

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11281

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11281/5
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist-Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Pench River Bank
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

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	15.9	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	54.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	24.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.310	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.6	≤ 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

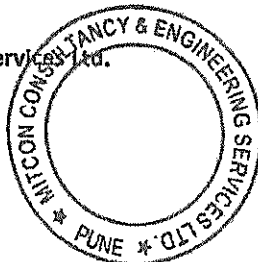
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
 Checked By

(Mrs.Kadambari Deshmukh)



Sandeep
 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/November/11281

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11281/6
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist-Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	500 m from River Bank
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

RESULT

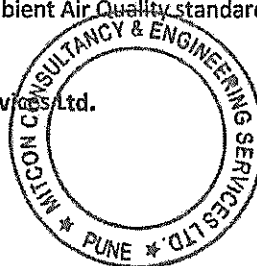
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	52.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	22.4	≤ 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	0.296	≤ 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:

- All above results are within National Ambient Air Quality standards.
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For MITCON Consultancy & Engineering Services Ltd.

Kadambari
 Checked By
 (Mrs.Kadambari Deshmukh)



Sandeep
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 Dr. Sandeep Jadhav
 Senior vice president

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Test Report

Report Number : MITCON/2022-23/November/11281

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11281/7
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Mahuli Village
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	59.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	32.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.318	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.7	≤ 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

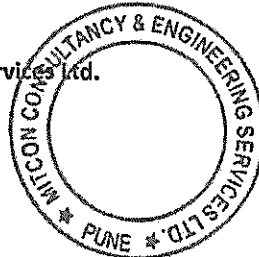
REMARKS/OBSERVATIONS:

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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/November/11281

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11281/8
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Kalaphata Village
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

RESULT

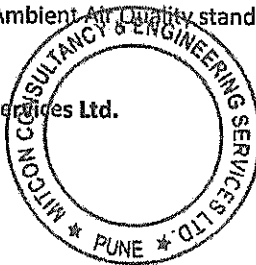
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	57.7	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	30.8	≤ 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	0.312	≤ 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:

- 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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Report Number : MITCON/2022-23/November/11281

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11281/9
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON


READINGS

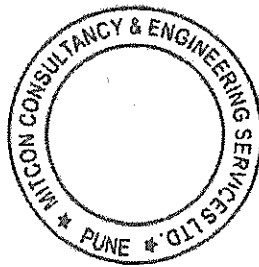
Sr. No.	Test Location	Unit	Readings
01	Pench River Bank	dB(A)	56.3
02	500 m. from River Bank	dB(A)	53.9
03	Mahuli Village	dB(A)	50.1
04	Kalaphata Village	dB(A)	47.7


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/November/11281

Issue Date:28/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11281/1
	Name of Sample	Ground Water
	Sample Details	Pench River Bank
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
	End Date of Analysis	28/11/2022

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.20	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	8.7	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	277.9	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	41.25	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	122.52	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	35.17	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.52	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	7.25	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)

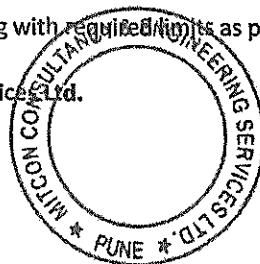
REMARKS / OBSERVATIONS:

- 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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Issue Date: 28/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11281/2
	Name of Sample	Ground Water
	Sample Details	500 m from River bank
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
End Date of Analysis	28/11/2022	

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.20	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	8.0	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	234.5	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	125.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	45.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	18.52	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 CaCO3	118.52	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	27.83	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.92	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	5.12	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)

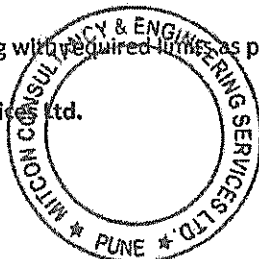
REMARKS / OBSERVATIONS:

- 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

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Issue Date:28/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11281/3
	Name of Sample	Ground Water
	Sample Details	Mahuli Village
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
	End Date of Analysis	28/11/2022

ANALYSIS RESULTS

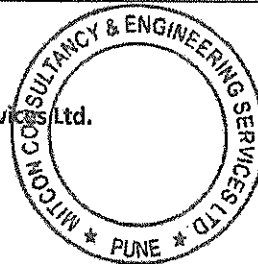
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.30	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	8.8	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	302.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	148.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	24.25	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed, 2017
07	Magnesium as Mg	15.12	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	131.08	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	34.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.25	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	5.25	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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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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Solutions for Sustainable Tomorrow

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Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11281/4
	Name of Sample	Ground Water
	Sample Details	Kalaphata Village
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
	End Date of Analysis	28/11/2022

ANALYSIS RESULTS

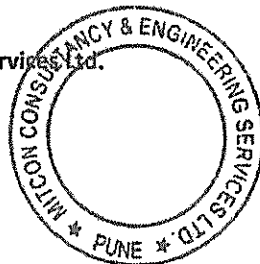
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	309.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	152.25	mg/l	≤200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	48.25	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	140.25	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	52.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	20.25	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	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:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



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/November/11279

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11279/6
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:- Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Pit
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/hrs.(Avg)	ENE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.4	≤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	62.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	27.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.7	≤ 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	4.1	≤ 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

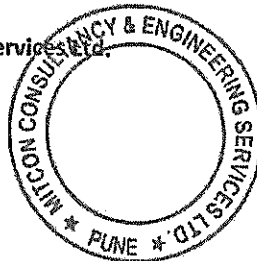
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kudambari
Checked By

(Mrs.Kadambari 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/November/11279

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11279/7
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near hospital
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE


RESULT

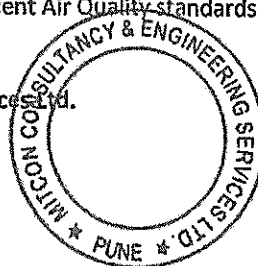
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.9	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	61.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	26.9	≤ 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	0.346	≤ 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:

- 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/November/11279

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11279/8
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S).	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Haul Road
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

RESULT

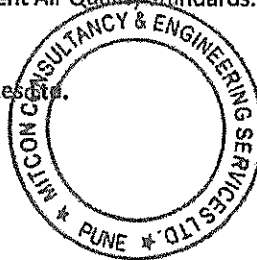
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	18.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	66.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	29.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.414	≤ 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:

- 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 October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11279

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11279/9
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near staff colony
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	56.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	24.2	≤ 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	0.302	≤ 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

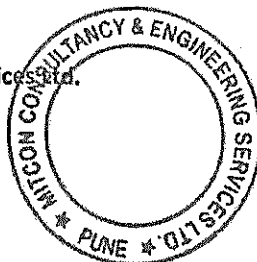
REMARKS/OBSERVATIONS:

- 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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Test Report

Report Number : MITCON/2022-23/November/11279

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11279/10
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S).	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

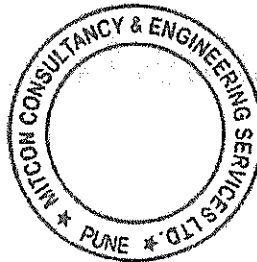
Sr. No.	Test Location	Unit	Readings
01	Near compressor room	dB(A)	71.9
02	Mine Pit	dB(A)	63.8
03	Near work shop	dB(A)	66.9
04	Near ventilation fan	dB(A)	70.5


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/November/11279

Issue Date:28/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11279/1
	Name of Sample	Ground Water
	Sample Details	Staff colony Bore well water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
	End Date of Analysis	28/11/2022

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.21	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.6	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	245.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	122.25	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	10.13	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	118.25	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	25.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	13.25	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	6.45	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)

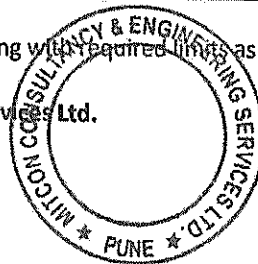
REMARKS / OBSERVATIONS:


- 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

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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11279

Issue Date:28/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11279/2
	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	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
End Date of Analysis	28/11/2022	

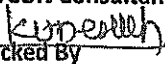
ANALYSIS RESULTS

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	7.9	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	246.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	130.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	58.25	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	24.15	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 CaCO3	125.25	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	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	6.29	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)

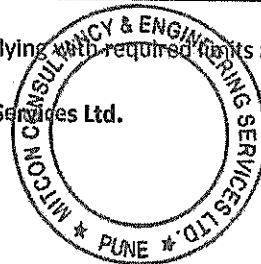
REMARKS / OBSERVATIONS:


- 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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11279

Issue Date:28/11/2022

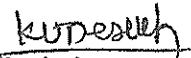
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11279/3
	Name of Sample	Waste water
	Sample Details	Mine Discharge water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
End Date of Analysis	28/11/2022	

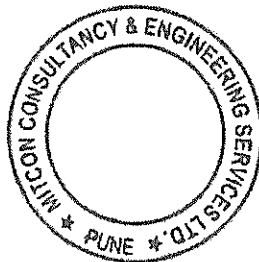
ANALYSIS RESULTS


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	2.4	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	64.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	20.0	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	32.1	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.


Checked By
(Mrs. Kadambari Deshmukh)




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(Dr. Sandeep Jadhav)
Senior Vice President

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Test Report

Report Number : MITCON/2022-23/November/11279

Issue Date:28/11/2022

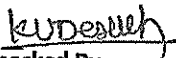
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11279/4
	Name of Sample	Waste water
	Sample Details	STP Outlet (treated water)
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
	End Date of Analysis	28/11/2022

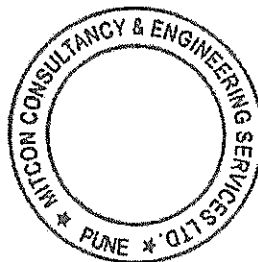
ANALYSIS RESULTS


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	2.9	mg/l	-	IS: 3025 Part 38
03	Chemical Oxygen Demand	46.3	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	18.7	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	34.8	mg/l	100	APHA 2540 D,2-70 to 2-71 23 rd Ed 2017
06	Oil and grease	< 5	mg/l	10	APHA 5520 B,5-42 to 5-43 23 rd Ed 2017
07	Manganese	0.31	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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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11279

Issue Date:28/11/2022

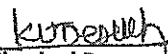
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kandri Manganese Mines L1=83.060 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11279/5
	Name of Sample	Waste water
	Sample Details	ETP outlet at workshop
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
End Date of Analysis	28/11/2022	

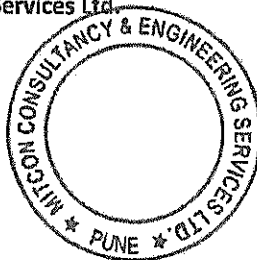
ANALYSIS RESULTS


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.18	-	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	78.9	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.5	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	43.2	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	6.2	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.42	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)




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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11280

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11280/3
M/s MOIL LIMITED, Kandri Railway siding, Dist:-Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	In front of weigh bridge
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

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	17.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	67.3	≤ 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	0.410	≤ 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:

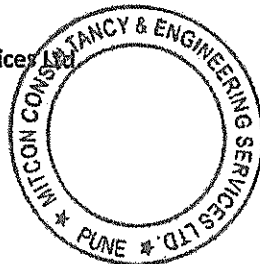

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.



Checked By

(Mrs.Kadambari Deshmukh)

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Test Report

Report Number : MITCON/2022-23/November/11280

Issue Date:28/11/2022

Client's Name & Address M/s MOIL LIMITED, Kandri Railway siding, Dist-Nagpur (M.S)	Reference No.	MITCON/2022-23/November/11280/4
	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Air
	Test Location	End Point of Railway Siding
	Monitoring Done By	MITCON
	Date of Analysis	21/11/2022

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	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.1	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	59.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	30.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.364	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.2	≤ 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

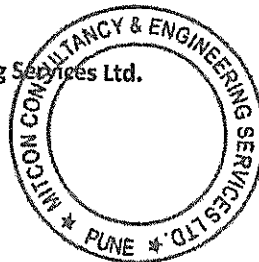
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kudambari
Checked By

(Mrs.Kadambari Deshmukh)



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

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Test Report

Report Number : MITCON/2022-23/November/11280

Issue Date:28/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11280/5
M/s MOIL LIMITED, Kandri Railway siding, Dist-Nagpur (M.S)	Date of Monitoring	18/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

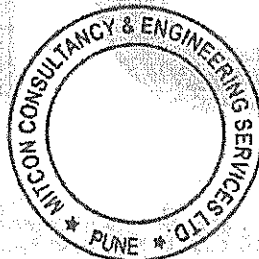
Sr. No.	Test Location	Unit	Readings
01	In front of weigh bridge	dB(A)	69.7
02	Railway Siding	dB(A)	65.2


REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

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Test Report

Report Number : MITCON/2022-23/November/11280

Issue Date:28/11/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED, Kandri Railway siding, Dist:-Nagpur (M.S)		Sample Code	MITCON/2022-23/November/11280/1
		Name of Sample	Ground Water
		Sample Details	Railway siding at Bore well
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	18/11/2022
		Date of Sample Receipt	21/11/2022
		Analysis Start Date	21/11/2022
		End Date of Analysis	28/11/2022

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	7.4	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	304.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	145.02	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	45.25	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed: 2017
07	Magnesium as Mg	22.12	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	135.12	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	57.12	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	6.25	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)

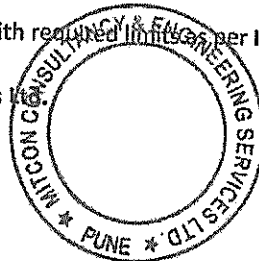
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By *Kadambari*

(Mrs. Kadambari Deshmukh)



Authorized Signatory
 (Dr. Sandeep Jadhav)
 Senior Vice President

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Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kandri Railway siding, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11280/2
	Name of Sample	Ground Water
	Sample Details	Near old colony Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
	End Date of Analysis	28/11/2022

ANALYSIS RESULTS

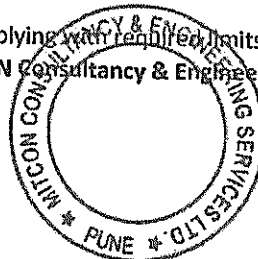
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	11.2	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	312.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	155.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	54.25	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
09	Manganese as mn	<0.1	mg/l	<0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
10	Total Alkalinity as CaCO3	134.25	Mg/l	<200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
11	Fluoride as F	<0.1	Mg/l	<1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
12	Chloride as Cl	23.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Sulphate as SO4	11.25	mg/l	≤ 200	APHA 4500 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017
14	Iron as Fe	<0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	Nitrate as NO3	4.48	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
16	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
18	colour	<5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
09	odour	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
 (Mrs. Kadambari Deshmukh)

For MITCON Consultancy & Engineering Services Ltd.



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 Senior Vice President

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