**

For MITCON Consultancy & Engineering Services Ltd.

Checked By *Kadambari*

(Mrs. Kadambari Deshmukh)



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

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Client's Name & Address	Sample Details	
M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist:-Bhandara (M.S)	Sample Code	MITCON/2022-23/December/12264/4
	Name of Sample	Waste water (Mine Discharge water)
	Sample Details	Mine Discharge water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	05/12/2022
	Date of Sample Receipt	07/12/2022
	Analysis Start Date	07/12/2022
	End Date of Analysis	13/12/2022

**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	3.4	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	71.4	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.6	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	36.2	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	< 5	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.38	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

**REMARKS / OBSERVATIONS:**

For MITCON Consultancy &amp; Engineering Services Ltd.

Checked By  
(Mrs. Kadambari Deshmukh)Authorized Signatory  
(Dr. Sandeep Jadhav)  
Senior Vice President

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Report Number : MITCON/2022-23/December/12264

Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist- Bhandara (M.S)	Reference No.	MITCON/2022- 23/December/12264/5
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Office
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**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
30	30	14	41	1440	0.0	7.5 km/hrs.(Avg)	NE

**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>	16.1	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	58.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	27.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.6	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.270	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.8	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (NI)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*Kudambari*  
Checked By

(Mrs.Kadambari Deshmukh)



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

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12264

Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist:- Bhandara (M.S)	Reference No.	MITCON/2022- 23/December/12264/6
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Sita Sawangi Village
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**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
30	30	14	41	1440	0.0	7.5 km/ hrs.(Avg)	NE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	11.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	15.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	55.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	26.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.0	≤ 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>	0.208	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.1	≤ 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

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12264

Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist- Bhandara (M.S)	Reference No.	MITCON/2022- 23/December/12264/7
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Durga Chowk
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**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
30	30	14	41	1440	0.0	7.5 km/ hrs.(Avg)	NE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	64.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	13.9	≤ 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>	0.314	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.6	≤ 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.

*Kurpotech*  
 Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory  
 Dr. Sandeep Jadhav  
 Senior vice president

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Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Chikla Manganese Mines L1=150.650 Ha Site, Dist:- Bhandara (M.S)	Reference No.	MITCON/2022- 23/December/12264/8
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Vertical
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**OBSERVATION**

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity hrs.(Avg)	Wind Direction
30	30	14	41	1440	0.0	7.5 km/	NE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	64.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	34.8	≤ 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>	0.394	≤ 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

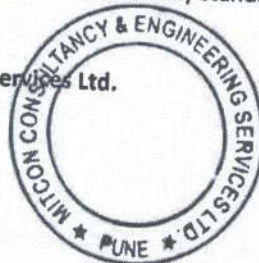
**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory  
 Dr. Sandeep Jadhav  
 Senior vice president

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12265

Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Pathari Sand Lease 40.410 Ha Site, Dist:-Bhandara (M.S)	Reference No.	MITCON/2022-23/December/12265/5
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Pathari Sand Lease from 500 m
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**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
30	30	14	41	1440	0.0	7.5 km/hrs.(Avg)	NE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	11.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	15.9	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	56.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	24.3	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.0	≤ 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>	0.244	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.4	≤ 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

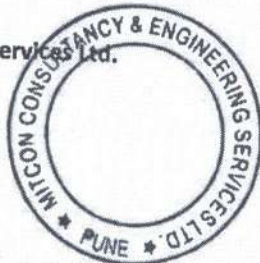
**REMARKS/OBSERVATIONS:**

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

MITCON Consultancy & Engineering Services Ltd.

Checked By *Kudambari*

(Mrs. Kudambari Deshmukh)



Authorized Signatory  
Dr. Sandeep Jadhav  
Senior vice president

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12265

Issue Date:13/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12265/6
M/s MOIL LIMITED,  Pathari Sand Lease 40.410 Ha Site, Dist:-Bhandara (M.S).	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Haul Road of Sand Lease 2 km east
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**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
30	30	14	41	1440	0.0	7.5 km/ hrs.(Avg)	NE

**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>	16.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	58.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	29.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	2.6	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.284	≤ 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)



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

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12265

Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Pathari Sand Lease 40.410 Ha Site, Dist:-Bhandara (M.S).	Reference No.	MITCON/2022-23/December/12265/7
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Point of Sand lease
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**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
30	30	14	41	1440	0.0	7.5 km/hrs.(Avg)	NE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	16.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	55.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	24.6	≤ 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>	0.304	≤ 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)



*Sandeep Jadhav*  
 Authorized Signatory  
 Dr. Sandeep Jadhav  
 Senior vice president

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12265

Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Pathari Sand Lease 40.410 Ha Site, Dist:-Bhandara (M.S).	Reference No.	MITCON/2022-23/December/12265/8
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Pathari Village
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**OBSERVATION**

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity hrs.(Avg)	Wind Direction
30	30	14	41	1440	0.0	7.5 km/hrs.(Avg)	NE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	10.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	15.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	52.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	23.1	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	2.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.228	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.3	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

**REMARKS/OBSERVATIONS:**

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

For MITCON Consultancy & Engineering Services Ltd.

*Kadambari*  
Checked By

(Mrs.Kadambari Deshmukh)



*SJ*  
Authorized Signatory  
Dr. Sandeep Jadhav  
Senior vice president

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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12265

Issue Date:13/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12265/9
M/s MOIL LIMITED,  Pathari Sand Lease 40.410 Ha Site, Dist- Bhandara (M.S).	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

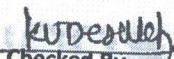
READINGS

Sr. No.	Test Location	Unit	Readings
01	Pathari Sand Lease from 500 m	dB(A)	56.9
02	Haul Road of Sand Lease 2 km East	dB(A)	59.0
03	Point of Sand Lease	dB(A)	61.0
04	Pathari Village	dB(A)	55.0

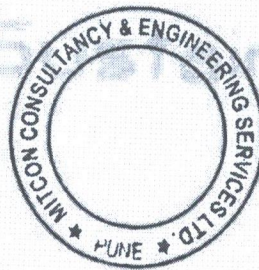
REMARKS / OBSERVATIONS:

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)

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## Quarter October- November- December 2022

### Test Report

Report Number : MITCON/2022-23/December/12266

Issue Date:13/12/2022

Client's Name & Address M/s MOIL LIMITED,  Chikla Railway Siding, Dist:-Bhandara (M.S)	Reference No.	MITCON/2022-23/December/12266/3
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Weigh Bridge
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

### 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
30	30	14	41	1440	0.0	7.5 km/hrs.(Avg)	NE

### RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	13.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	64.5	≤ 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>	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>	0.390	≤ 2.0	IS 5182
08	Ammonia (NH <sub>3</sub> )	µg/M <sup>3</sup>	3.9	≤ 400	APHA - 401
09	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/M <sup>3</sup>	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M <sup>3</sup>	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M <sup>3</sup>	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M <sup>3</sup>	BDL	≤ 20	APHA - AAS

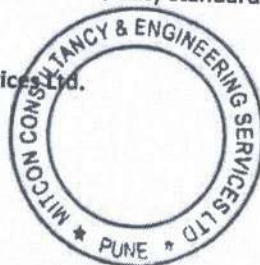
### REMARKS/OBSERVATIONS:

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

MITCON Consultancy & Engineering Services Ltd.

*Kadambari*  
Checked By

Mrs.Kadambari Deshmukh)



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

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12266

Issue Date:13/12/2022

Client's Name & Address  M/s MOIL LIMITED,  Chikla Railway Siding, Dist:-Bhandara (M.S).	Reference No.	MITCON/2022-23/December/12266/4
	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Railway Siding Area
	Monitoring Done By	MITCON
	Date of Analysis	07/12/2022

**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
30	30	14	41	1440	0.0	7.5 km/ hrs.(Avg)	NE

**RESULT**

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO <sub>2</sub> )	µg/M <sup>3</sup>	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO <sub>2</sub> )	µg/M <sup>3</sup>	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM <sub>10</sub> micron	µg/M <sup>3</sup>	66.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM <sub>2.5</sub> micron	µg/M <sup>3</sup>	28.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O <sub>3</sub> )	µg/M <sup>3</sup>	3.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M <sup>3</sup>	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M <sup>3</sup>	0.370	≤ 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

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Environment Management and Engineering Division

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**Quarter October- November- December 2022****Test Report**

Report Number : MITCON/2022-23/December/12266

Issue Date:13/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12266/5
M/s MOIL LIMITED, Chikla Railway Siding, Dist:-Bhandara (M.S).	Date of Monitoring	05/12/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

**READINGS**

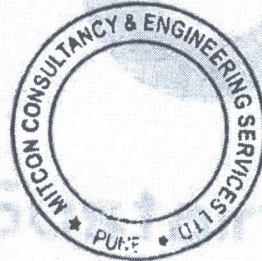
Sr. No.	Test Location	Unit	Readings
01	Weigh Bridge	dB(A)	63.8
02	Loading and Un Loading	dB(A)	65.9

**REMARKS / OBSERVATIONS:**

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

For MITCON Consultancy &amp; Engineering Services Ltd.

Kadambhari  
Checked By  
(Mrs. Kadambhari Deshmukh)



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

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**Quarter October- November- December 2022**

**Test Report**

Report Number : MITCON/2022-23/December/12266

Issue Date:13/12/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Chikla Railway Siding, Dist:-Bhandara (M.S)		Sample Code	MITCON/2022-23/December/12266/1
		Name of Sample	Ground Water
		Sample Details	Railway Siding Office Drinking water
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	05/12/2022
		Date of Sample Receipt	07/12/2022
		Analysis Start Date	07/12/2022
		End Date of Analysis	13/12/2022

**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	12.0	mg/l	N.S	APHA 4500 H+, A, 4-95, 23rd Ed 2017 APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	
04	Total Dissolved Solids	340.0	mg/l	≤ 500	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO3	170.1	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	42.5	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	21.25	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	150.2	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	32.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.11	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	3.49	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 of per IS 10500:2012.

For MITCON Consultancy & Engineering Services Ltd.

Checked By Kudambari

(Mrs. Kadambari Deshmukh)



Authorized Signatory  
(Dr. Sandeep Jadhav)  
Senior Vice President

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**Quarter October- November- December 2022****Test Report**

Report Number : MITCON/2022-23/December/12266

Issue Date:13/12/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,  Chikla Railway Siding, Dist-Bhandara (M.S)		Sample Code	MITCON/2022-23/December/12266/2
		Name of Sample	Ground Water
		Sample Details	Railway Siding Water supply
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	05/12/2022
		Date of Sample Receipt	07/12/2022
		Analysis Start Date	07/12/2022
		End Date of Analysis	13/12/2022

**ANALYSIS RESULTS**

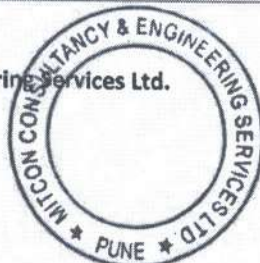
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.23	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	14.0	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	346.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	173.0	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	20.18	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	140.4	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	32.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.19	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	5.78	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

**REMARKS / OBSERVATIONS:**

For MITCON Consultancy &amp; Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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