Environment Management and Engineering Division (Environmental Laboratory)

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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,	Date of Monitoring	10/11/2022
·	Type of Monitoring	Ambient Air
Munsar Manganese Mines L4=0.970 Ha Site, Dist:-	Test Location	Wahi Tola Village
Nagpur (M.S)	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)	Е

result

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	10.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	15.4	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	56.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	23.3	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	3.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.310	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	3.3	≤ 400	APHA - 401
09	Benzene (C₅H₅)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M³	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- 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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
Munsar Manganese Mines L4=0.970 Ha Site, Dist:-Nagpur (M.S)	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)

SERVICE SUR SERVICES

Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

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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,	Sample Code	MITCON/2022-23/November/11276/1		
	Name of Sample	Ground Water		
	Sample Details	VT Centre Borewell water 1 lit plastic can		
	Container Details			
Munsar Manganese Mines L4=0.970 Ha Site,	Sample Collected By	MITCON		
Dist:-Nagpur (M.S)	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	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	S1 ≤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	Magneslum as Mg	18.25	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
80	Mangnese 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/I	<1	APHA 4500 F- D'4-90 to 4-9123rd Ed 2017
11	Chloride as CI	32.05	mg/l	≤ 250	APHA 4500 CL R 4-75 to 4-76 2224 Ed 2017
12	Sulphate as SO4	10.25	mg/l	≤ 200	APHA 4500 –SO4E, 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	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

(NO) For MITCON Consultance & Engineering Services Ltd. kurperwuh

Checked By

(Mrs. Kadambari Deshmukh)

rized Signatory (Ør.Sandeep Jadhav) Senior Vice President

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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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
Munsar Manganese Mines L2=5.740 Ha Site,	Test Location	Old OCF
Dist:-Nagpur (M.S)	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

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M³	64.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 mlcron	μg/M³	28.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	µg/М³	3.8	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1,0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.354	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	4.3	≤400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL.	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M³	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 Service

kunedu Checked By

(Mrs.Kadambari Deshmukh)

Authorized Signatory Dr. Sandeep Jadhav Sénior vice president

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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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON
Munsar Manganese Mines L2=5.740 Ha Site, Dist:-Nagpur (M.S)		

READINGS

	Sr. No.	Test Location	Unit	Readings
į	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 Barbari bar

(Mrs. Kadambari Deshmukh)



Authorized Signatory Dr. Şandeep Jadhav (Senior Vice President)

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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,	Sample Code	MITCON/2022-23/November/11274/1			
	Name of Sample	Ground Water			
Munsar Manganese Mines L2=5.740 Ha	Sample Details	Old Durga Pit Water 1 lit plastic can MITCON			
	Container Details				
	Sample Collected By				
Site, Dist:-Nagpur (M.S)	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	ADUA 4500 LL A 4 05 00 LE LOCA
02	Total suspended solids	7.3	mg/l	N.S	APHA 4500 H+, A, 4-95, 23rd Ed 2017 APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1 💖	NTU	51	IC: 2025 D - 4 40 / D 4 - 00001
04	Total Dissolved Solids	264.5	mg/l	≤500	IS: 3025 Part-10 (R.A : 2002) APHA 2540 C: 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	122.58	mg/l	≤200	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017 APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	38.62	mg/I	≤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
80	Mangnese 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/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	ADHA 45005 D 4000+ 4 0400 1 7 100
11	Chloride as Cl	30.25	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
12	Sulphate as SO4	12.10	mg/l	≤ 200	APHA 4500 CI, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	5.2	mg/i	≤45	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 1622 (R.A : 2014) IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreabl e	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

• The above water sample is complying with equired limits as per IS 10500:2012. For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

(Dr.Sandeep Jadhav)
Senior Vice President

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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
	Type of Monitoring	Ambient Air
Munsar Manganese Mines L3=25.150 Ha Site, Dist:-	Test Location	Chargaon Village
Nagpur (M.S)	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

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	11.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	µg/M³	15.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	53.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	24.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.240	≤ 2.0	IS 5182
08	Ammonia (ÑH₃)	μg/M³	3.4	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

kurejule 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/11275

Issue Date:21/11/2022

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

READINGS

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

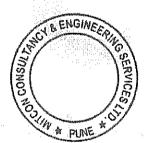
REMARKS / OBSERVATIONS:

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.

kuperuch 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/11275

Issue Date:21/11/2022

Client's Name & Address	Sample Details				
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11275/1			
Munsar Manganese Mines L3=25.150 Ha Site,	Name of Sample	Ground Water			
	Sample Details	Staff Colony Borewell water			
	Container Details	1 lit plastic can			
	Sample Collected By	MITCON			
Dist:-Nagpur (M.S)	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	<u> </u>	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	s 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	Mangnese 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/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	: Alego < 0.1	Mg/I	√% .<1	APHA 4500 F- D 4-90 to 4-9123rd 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/i	≤ 200	APHA 4500 -SO4E, 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/1.00ml	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	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

KS / OBSERVATIONS:

The above water sample is complying with required limits as a er is 10500:2012.

For MITÇON Consultancy & Engineering Services 34.

currentles Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory (ốr.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/11273

Issue Date:21/11/2022

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

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	11.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	16.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	60.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 mlcron	μg/M³	30.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.326	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	4.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

> All above results are within National Ambient Air Quality standards.

> BDL: - Below Detection Limit.

Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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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/11273/6
M/s MOIL LIMITED,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Mine road(Near Work Shop)
	Monitoring Done By	MITCON
Munsar Manganese Mines L1=108.630 Ha Site, Dist:- Nagpur (M.S).	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/	E
		200	4			hrs.(Avg)	

		·			
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	11.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	16.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	61.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	31.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	. 4.2	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.348	≤ 2.0	IS 5182
80	Ammonia (NH₃)	µg/M³	4.8	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/М³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

➤ All above results are within National Ambient AN Owalty standards.

➤ BDL: - Below Detection Limit,

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs.Kadambari Deshmukh)

rized Signatory Dr, Sandeep Jadhav

Sénior vice president

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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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	DSU Plant
Muncon Managanasa Minos I 1-400 (20 II. Cir. Dir.	Monitoring Done By	MITCON
Munsar Manganese Mines L1=108.630 Ha Site, Dist:- Nagpur (M.S).	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/	E
	92 - 22 - 32 - 31 A-4 - 37 - 37 - 37 - 37					hrs.(Avg)	

1000		RESULT			
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	17.9	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	63.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	32.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.3	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.360	3 ≤ 2.0 € 6	****
08	Ammonia (NH ₃)	μg/M³	4.4	≤ 400	IS 5182 APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	± 5	***************************************
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	······································	IS 5182
11	Arsenic (As)	ng/ M³	BDL	<u>≤1</u>	IS 5182
12	Nickel (Ni)	ng/ M³	BDL	≤ 6 ≤ 20	APHA - AAS APHA - AAS

REMARKS/OBSERVATIONS:

> All above results are within National Ambient Air Quality standards. AND BENGINES

➤ BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Service

Checked By

(Mrs.Kadambari Deshmukh)

Authorized Signatory Dr, Sandeep Jadhav Sénior vice president

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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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Pit Top (Mine)
**	Monitoring Done By	MITCON
Munsar Manganese Mines L1=108.630 Ha Site, Dist:- Nagpur (M.S).	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/	Е
			gijing vi	120000000000000000000000000000000000000		hrs.(Avg)	

C- 81-			·		
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	12.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	18.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 mlcron	μg/M³	66.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	30.9	≤60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	4.4	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.368	≤ 2.0	IS 5182
80	Ammonia (NH₃)	μg/M³	5.0	≤ 400	APHA - 401
09	Benzene (C₅H₅)	μg/M³	BDL	≤5	
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL		IS 5182
11	Arsenic (As)	ng/ M³	BDL	<u> </u>	IS 5182
12	Nickel (Ni)	ng/ M³	BDL	≤ 6 ≤ 20	APHA - AAS 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/11273

Issue Date:21/11/2022

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

READINGS

Sr. No.	Test Location		Test Location Unit		<u> </u>	Readings	
01	Admin building	ราช (ค.ศ. 25 กระทั่ง (ค.ศ. 1975) พ. (ค.ศ. 1975)	a Vijaskeliseti		dB(A)	and the Australia	56.7
02	Mine road(Near	Work Shop)			dB(A)		63.8
03	DSU Plant				dB(A)		68.8
04	Pit Top (Mine)	4-34-4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		dB(A)	x	65.9

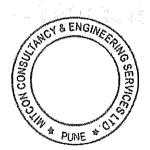
REMARKS / OBSERVATIONS:

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)

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Test Report

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

Issue Date: 21/11/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11273/1		
,	Name of Sample	Ground Water		
Munsar Manganese Mines L1=108.630 Ha Site, Dist:-Nagpur (M.S)	Sample Details	Near Office Borewell Water		
2201 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	govern below to the control of the c	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.11	nig/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	UTM	S1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	256.90	mg/i	≤ 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	Mangnese 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/I	<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 4-9123rd 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 \$04	16.80	mg/l	≤ 200	APHA 4500 SO4E, 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	Aggreable	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.Sandgep Jadhav)

Senior Vice President

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

Issue Date:21/11/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11273/2		
	Name of Sample	Waste Water		
Munsar Manganese Mines L1=108.630 Ha Site,	Sample Details	Mine seepage water		
	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
Dist:-Nagpur (M.S)	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

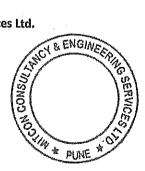
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.23		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.9	mg/l	- 3430	IS: 3025 Part 38
03	Chemical Oxygen Demand	67.8	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	23.1	mg/I	30	IS :3025 (Part 44)
05	Total suspended solids	38.0	mg/l	100	APHA 2540 D,2-70 to 2-71 23 rd Ed 2017
06	Oil and grease	<5	mg/l	100	APHA 5520 B,5-42 to 5-43 23 rd Ed 2017
07	Manganese	0.29	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)



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Quarter October- November- December 2022

Test Report

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

Issue Date:21/11/2022

Client's Name & Address	Name of Sample Waste water Sample Details ETP outlet at workshop Container Details 1 lit plastic can	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11273/3		
	Name of Sample			
Munsar Manganese Mines L1=108.630 Ha Site,	Sample Details	ETP outlet at workshop		
	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
Dist:-Nagpur (M.S)	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

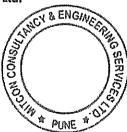
Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25°C	7.21		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.4	mg/l	- 10 20 - 10 10 10	IS: 3025 Part 38
03	Chemical Oxygen Demand	67.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017
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.

kumesell 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/11273

Issue Date:21/11/2022

Client's Name & Address		Sample Details	
M/s MOIL LIMITED,	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	
Munsar Manganese Mines L1=108.630 Ha Site,	Sample Collected By	MITCON	
Dist:-Nagpur (M.S)	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			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

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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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
Munsar Railway siding, Dist:-Nagpur (M.S)	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/	E
	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			sein.		hrs.(Avg)	de.

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	11.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	16.8	≲ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	64.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	29.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.384	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	3.8	≤ 400	APHA - 401
09	Benzene (C₀H₀)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M³	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

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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/11278

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-
		23/November/11278/4
M/s MOIL LIMITED,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	End Point of Railway Siding
3.5 m 15 4.44 m 4.15	Monitoring Done By	MITCON
Munsar Railway siding, Dist:-Nagpur (M.S).	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/	E
- Contract	L	1		<u> </u>	a y like in the	hrs.(Avg)	

		1,000	111177	一一一点"不是什么是是是教育的的是是不是什么	400 Postalistical Applica-
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	17.1	≤80	IS 5182(Part 6)
03	Particulate Matter PM _{10 micron}	µg/M³	62.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	25.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.0	≤ 100	IS 5182
06"	Lead (Pb)	μg/M³	BDL	≤1.0 f	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.360	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	3.8	≤ 400	APHA - 401
09	Benzene (C₅H₅)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	<u>-</u> 3 ≤1	
11	Arsenic (As)	ng/ M³	BDL		IS 5182
12	Nickel (Ni)	ng/ M ³	BDL	≤ 6 ≤ 20	APHA - AAS 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 Sénior vice president

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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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
Munsar Railway siding, Dist:-Nagpur (M.S).	Monitoring Done By	MITCON

READINGS

-	Sr. No.	Test Location	Unit	Readings
-	01	In front of weigh bridge	dB(A)	59.5
Ţ	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.

(Mrs. Kadambari Deshmukh)

SHOON NOON A PUNE * OLIVER

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/11278

Issue Date-21/11/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11278/1		
	Name of Sample	Ground Water		
•	Sample Details	Railway siding at Bore well 1 lit plastic can		
	Container Details			
Munsar Railway siding, Dist:-Nagpur (M.S)	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	51	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/i	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	Mangnese 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/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	<1	APHA 4500 F- D 4-90 to 4-9123rd 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 –SO4E, 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/100mi	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Service I/d.

Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory (Or.Sandeep Jadhav)

Senior Vice President

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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,	Sample Code	MITCON/2022-23/November/11278/2		
	Name of Sample	Ground water		
	Sample Details	Water sample collected from Near by Pit		
w w	Container Details	1 lit plastic can		
Munsar Railway siding, Dist:-Nagpur (M.S)	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

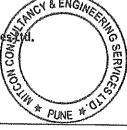
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.23	*	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.1	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03:	Turbidity	<1	NTU	≤1	SC2025 Red 40 (D.A. 2000)
04	Total Dissolved Solids	299.7	mg/l	≤ 500	IS: 3025 Part-10 (R,A : 2002) 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
80	Mangnese as mn	< 0.1	mg/i	< 0.1	APHA 3111 B; 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	132.52	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	1 <1 1 6 %	ABIIA APOGE DI AGO
11	Chloride as Cl	60.23	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
12	Sulphate as SO4	12.25	mg/l	≤ 200	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 4500 – SO4 - E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	4.56	mg/l	<u> </u>	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	I5: 1622 (R.A : 2014)
17	colour	<5	HZ	≤ 5	IS: 1622 (R.A : 2014) IS: 3025 Part-4 (Rev.1, RA 2012)
18	odaur	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services

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/11277		Issue Date:21/11/2022
Client's Name & Address	Reference No.	MITCON/2022- 23/November/11277/5
M/s MOIL LIMITED,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-	Test Location	Parsoda Village
Nagpur (M.S)	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	CPC8 standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	11.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	17.0	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	60.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM25 micron	μg/M³	28.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	2.8	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.342	≤ 2.0	IS 5182
80	Ammonia (NH ₃)	μg/M³	3.3	≤ 400	APHA - 401
09	Benzene (C₀H₀)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	<u> </u>	IS 5182
11	Arsenic (As)	ng/ M³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

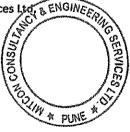
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd. & ENGINEER

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/11277 Issue Date:21/11/2022 Client's Name & Address Reference No. MITCON/2022-23/November/11277/6 M/s MOIL LIMITED, **Date of Monitoring** 10/11/2022

Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S).

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

4 - 17 11 12		. 4.355.	13.15	Control of the Contro	A Washington
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	17.2	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 mlcron	μg/M³	64.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	29.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.8	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.364	≤ 2.0	IS 5182
80	Ammonia (NH₃)	μg/M³	4.0	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL		IS 5182
11	Arsenic (As)	ng/ M³	BDL	<u> </u>	IS 5182
12	Nickel (Ni)	ng/M³	BDL	≤ 6 ≤ 20	APHA - AAS APHA - AAS

REMARKS/OBSERVATIONS:

> All above results are within National Amblent Air Quality standards.

➢ BDL: - Below Detection Limit.

(Mrs.Kadambari Deshmukh)

TOT & ENGINEERIN For MITCON Consultancy & Engineering Services Ltd.

| LUD collected By | Checked By |

zed Signatory Dr. Sandeep Jadhav Senior vice president

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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,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Mine Pit
Parsoda Manganese Mines L1=53.750 Ha Site, Dist;-	Monitoring Done By	MITCON
Nagpur (M.S).	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/	E
			<u> </u>			hrs.(Avg)	

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Trans Name 1
01	Sulphur Dioxide (SO ₂)	μg/M³	13.2	- 100 fg - 10 Managaran 15	Test Method
02	Oxides of Nitrogen (NO ₂)	μg/M³		≤80	IS 5182(Part 2)
03	Particulate Matter PM10 micron		19.5	≤80	IS 5182(Part 6)
	Particulate Watter Piving micron	μg/M³	68,0	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	34.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	4.0	≤ 100	IC E400
06	Lead (Pb)	μg/M³	BDL		IS 5182
07	Carbon Monoxide (CO)	mg/M³	0.390	≤ 1.0	APHA - AAS
08	Ammonia (NH ₃)	<u> </u>	·	≤ 2.0	IS 5182
09	Benzene (C₅H₅)	μg/M³	4.2	≤ 400	APHA - 401
		μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	<u></u> ≤6	· · · · · · · · · · · · · · · · · · ·
12	Nickel (Ni)	ng/M³	BDL		APHA - AAS
		07 141	L UVE	≤ 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)

CY & ENGINEE

Authorized Signatory Dr. Sandeep Jadhay Senior vice president

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Test Report

Report Number: MITCON/2022-23/November/11277		Issue Date:21/11/2022
Client's Name & Address	Reference No.	MITCON/2022-
		23/November/11277/8
M/s MOIL LIMITED,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Air
	Test Location	Mine road (Near Kh. No. 19)
	Monitoring Done By	MITCON
Parsoda Manganese Mines L1=53.750 Ha Site, Dist:- Nagpur (M.S).	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)	Ē

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	16.4	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	61.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	31.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.6	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.330	≤ 2.0	IS 5182
- 08	Ammonia (NH3)	μg/M³	3.9	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	
11	Arsenic (As)	ng/ M ³	BDL	<u>≤6</u>	IS 5182
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services and

Checked By

(Mrs.Kadambari Deshmukh)

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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/11277

Issue Date:21/11/2022

Client's Name & Address	Reference No.	MITCON/2022-23/November/11277/9
M/s MOIL LIMITED,	Date of Monitoring	10/11/2022
	Type of Monitoring	Ambient Noise
Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S).	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
23/19/204	the relation of the company of the c	 	

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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Environment Management and Engineering Division (Environmental Laboratory)

Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005, Ph. No. 66289405/400, email: emelab@mitconindia.com

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

issue Date:21/11/2022

Test Report

Client's Name & Address Sample Details M/s MOIL LIMITED. Sample Code MITCON/2022-23/November/11277/1 Name of Sample Waste Water Sample Details Mine Pit Water **Container Details**

Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S)

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

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	TOTAL STATE OF	5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	3.8	mg/i	- 3000	IS: 3025 Part 38
03	Chemical Oxygen Demand	52.5	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Blochemical Oxygen	21.9	mg/!	30	IS :3025 (Part 44)
05	Total suspended solids	21.5	mg/i	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/I	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)



-Signatory (Dr.Sandeep Jadhav) Senior Vice President

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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

	Sample Details				
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11277/2			
	Name of Sample	Waste Water			
	Sample Details	Sedimentation tank			
	Container Details	1 lit plastic can			
Parsoda Manganese Mines L1=53.750 Ha Site,	Sample Collected By	MITCON			
Dist:-Nagpur (M.S)	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

Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
pH at 25°C	7.20	andar antarata da santar da sa		APHA 4500 H+ A, 4-95, 23rd Ed. 2017
Dissolved Oxygen	2.2	mg/l		IS: 3025 Part 38
Chemical Oxygen Demand	56.0	mg/l	250	APHA 5220 C;5-20 to 5-21 23rd Ed 2017
Biochemical Oxygen	21.3		2 T T T T T T T T T T T T T T T T T T T	IS :3025 (Part 44)
Total suspended solids			200 000	APHA 2540 D,2-70 to 2-71 23 rd Ed 2017
Oil and grease				APHA 5520 B,5-42 to 5-43 23 rd Ed 2017
Manganese		SHAME AND THE SHAME A FE	10 %	APHA 3111 B,3-18 to 3-21 23 rd Ed 2017
	pH at 25°C Dissolved Oxygen Chemical Oxygen Demand Biochemical Oxygen Total suspended solids Oil and grease	pH at 25°C 7.20 Dissolved Oxygen 2.2 Chemical Oxygen Demand 56.0 Biochemical Oxygen 21.3 Total suspended solids 19.4 Oil and grease <5.0	pH at 25°C 7.20 Dissolved Oxygen 2.2 mg/l Chemical Oxygen Demand 56.0 mg/l Biochemical Oxygen 21.3 mg/l Total suspended solids 19.4 mg/l Oll and grease <5.0 mg/l	Limit as per Consent Condition

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

KUDEBULLA Checked By

(Mrs. Kadambari Deshmukh)



Authorized (Dr.Sandeep Jadhav) Senior Vice President

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Quarter October- November- December 2022

Test Report

Report Number: MITCON/2022-23/November/11277 Iceua Data-21/11/2022

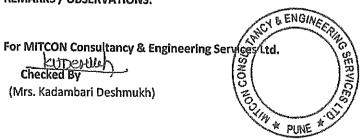
Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11277/3		
Parsoda Manganese Mines L1=53.750 Ha Site,	Name of Sample	Ground water		
	Sample Details	Open Dug well		
	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
Dist:-Nagpur (M.S)	Method 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 sollds	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/i	≤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
80	Mangnese 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/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/i	<1	APHA 4500 F- D 4-90 to 4-9123rd 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 –SO4E, 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 (RA: 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

(Mrs. Kadambari Deshmukh)



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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Issue Date:21/11/2022 Client's Name & Address Sample Details M/s MOIL LIMITED, 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

Parsoda Manganese Mines L1=53.750 Ha Site, Dist:-Nagpur (M.S)

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	<u>-</u> 2022	IS: 3025 Part 38
03	Chemical Oxygen Demand	56.1	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd 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 23 rd 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/I	2	APHA 3111 B,3-18 to 3-21 23rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services (148 ENGINEER

14UDEHUUCH Checked By

(Mrs. Kadambari Deshmukh)

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Authorized Signatory (Dr. Sandeep Jadhay) Sénior Vice President

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