

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12525

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12525/5
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	07/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Admin Office
	Monitoring Done By	MITCON
	Date of Analysis	09/12/2022

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
24	24	19	55	1440	0.0	8.4 km/ hrs.(Avg)	SE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	13.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	18.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	64.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	33.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.2	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.404	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.6	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

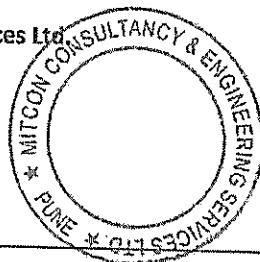
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari Deshmukh
Checked By

(Mrs.Kadambari Deshmukh)



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

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12525

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12525/7
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	07/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Main Gate
	Monitoring Done By	MITCON
	Date of Analysis	09/12/2022

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
24	24	19	55	1440	0.0	8.4 km/ hrs.(Avg)	SE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	14.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	21.9	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	69.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	34.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	5.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.526	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	5.8	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

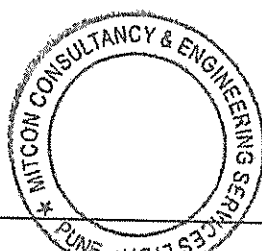
REMARKS/OBSERVATIONS:

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- > BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Checked By
Kadambari Deshmukh

(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/12525

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12525/8
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	07/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near ETP
	Monitoring Done By	MITCON
	Date of Analysis	09/12/2022

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
24	24	19	55	1440	0.0	8.4 km/ hrs.(Avg)	SE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	18.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	60.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	30.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.3	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.408	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.5	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

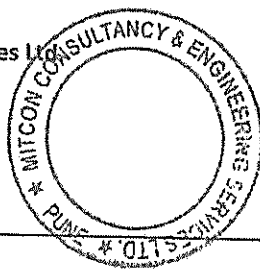
REMARKS/OBSERVATIONS:

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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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Test Report

Report Number : MITCON/2022-23/December/12525

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12525/6
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Date of Monitoring	07/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Boiler House
	Monitoring Done By	MITCON
	Date of Analysis	09/12/2022

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
24	24	19	55	1440	0.0	8.4 km/ hrs.(Avg)	SE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	13.7	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	18.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	70.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	36.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.9	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.482	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.3	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

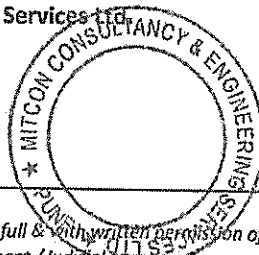
REMARKS/OBSERVATIONS:

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- 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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Test Report

Report Number : MITCON/2022-23/December/12525

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12525/9
M/s MOIL LIMITED,	Date of Monitoring	07/12/2022
Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Near Plant	dB(A)	56.1
02	Near Office	dB(A)	54.8
03	Near Boiler	dB(A)	66.0
04	Near Rectifier	dB(A)	70.5


REMARKS / OBSERVATIONS:

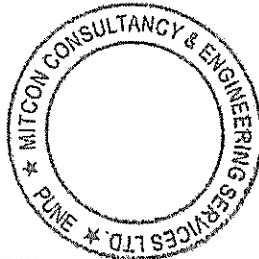
Limits: The Maharashtra Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

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/12525

Issue Date:15/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12525/10
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Date of Monitoring	07/12/2022
	Type of Monitoring	Stack Monitoring
	Test Location	CFB Boiler Stack
	Monitoring Done By	MITCON Team
	Date of Analysis	09/12/2022

RESULT

Sr. No.	Description	Unit	Stack #1	Method for reference	Permissible limit of consent
01	Stack Attached to	-	CFB Boiler	-	-
02	Stack Height	m	30 mtr	-	-
03	Area of stack	M2	0.28	-	-
04	Ambient Temp.	°C	24.0	-	-
05	Flue gas temperature	°C	139.0	-	-
06	Flue gas Velocity	m/sec	11.9	-	-
07	Total Particulate Matter (TPM)	Mg/Nm3	66.8	-	150
08	Sulphur Dioxide (SO ₂)	Kg/day	22.6	-	75
09	Oxides of Nitrogen (NO _x)	Mg/Nm3	3.7	-	-


REMARKS/OBSERVATIONS:

➤ 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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Test Report

Report Number : MITCON/2022-23/December/12525

Issue Date:15/12/2022

Client's Name & Address	Sample Details
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code
	Name of Sample
	Sample Details
	Container Details
	Sample Collected By
	Method of sampling
	Sample Collected On
	Date of Sample Receipt
	Analysis Start Date
	End Date of Analysis

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 CaCO ₃	135.2	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	38.25	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	13.25	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 CaCO ₃	120.5	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	23.52	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO ₄	12.25	mg/l	≤ 200	APHA 4500 -SO ₄ -E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO ₃	3.25	mg/l	≤ 45	APHA 4500 NO ₃ -B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

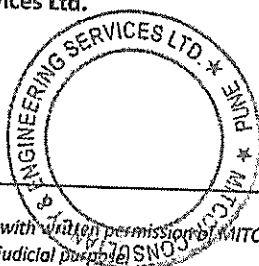
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By Kadambari

(Mrs. Kadambari Deshmukh)



Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Test Report

Report Number : MITCON/2022-23/December/12525

Issue Date:15/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/December/12525/3
	Name of Sample	Waste water
	Sample Details	ETP Inlet
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	07/12/2022
	Date of Sample Receipt	09/12/2022
	Analysis Start Date	09/12/2022
	End Date of Analysis	15/12/2022

ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	Test Methods
01	pH at 25°C	5.72	-	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.2	mg/l	IS: 3025 Part 38
03	Chemical Oxygen Demand	287.4	mg/l	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	53.7	mg/l	IS :3025 (Part 44)
05	Total suspended solids	62.0	mg/l	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	11.0	mg/l	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.64	mg/l	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

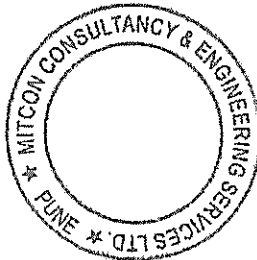
For MITCON Consultancy & Engineering Services Ltd.

Kadambari

Checked By

(Mrs. Kadambari Deshmukh)

(Signature)
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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

• ISO 45001:2018 (OHSAS) Certified Laboratory.

• MoEF & CC recognized laboratory



Solutions for Sustainable Tomorrow

Format No. EME/LAB/Format 7.8/TR

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

Report Number : MITCON/2022-23/December/12525

Issue Date:15/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara – 441907 (M.S)	Sample Code	MITCON/2022-23/December/12525/4
	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	07/12/2022
	Date of Sample Receipt	09/12/2022
	Analysis Start Date	09/12/2022
	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	7.17	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.5	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	67.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	19.8	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	37.0	mg/l	100	APHA 2540 D,2-70 to 2-71 23 rd Ed 2017
06	Oil and grease	7.1	mg/l	10	APHA 5520 B,5-42 to 5-43 23 rd Ed 2017
07	Manganese	0.42	mg/l	2	APHA 3111 B,3-18 to 3-21 23 rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

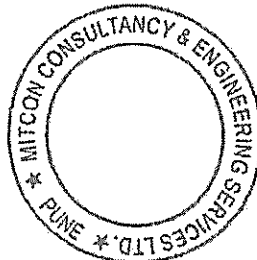
Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President



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Issue Date:15/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Dongri Buzurg EMD Plant, , P.O. Dongri Buzurg, Tah. Tumsar, Distt. Bhandara - 441907 (M.S)	Sample Code	MITCON/2022-23/December/12525/2
	Name of Sample	Ground Water
	Sample Details	Plant Side Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	07/12/2022
	Date of Sample Receipt	09/12/2022
	Analysis Start Date	09/12/2022
	End Date of Analysis	15/12/2022

ANALYSIS RESULTS

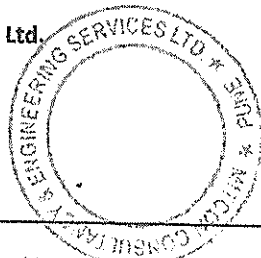
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	289.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO ₃	140.02	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	12.52	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO ₃	125.52	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	23.52	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO ₄	19.52	mg/l	≤ 200	APHA 4500 -SO ₄ - -E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO ₃	5.42	mg/l	≤ 45	APHA 4500 NO ₃ -B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform colour	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	odour	< 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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