

Format No. EME/LAB/Format 7.8/TR

Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/5
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist:-Balaghat(M.P)	Date of Monitoring	27/02/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Main Gate
	Monitoring Done By	MITCON
	Date of Analysis	01/03/2023

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
32	32	19	12	1440	0.0	9.0 km/ hrs.(Avg)	SSW

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	17.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	61.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	29.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.8	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.352	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.1	≤ 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

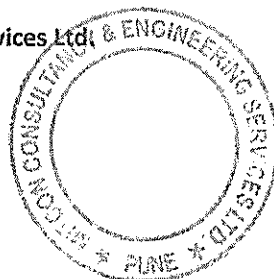
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep
Authorized Signatory

Dr. Sandeep Jadhav
Senior vice president

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/6
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist-Balaghat(M.P)	Date of Monitoring	27/02/2023
	Type of Monitoring	Ambient Air
	Test Location	Near Office
	Monitoring Done By	MITCON
	Date of Analysis	01/03/2023

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
32	32	19	12	1440	0.0	9.0 km/ hrs.(Avg)	SSW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	59.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	27.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.6	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.346	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.8	≤ 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

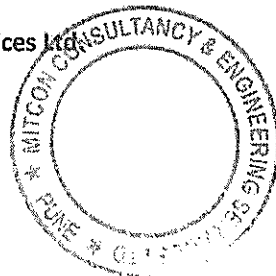
REMARKS/OBSERVATIONS:

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For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep
Authorized Signatory

Dr. Sandeep Jadhav
Senior vice president

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Quarter January- February- March 2023

Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/7
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist-Balaghat(M.P)	Date of Monitoring	27/02/2023
	Type of Monitoring	Ambient Air
	Test Location	Hirapur Village
	Monitoring Done By	MITCON
	Date of Analysis	01/03/2023

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
32	32	19	12	1440	0.0	9.0 km/ hrs.(Avg)	SSW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	56.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	26.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.2	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.240	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.4	≤ 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

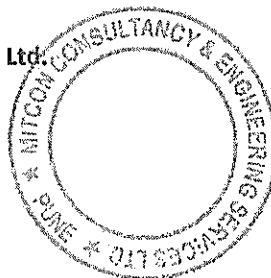
REMARKS/OBSERVATIONS:

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For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep Jadhav

Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

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Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/8
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist:-Balaghat(M.P)	Date of Monitoring	27/02/2023
	Type of Monitoring	Ambient Air
	Test Location	Near ARC Furnace
	Monitoring Done By	MITCON
	Date of Analysis	01/03/2023

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
32	32	19	12	1440	0.0	9.0 km/ hrs.(Avg)	SSW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	13.5	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	18.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	68.7	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	34.4	≤ 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	0.384	≤ 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

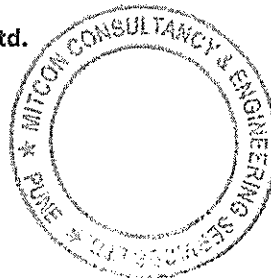
REMARKS/OBSERVATIONS:

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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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Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/9
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist:- Balaghat(M.P)	Date of Monitoring	27/02/2023
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Near Main Gate	dB(A)	64.0
02	Near Office	dB(A)	54.7
03	Hirapur Village	dB(A)	51.0
04	Near ARC Furnace	dB(A)	70.9

REMARKS / OBSERVATIONS:

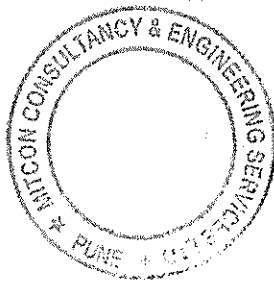
Limits: The Madhya Pradesh Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during daytime.

For MITCON Consultancy & Engineering Services Ltd.



Checked By

(Mrs. Kadambari Deshmukh)





Authorized Signatory

Dr. Sandeep Jadhav

(Senior Vice President)

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Quarter January- February- March 2023**Test Report**

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Reference No.	MITCON/2022-23/March/3159/10
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist-Balaghat(M.P)	Date of Monitoring	27/02/2023
	Type of Monitoring	Stack Monitoring
	Test Location	ARC Furnace Stack
	Monitoring Done By	MITCON Team
	Date of Analysis	01/03/2023

RESULT

Sr. No.	Description	Unit	Stack #1	Method for reference	Permissible limit of consent
01	Stack Attached to	-	ARC Furnace	-	-
02	Stack Height	m	30 mtr	-	-
03	Diameter of stack	M	1.0	-	-
04	Ambient Temp.	°C	32.0	-	-
05	Flue gas temperature	°C	140.0	-	-
06	Flue gas Velocity	m/sec	11.2	-	-
07	Total Particulate Matter (TPM)	Mg/Nm ³	43.8	-	50
08	Sulphur Dioxide (SO ₂)	Mg/Nm ³	52.0	-	600
09	Oxides of Nitrogen (NO _x)	Mg/Nm ³	23.0	-	300

REMARKS/OBSERVATIONS:

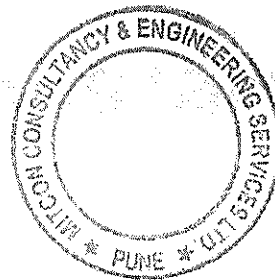
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For MITCON Consultancy & Engineering Services Ltd.



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Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist:- Balaghat(M.P)	Sample Code	MITCON/2022-23/March/3159/1
	Name of Sample	Ground Water
	Sample Details	Ferro Manganese Plant open dug well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	27/02/2023
	Date of Sample Receipt	01/03/2023
	Analysis Start Date	01/03/2023
	End Date of Analysis	08/03/2023

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.22	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	260.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	131.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	52.20	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	27.14	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	125.14	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	47.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	25.14	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	6.02	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)

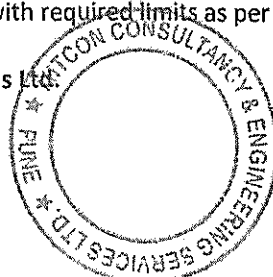
REMARKS / OBSERVATIONS:

- 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

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Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist- Balaghat(M.P)	Sample Code	MITCON/2022-23/March/3159/2
	Name of Sample	Ground Water
	Sample Details	Guest house water supply
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	27/02/2023
	Date of Sample Receipt	01/03/2023
	Analysis Start Date	01/03/2023
	End Date of Analysis	08/03/2023

ANALYSIS RESULTS

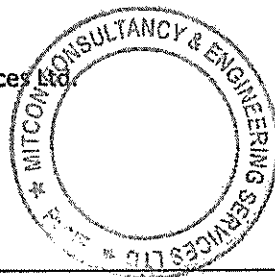
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.22	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	242.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	122.4	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	48.6	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	22.10	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	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	115.40	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	54.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	14.23	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	4.22	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

Kadambari
 Checked By

(Mrs. Kadambari Deshmukh)



(Signature)

Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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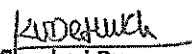
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist:- Balaghat(M.P)	Sample Code	MITCON/2022-23/March/3159/3
	Name of Sample	Waste water
	Sample Details	ETP Treated Water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	27/02/2023
	Date of Sample Receipt	01/03/2023
	Analysis Start Date	01/03/2023
	End Date of Analysis	08/03/2023

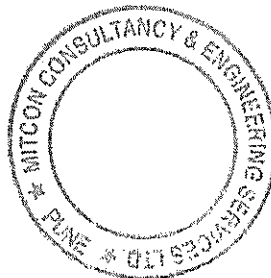
ANALYSIS RESULTS


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.21	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.2	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	62.6	mg/l	250	APHA 5220 C, 5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	19.3	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	22.8	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	0.29	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

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Test Report

Report Number : MITCON/2022-23/March/3159

Issue Date:08/03/2023

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Ferro Manganese Plant, Dist- Balaghat(M.P)	Sample Code	MITCON/2022-23/March/3159/4
	Name of Sample	Waste Water
	Sample Details	ETP Untreated Water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	27/02/2023
	Date of Sample Receipt	01/03/2023
	Analysis Start Date	01/03/2023
	End Date of Analysis	08/03/2023

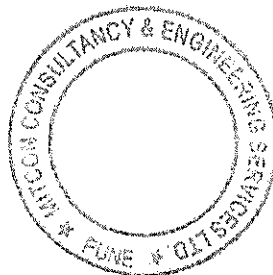
ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	Test Methods
01	pH at 25°C	6.92	-	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	1.8	mg/l	IS: 3025 Part 38
03	Chemical Oxygen Demand	345.2	mg/l	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	71.3	mg/l	IS :3025 (Part 44)
05	Total suspended solids	70.7	mg/l	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	11.9	mg/l	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.50	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)
Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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