

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11283

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11283/2
M/s MOIL LIMITED, Beldongri Manganese Mines L2=12.990Ha Site, Dist:- Nagpur (M.S)	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near OCF
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/hrs.(Avg)	E

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	13.0	≤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	67.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	32.4	≤ 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	0.364	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.0	≤ 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

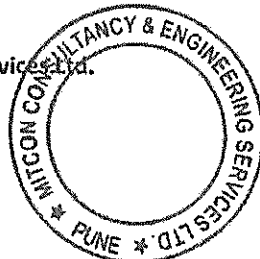
REMARKS/OBSERVATIONS:

- 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)



JV
Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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- Customer complaint register is available in the laboratory.

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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11283

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Beldongri Manganese Mines L2=12.990Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11283/1
	Name of Sample	Ground Water
	Sample Details	OCF Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

ANALYSIS RESULTS

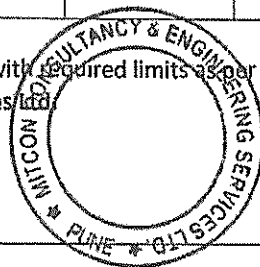
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.21	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.8	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	285.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	149.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	47.14	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	145.12	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	48.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	27.02	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	7.15	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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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.
- Recognized by MoEF & CC



Solutions for Sustainable Tomorrow

Format No. EME/LAB/Format 7.8/TR

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

Report Number : MITCON/2022-23/November/11283

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11283/3
M/s MOIL LIMITED, Beldongri Manganese Mines L2=12.990Ha Site, Dist:-Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON


READINGS

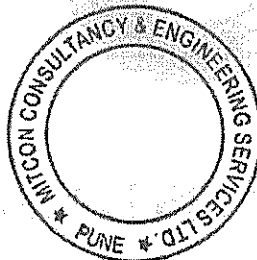
Sr. No.	Test Location	Unit	Readings
01	Near OCF	dB(A)	63.2


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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11282

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11282/5
M/s MOIL LIMITED, Beldongri Manganese Mines LI=26.660 Ha Site, Dist- Nagpur (M.S)	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Haul Road
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity hrs.(Avg)	Wind Direction
30	30	19	45	1440	0.0	8.3 km/hrs.(Avg)	E

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	65.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	31.4	≤ 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	0.338	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.0	≤ 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

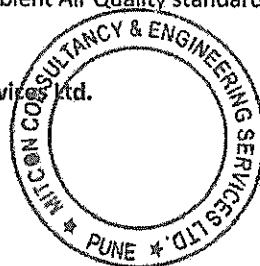
REMARKS/OBSERVATIONS:

- 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)



[Signature]
 Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

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Test Report

Report Number : MITCON/2022-23/November/11282

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11282/6
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Electric Sub Station
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	59.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	27.4	≤ 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	0.320	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.2	≤ 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.

Checked By
(Mrs.Kadambari Deshmukh)



Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Report Number : MITCON/2022-23/November/11282

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11282/7
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist-Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Staff Colony
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/hrs.(Avg)	E

RESULT

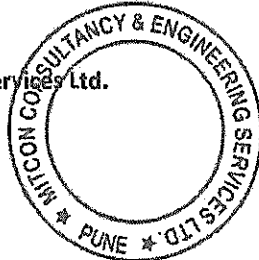
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	10.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	14.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	56.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	25.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	2.8	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.220	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.2	≤ 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.

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/11282

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11282/8
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Hospital
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

RESULT

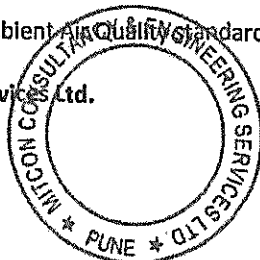
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	58.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	27.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	2.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.298	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.2	≤ 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.

Kudesh
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/11282

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11282/9
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist:-Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

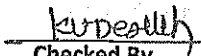
READINGS

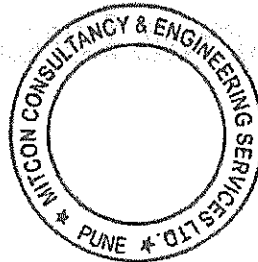
Sr. No.	Test Location	Unit	Readings
01	Near Compressor Room	dB(A)	69.4
02	Near Haul Road	dB(A)	66.9
03	Near Jack Hammer Drill	dB(A)	69.0
04	Near Vertical Fan	dB(A)	71.3


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

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Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11282/1
	Name of Sample	Ground Water
	Sample Details	Satak Village Borewell Water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

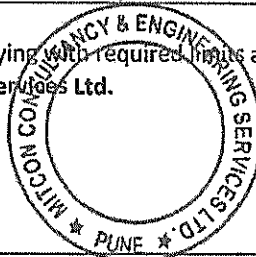
ANALYSIS RESULTS

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	7.8	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	243.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	120.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	38.25	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.45	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	107.45	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	25.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	17.45	mg/l	≤ 200	APHA 4500-SO4--E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	5.58	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 Jagdhav)
Senior Vice President

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Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11282/2
	Name of Sample	Ground Water
	Sample Details	Mine Office drinking water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

ANALYSIS RESULTS

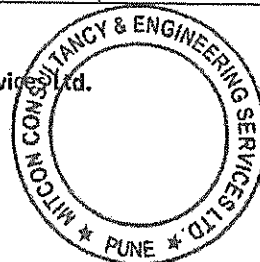
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.18	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.8	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS:3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	287.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	138.25	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	28.25	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	13.20	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	128.52	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	27.52	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.15	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	11.25	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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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11282

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11282/3
	Name of Sample	Ground water
	Sample Details	Staff colony borewell
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

ANALYSIS RESULTS

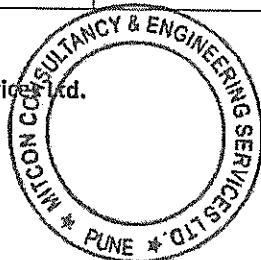
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.26	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	10.0	mg/l	N/S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	302.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	145.25	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
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	18.25	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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11282

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Beldongri Manganese Mines L1=26.660 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11282/4
	Name of Sample	Waste water
	Sample Details	Mine Discharge Water from underground 234 MRL
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
End Date of Analysis	21/11/2022	

ANALYSIS RESULTS

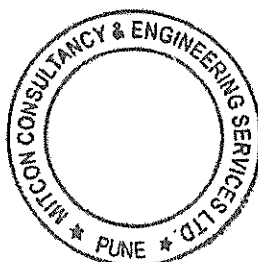
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.19	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.8	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	51.2	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	19.2	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	29.7	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	0.35	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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11284

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11284/5
M/s MOIL LIMITED, Satak Manganese Mines L1=8.680 Ha Site, Dist- Nagpur (M.S)	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Bankuri Road
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/hrs.(Avg)	E

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	15.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	58.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	29.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.344	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.2	≤ 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

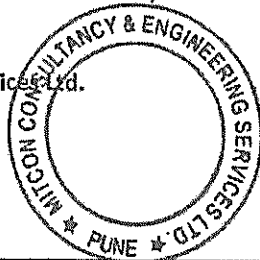

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs.Kadambari Deshmukh)



 Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

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Quarter October- November- December 2021

Test Report

Report Number : MITCON/2022-23/November/11284

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11284/6
M/s MOIL LIMITED, Satak Manganese Mines L1=8.680 Ha Site, Dist:- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Beldongri Road
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	60.5	≤ 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	3.4	≤ 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:

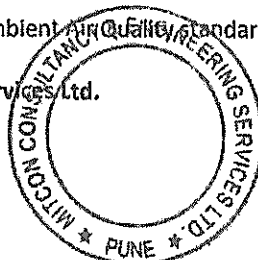

- > All above results are within National Ambient Air Quality Standards.
- > BDL: - Below Detection Limit.

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/11284

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11284/7
M/s MOIL LIMITED, Satak Manganese Mines L1=3.680 Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Satak Road
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

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	16.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	61.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	31.7	≤ 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	0.345	≤ 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

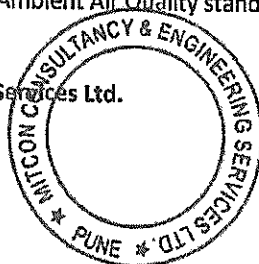
REMARKS/OBSERVATIONS:

- > 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/11284

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11284/8
M/s MOIL LIMITED, Satak Manganese Mines L1=8.680 Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Pit no. 2
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.6	≤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	66.8	≤ 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	4.3	≤ 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	4.6	≤ 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

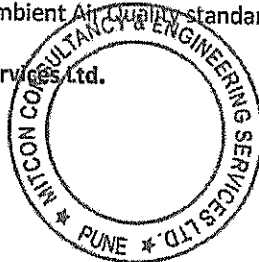
REMARKS/OBSERVATIONS:

- > 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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11284

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11284/9
M/s MOIL LIMITED, Satak Manganese Mines L1=8.680 Ha Site, Dist:- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Near Bankuri Road	dB(A)	55.9
02	Near Beldongri road	dB(A)	49.0
03	Near Satak Road	dB(A)	51.3
04	Near Pit no. 2	dB(A)	64.2

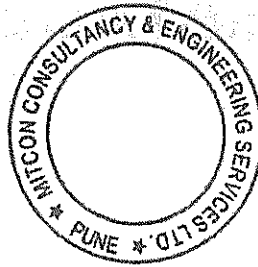
REMARKS / OBSERVATIONS:

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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11284

Issue Date:21/11/2022

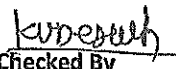
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines LI=8.680 Ha Site, Dist- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11284/1
	Name of Sample	waste Water
	Sample Details	Pit No. 2
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
End Date of Analysis	21/11/2022	

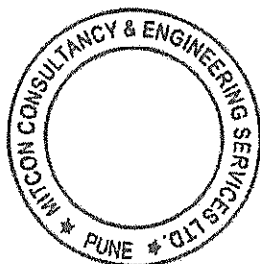
ANALYSIS RESULTS


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	2.8	mg/l	—	IS: 3025 Part 38
03	Chemical Oxygen Demand	71.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	21.3	mg/l	30	IS:3025 (Part 44)
05	Total suspended solids	32.8	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	0.38	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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Quarter October- November- December 2021

Test Report

Report Number : MITCON/2022-23/November/11284

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines LI=8.680 Ha Site, Dist- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11284/2
	Name of Sample	Waste water
	Sample Details	Pit No. 4
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
End Date of Analysis	21/11/2022	

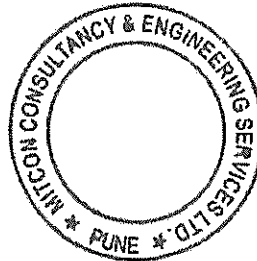
ANALYSIS RESULTS

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	2.9	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	54.3	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	19.5	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	33.4	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.

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/November/11284

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines L1=8.680 Ha Site, Dist- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11284/3
	Name of Sample	Ground water
	Sample Details	Mine Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

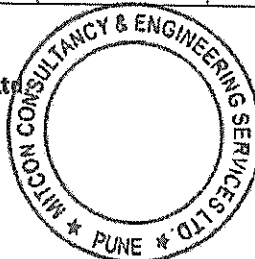
ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.17		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	5.6	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	312.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	154.05	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	35.12	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 CaCO3	148.25	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	56.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	12.52	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	7.52	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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11284

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines LI=8.680 Ha Site, Dist:- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11284/4
	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	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

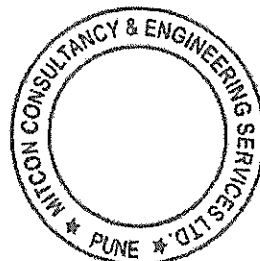
ANALYSIS RESULTS


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	3.6	mg/l	-	IS: 3025 Part 38
03	Chemical Oxygen Demand	65.3	mg/l	250	APHA 5220 C, 5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	20.3	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	29.8	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	0.32	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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11285

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11285/5
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist:- Nagpur (M.S)	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Pit
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

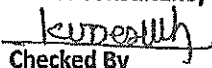
RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	69.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	33.4	≤ 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	0.326	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.0	≤ 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:

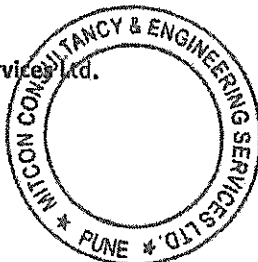

- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

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/11285

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11285/6
M/s MOIL LIMITED, Satak Manganese Mines I2=16.840Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near East Boundary Wall
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

RESULT

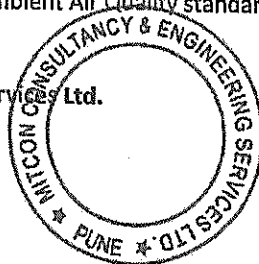
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	10.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	59.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	26.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.3	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.270	≤ 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.

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/11285

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11285/7
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near west Boundary Wall
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/hrs.(Avg)	E

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	15.6	≤ 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	24.4	≤ 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	0.294	≤ 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

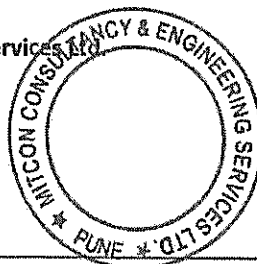
REMARKS/OBSERVATIONS:

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For MITCON Consultancy & Engineering Services Ltd.

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/11285

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11285/8
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Air
	Test Location	South Boundary wall
	Monitoring Done By	MITCON
	Date of Analysis	14/11/2022

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
30	30	19	45	1440	0.0	8.3 km/ hrs.(Avg)	E

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	54.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	22.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.1	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.294	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.3	≤ 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)



Sandeep
Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Test Report

Report Number : MITCON/2022-23/November/11285

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11285/9
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist:- Nagpur (M.S).	Date of Monitoring	11/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

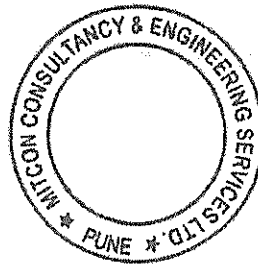
Sr. No.	Test Location	Unit	Readings
01	Near Mine Pit	dB(A)	56.7
02	Near East Boundary Wall	dB(A)	54.9
03	Near West Boundary Wall	dB(A)	53.2
04	Near South Boundary Wall	dB(A)	59.0


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/November/11285

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist:- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11285/1
	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	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
End Date of Analysis	21/11/2022	

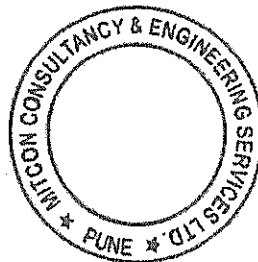
ANALYSIS RESULTS


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.19		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.4	mg/l	—	IS: 3025 Part 38
03	Chemical Oxygen Demand	55.7	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	19.5	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	25.8	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	0.41	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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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11285

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11285/2
	Name of Sample	Waste water
	Sample Details	Mine Pit Water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
End Date of Analysis	21/11/2022	

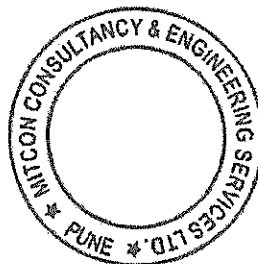
ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.29	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.4	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	65.4	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.3	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	29.5	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	0.47	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

K. Kadambari
Checked By
(Mrs. Kadambari Deshmukh)



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

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Test Report

Report Number : MITCON/2022-23/November/11285

Issue Date:21/11/2022

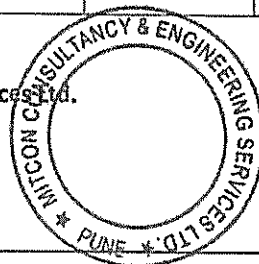

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist:- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11285/3
	Name of Sample	Ground water
	Sample Details	Hiwra Village Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

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	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	267.8	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO ₃	132.25	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	23.25	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	128.25	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	22.52	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO ₄	20.25	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	8.45	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:

For MITCON Consultancy & Engineering Services Ltd.

Checked By Kadambari
(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/11285

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Satak Manganese Mines L2=16.840Ha Site, Dist- Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11285/4
	Name of Sample	Ground Water
	Sample Details	Bankuri Village Bore well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	11/11/2022
	Date of Sample Receipt	14/11/2022
	Analysis Start Date	14/11/2022
	End Date of Analysis	21/11/2022

ANALYSIS RESULTS

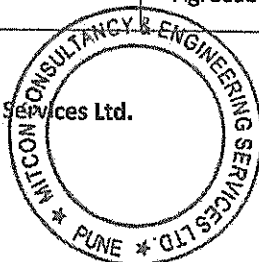
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.23	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	289.8	mg/l	≤500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	145.25	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	23.25	mg/l	≤30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	<0.1	mg/l	<0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	132.25	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	50.25	mg/l	≤250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	21.25	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	5.52	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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