

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- November 2022

Test Report

Report Number : MITCON/2022-23/November/11276

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11276/2
M/s MOIL LIMITED, Munsar Manganese Mines L4=0.970 Ha Site, Dist:- Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Wahi Tola Village
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 km/hrs.(Avg)	E

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	10.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	56.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	23.3	≤ 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	0.310	≤ 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:

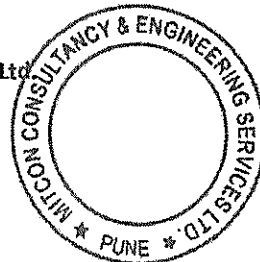
- All above results are within National Ambient Air Quality standards.
- BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.



Checked By

(Mrs.Kadambari Deshmukh)




Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

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- November 2022**Test Report**

Report Number : MITCON/2022-23/November/11276

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11276/3
M/s MOIL LIMITED, Munsar Manganese Mines L4=0.970 Ha Site, Dist:-Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Wahi Tola Village	dB(A)	53.8

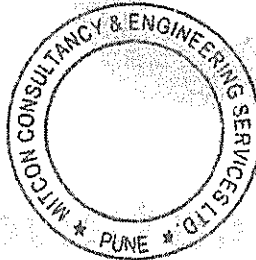
REMARKS / OBSERVATIONS:


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)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- November 2022

Test Report

Report Number : MITCON/2022-23/November/11276

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Manganese Mines L4=0.970 Ha Site, Dist-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11276/1
	Name of Sample	Ground Water
	Sample Details	VT Centre Borewell water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	End Date of Analysis	21/11/2022

ANALYSIS RESULTS

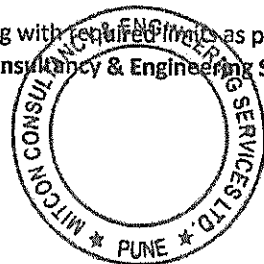
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.23	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	8.2	mg/l	NS	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	289.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	140.12	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	57.42	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	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	32.05	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	10.25	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	5.23	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.

Checked By
 (Mrs. Kadambari Deshmukh)

For MITCON Consultancy & Engineering Services Ltd.



Authorized Signatory
 (Dr. Sandeep Jadhav)
 Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11274

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11274/2
M/s MOIL LIMITED, Munsar Manganese Mines L2=5.740 Ha Site, Dist:-Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Old OCF
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 km/ hrs.(Avg)	E

RESULT

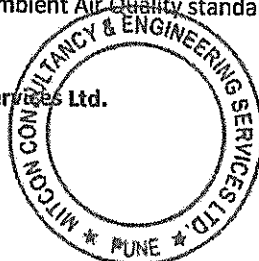
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	64.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	28.7	≤ 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	0.354	≤ 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

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/11274

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11274/3
M/s MOIL LIMITED, Munsar Manganese Mines L2=5.740 Ha Site, Dist:-Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON


READINGS

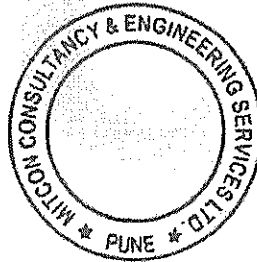
Sr. No.	Test Location	Unit	Readings
01	Old OCF	dB(A)	62.0


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)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11274

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Manganese Mines L2=5.740 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11274/1
	Name of Sample	Ground Water
	Sample Details	Old Durga Pit Water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part 1)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	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	7.19	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	7.3	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	264.5	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	122.58	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	38.62	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	12.24	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	110.82	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	30.25	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	12.10	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	5.2	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)

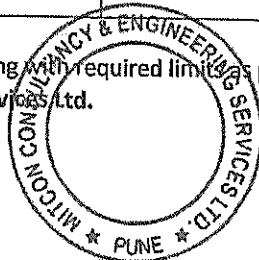
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11275

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11275/2
M/s MOIL LIMITED,	Date of Monitoring	10/11/2022
Munsar Manganese Mines 13=25.150 Ha Site, Dist- Nagpur (M.S)	Type of Monitoring	Ambient Air
	Test Location	Chargaon Village
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 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	53.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	24.6	≤ 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	0.240	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.4	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

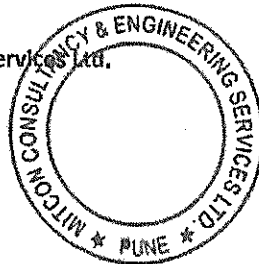
- > All above results are within National Ambient Air Quality standards.
- > BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.



Checked By

(Mrs.Kadambari Deshmukh)




Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

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/11275

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11275/3
M/s MOIL LIMITED, Munsar Manganese Mines L3=25.150 Ha Site, Dist:-Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

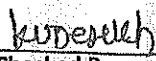
READINGS

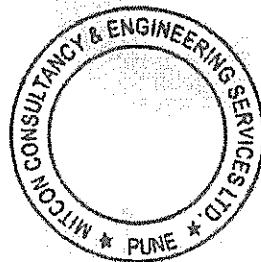
Sr. No.	Test Location	Unit	Readings
01	Chargaon Village	dB(A)	52.3


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)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11275

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Manganese Mines L3=25.150 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11275/1
	Name of Sample	Ground Water
	Sample Details	Staff Colony Borewell water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	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	5.5	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	287.5	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	40.23	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	13.26	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	130.26	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	45.25	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	6.52	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)

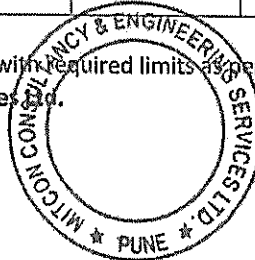
REMARKS / OBSERVATIONS:

- 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11273

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11273/5
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist- Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Admin building
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 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	16.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	60.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	30.5	≤ 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	0.326	≤ 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

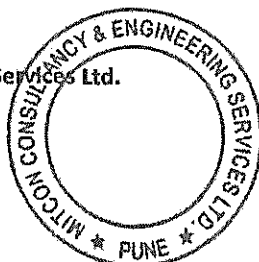
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11273

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11273/6
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist- Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Mine road(Near Work Shop)
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 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	16.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	61.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	31.6	≤ 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	0.348	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.8	≤ 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

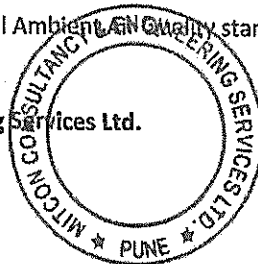
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kudambari
Checked By

(Mrs.Kadambari Deshmukh)



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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11273

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11273/7
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist:-Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	DSU Plant
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 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	17.9	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	63.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	32.0	≤ 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	0.360	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.4	≤ 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

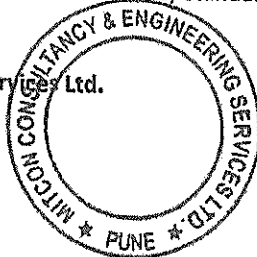
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11273

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11273/8
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist:- Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Pit Top (Mline)
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 km/	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	18.8	≤ 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	30.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.368	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	5.0	≤ 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	Nicel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

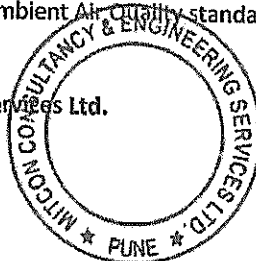
REMARKS/OBSERVATIONS:

- 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

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/11273

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11273/9
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist:-Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON


READINGS

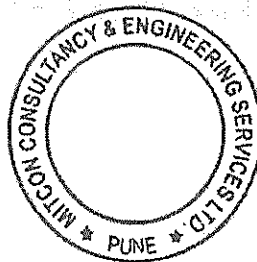
Sr. No.	Test Location	Unit	Readings
01	Admin building	dB(A)	56.7
02	Mine road(Near Work Shop)	dB(A)	63.8
03	DSU Plant	dB(A)	68.8
04	Pit Top (Mine)	dB(A)	65.9


REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11273

Issue Date: 21/11/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist:-Nagpur (M.S)		Sample Code	MITCON/2022-23/November/11273/1
		Name of Sample	Ground Water
		Sample Details	Near Office Borewell Water
		Container Details	1 lit plastic can
		Sample Collected By	MITCON
		Method of sampling	IS 3025(Part I)
		Sample Collected On	10/11/2022
		Date of Sample Receipt	12/11/2022
		Analysis Start Date	12/11/2022
		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	7.22	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.11	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	256.90	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	128.41	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	32.11	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	16.05	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	108.45	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	32.10	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.80	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	4.32	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)

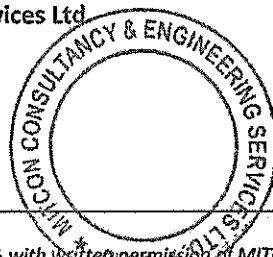
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd

Checked By
Kadambari Deshmukh

(Mrs. Kadambari Deshmukh)



Jadhav

Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11273

Issue Date:21/11/2022


Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist.-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11273/2
	Name of Sample	Waste Water
	Sample Details	Mine seepage water
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	End Date of Analysis	21/11/2022

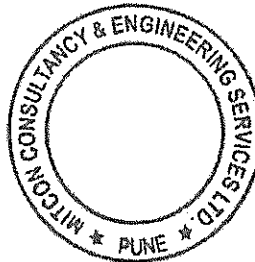
ANALYSIS RESULTS


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.23	-	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	67.8	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	23.1	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	38.0	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	< 5	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017
07	Manganese	0.29	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11273

Issue Date:21/11/2022

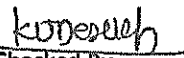
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Manganese Mines LI=108.630 Ha Site, Dist-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11273/3
	Name of Sample	Waste water
	Sample Details	ETP outlet at workshop
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	End Date of Analysis	21/11/2022

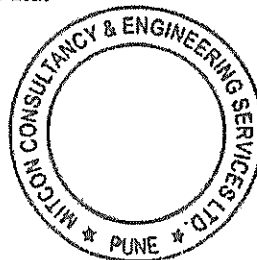
ANALYSIS RESULTS


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.21		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	67.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	20.7	mg/l	30	IS:3025 (Part 44)
05	Total suspended solids	22.3	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017
06	Oil and grease	6.1	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

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/11273

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Manganese Mines L1=108.630 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11273/4
	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	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
End Date of Analysis	21/11/2022	

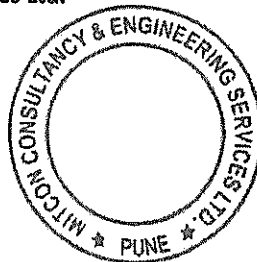
ANALYSIS RESULTS


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	4.8	mg/l	-	IS: 3025 Part 38
03	Chemical Oxygen Demand	46.3	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	17.3	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	21.0	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11278

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11278/3
M/s MOIL LIMITED, Munsar Railway siding, Dist-Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	In front of weigh bridge
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 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	16.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	64.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	29.5	≤ 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	0.384	≤ 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

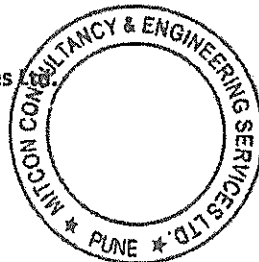
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services

Checked By
Kadambari

(Mrs.Kadambari Deshmukh)



Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11278

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11278/4
M/s MOIL LIMITED, Munsar Railway siding, Dist-Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	End Point of Railway Siding
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 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	17.1	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	62.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	25.6	≤ 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	0.360	≤ 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

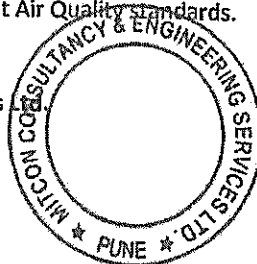
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services

Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

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



Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11278

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11278/5
M/s MOIL LIMITED, Munsar Railway siding, Dist-Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON


READINGS

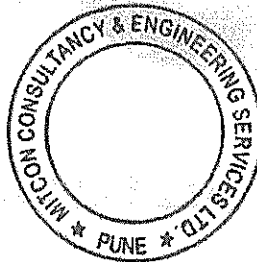
Sr. No.	Test Location	Unit	Readings
01	In front of weigh bridge	dB(A)	59.5
02	End Point of Railway Siding	dB(A)	56.1


REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11278

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Railway siding, Dist-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11278/1
	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	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	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	6.6	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	307.1	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	58.12	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	26.12	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	140.35	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	12.52	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	28.52	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	2.52	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)

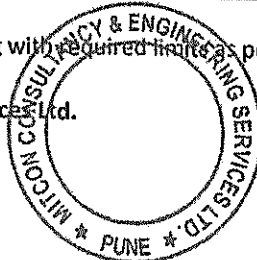
REMARKS / OBSERVATIONS:

- 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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11278

Issue Date: 21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Munsar Railway siding, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11278/2
	Name of Sample	Ground water
	Sample Details	Water sample collected from Near by Pit
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	End Date of Analysis	21/11/2022

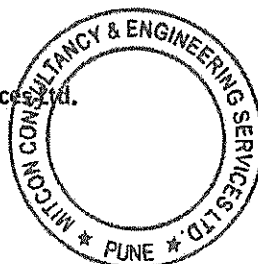
ANALYSIS RESULTS

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	6.1	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	299.7	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	54.23	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	132.52	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	60.23	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	4.56	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coll	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11277/5
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:- Nagpur (M.S)	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Parsoda Village
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 km/hrs.(Avg)	E

RESULT

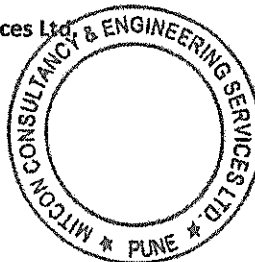
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	60.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	28.8	≤ 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	0.342	≤ 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.

Kudambari
Checked By
(Mrs.Kadambari Deshmukh)



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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11277/6
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:- Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	West Dump site
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 km/ hrs.(Avg)	E

RESULT

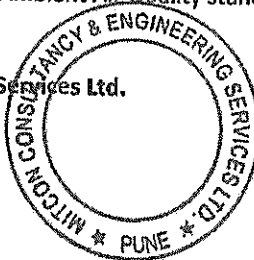
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	64.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	29.7	≤ 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.

K. Deshmukh
 Checked By
 (Mrs. Kadambari Deshmukh)



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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11277/7
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:- Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Pit
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 km/ hrs.(Avg)	E

RESULT

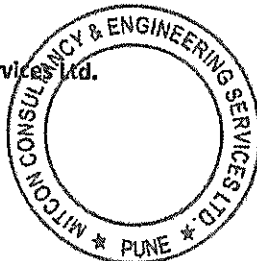
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	13.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	19.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	68.0	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	34.6	≤ 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	0.390	≤ 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.

Checked By 
 (Mrs.Kadambari Deshmukh)



Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address M/s MOIL LIMITED, Parsoda Manganese Mines LI=53.750 Ha Site, Dist:- Nagpur (M.S).	Reference No.	MITCON/2022-23/November/11277/8
	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Mine road (Near Kh. No. 19)
	Monitoring Done By	MITCON
	Date of Analysis	12/11/2022

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	16	34	1440	0.0	8.0 km/hrs.(Avg)	E

RESULT

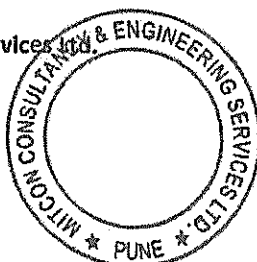
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	61.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	31.4	≤ 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	0.330	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.9	≤ 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.

Kumesth
 Checked By
 (Mrs.Kadambari Deshmukh)



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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

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/11277

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11277/9
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S).	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

READINGS

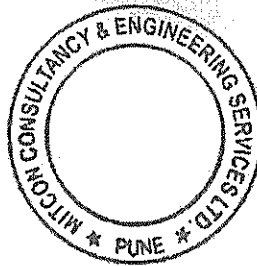
Sr. No.	Test Location	Unit	Readings
01	Parsoda Village	dB(A)	53.1
02	West Dump site	dB(A)	62.0
03	Near Mine Pit	dB(A)	64.8
04	Mine road (Near Kh. No. 19)	dB(A)	59.2


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)

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11277/1
	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	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
End Date of Analysis	21/11/2022	

ANALYSIS RESULTS

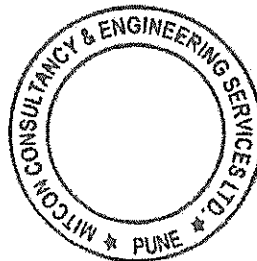
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.18	-	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.8	mg/l	-	IS: 3025 Part 38
03	Chemical Oxygen Demand	52.5	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.9	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	21.5	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	0.28	mg/l	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11277/2
	Name of Sample	Waste Water
	Sample Details	Sedimentation tank
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
End Date of Analysis	21/11/2022	

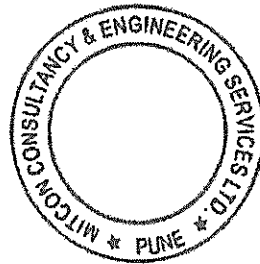
ANALYSIS RESULTS


Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.20		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.2	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	56.0	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	19.4	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	0.33	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11277/3
	Name of Sample	Ground water
	Sample Details	Open Dug well
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
	End Date of Analysis	21/11/2022

ANALYSIS RESULTS

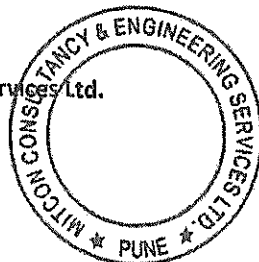
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	286.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	135.22	mg/l	≤ 200	APHA 2340 C, 2-48 to 2-50, 23rd Ed 2017
06	Calcium as Ca	54.23	mg/l	≤ 75	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed. 2017
07	Magnesium as Mg	21.25	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	128.45	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	45.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	20.12	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	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 Collform	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/November/11277

Issue Date:21/11/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S)	Sample Code	MITCON/2022-23/November/11277/4
	Name of Sample	Waste water
	Sample Details	Old Pit
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	10/11/2022
	Date of Sample Receipt	12/11/2022
	Analysis Start Date	12/11/2022
End Date of Analysis	21/11/2022	

ANALYSIS RESULTS

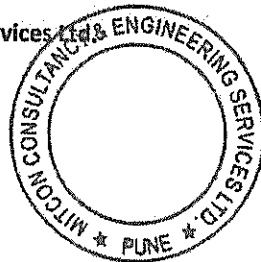
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.23		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.8	mg/l	--	IS: 3025 Part 38
03	Chemical Oxygen Demand	56.1	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
04	Biochemical Oxygen	21.4	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	26.0	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	0.36	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

- This Report is valid for tested sample only.
- This Report shall not be reproduced except in full & with written permission of MITCON.
- This Report should not be used for advertisement / judicial purpose.
- Customer complaint register is available in the laboratory.