Environment Management and Engineering Division (Environmental Laboratory)

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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

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

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/	ENE
					1087	hrs.(Avg)	

<u>result</u>

	3.7,73(1971), 11,771(1971)	ACTUAL DESCRIPTION	1977		\$5.07\$\$\$\$\$\$\$.
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	15.9	"≥ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	54.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 mlcron	μg/M³	24.0	≤ 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/M ³	0.310	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	3.6	≤ 400	APHA - 401
09	Benzene (C₅H₅)	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/ 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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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

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

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm) ·	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

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	15.3	<u>≤ 80</u>	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	52.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5 micron}	μg/M³	22.4	**≤60/^	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	3.2	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.296	≤2.0	IS 5182
08	Ammonia (NH ₃)	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.

For MITCON Consultancy & Engineering Servi

KUTDERWA 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/11281

Issue Date:28/11/2022

Reference No.	MITCON/2022- 23/November/11281/7
Date of Monitoring	18/11/2022
Type of Monitoring	Ambient Air
Test Location	Mahuli Village
Monitoring Done By	MITCON
Date of Analysis	21/11/2022
	Date of Monitoring Type of Monitoring Test Location Monitoring Done By

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

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)	μ g/M³	17.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	hg/W ₃	59.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5 micron}	μg/M³	32.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.4	≤100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.318	≤ 2.0	IS 5182
08	Ammonia (NĤ₃)	μg/M³	3.7	≤ 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.

For MITCON Consultancy & Engineering Servi

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(Mrs.Kadambari Deshmukh)

Authorized Signatory Dr. Sandgep Jadhav Senior vice president

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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

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

OBSERVATION

Ambient Temp. ℃	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/	ENE
		71 (100 and 100 and 10			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hrs.(Avg)	Evens.

Sr. No.	Description	Unit	Results	CPCB standard	Total Brand and
		Promotion de la companya del la companya de la comp			Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	16.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	57.7	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	30.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	3,6	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.312	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	3.8	≤ 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 Art Chieffly standards.

➤ BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Se

kuneille **Checked By**

(Mrs.Kadambari Deshmukh)

Authorized-Signatory Dr. Sandeep Jadhav Senior vice president

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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

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

READINGS

Sr. No.	Test Location	Unit	Readings		
01	Pench River Bank ·		dB(A)	56.3	
02	500 m from River Bank		dB(A)	53.9	
03	Mahuli Village		dB(A)	was Alekistor	50.1
04	Kalaphata Village		dB(A)	1969 (23 (22 (14)	47.7
and a construct Annual	Station Values				

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.

kunedli Checked By

(Mrs. Kadambari Deshmukh)



Authorized S Dr. Sandeep Jadhav (Senior Vice President)

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Test Report

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

Issue Date:28/11/2022

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.20		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	8.7	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03 🖖	Turbidity	<1	NTU	¹⁰⁰ ≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	277.9	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	135.25	mg/l	≤200	APHA 2340 C 2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	41.25	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed , 2017
07	Magnesium as Mg	18.25	mg/l	≥≤30	APHA 3500 Mg B, 3-86 , 23rd Ed, 2017
08	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	122.52	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	35.17	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.52	mg/l	≤ 200	APHA 4500 SO4 E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	7.25	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services

Checked By

(Mrs. Kadambari Deshmukh)

Authorized 3 (Dr.Sandeep Jadhav) Seglor Vice President

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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

Client's Name & Address		Sample Details
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11281/2
1140 112022 2001000 2007	Name of Sample	Ground Water
Kalaphata sand lease 8.000 Ha Site, Dist:-Nagpur	Sample Details	500 m from River bank
LS)	Container Details	1 lit plastic can
,	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	18/11/2022
	Date of Sample Receipt	21/11/2022
	Analysis Start Date	21/11/2022
	End Date of Analysis	28/11/2022

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.20	result i sa miñ	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended	8.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU 🌯	≤1	IS: 3025 Part-10 (R.A : 2002)
D4**	Total Dissolved Solids	234.5	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	125,25	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	45.12	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	18.52	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	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	118.52	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	27.83	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.92	mg/l	≤ 200	APHA 4500 -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	5.12	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

(S / OBSERVATIONS:

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

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For MITCON Consultancy & Engineering Servi

(Mrs. Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senjor Vice President

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Quarter October- November- December 2022

Test Report

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

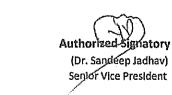
Issue Date:28/11/2022

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.30	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	1 8.8	mg/I	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	NTU ≤1 IS: 3025 Part-10 (R,A:	
04	Total Dissolved Solids	302.3	mg/l	≨ ≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	148.25	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	24.25	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	15.12	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed; 2017
08	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	131.08	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	34.25	mg/i	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.25	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	5.25	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)
EMAR	KS / OBSERVATION	5:	A.R.C.Y	& ENGINEERING	
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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

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

<u>ANALYSIS RESULTS</u>

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	*	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/I	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	UTN S	≤1	IS: 3025 Part-10 (R.A ; 2002)
04	Total Dissolved Solids	309.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	152.25	mg/l	≤200	APHA 2340 C 2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	48.25	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed 2017
07	Magnesium as Mg	12.25	mg/l	≦ 30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
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	140.25	Mg/i	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
· 10 ·	Fluoride as F	6% <0.1	Mg/I	° <1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	ే52.25	mg/l	≤ 250	APHA 4500 Cl, 8, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	20,25	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	4.52	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100mi	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:

For MITCON Consultancy & Engineering Services

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory (Dr. Sandeep Jadhav) Senior Vice President

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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

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

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/	ENE
V-	- and and - 2000				<u>jan</u>	hrs.(Avg)	

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	12.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	18.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 mlcron	μg/M³	62.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	27.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	3.7	≤ 100	IS 5182
06	Lead (Pb)	μg/M³	BDL	≤1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.404	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M³	4.1	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M³	BDL	<u> </u>	IS 5182
11	Arsenic (As)	ng/ M³	BDL	 	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)

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ON CONCOUNTERING SERVICES

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Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Test Report

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

Issue Date:28/11/2022

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

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. ℃	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

	42.00 A	365.11	1.2000 1.000	4.65 (E.F.) 4.000 (E.M.) 4.000 (E.M.)	ek alabatiki d	
Sr. No.	Description	Unit	Results	CPCB standard	Test Method	
01	Sulphur Dioxide (SO₂)	μg/M³	11.9	≤80	IS 5182(Part 2)	
.02	Oxides of Nitrogen (NO ₂)	μg/M³	17.0	≤ 80	IS 5182(Part 6)	
03	Particulate Matter PM10 mlcron	μg/M³	61.4	≤ 100	IS 5182 (Part 23)	
04	Particulate Matter PM _{2.5 micron}	μg/M³	26.9	≤ 60	USEPA 40 CFRCH	
05	Ozone (O ₃)	μg/M³	3.2	≤ 100	IS 5182	
. 06	Lead (Pb)	μg/M³	BDL	≤ 1.0	APHA - AAS	
07	Carbon Monoxide (CO)	mg/M³	0.346	≤2.0	IS 5182	
08	Ammonia (NH₃)	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/ M ³	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. ANCY & ENGIN

➤ BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services

kuroesulb **Checked By**

(Mrs.Kadambari Deshmukh)

Authorizèd Dr. Sandeep Jadhav Senior vice president

PUNE &

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Test Report

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Issue Date:28/11/2022

Reference No.	MITCON/2022- 23/November/11279/8
Date of Monitoring	18/11/2022
Type of Monitoring	Ambient Air
Test Location	Near Haul Road
Monitoring Done By	MITCON
Date of Analysis	21/11/2022
	Date of Monitoring Type of Monitoring Test Location Monitoring Done By

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO₂)	μg/M³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M³	18.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 mlcron	hB/W ₃	66.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	29,8	≤ 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	0.414	≤ 2.0	IS 5182
08	Ammonia (NH₃)	μg/M³	4.3	≤ 400	APHA - 401
09	Benzene (C6H6)	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. STANCY & ENGIN

➢ 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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Test Report

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

Issue Date:28/11/2022

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

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/	ENE
	1 44 H 3 50 1 3 44 44 5 - 1		<u> </u>	Landa Santa Sa	1 1 1 1 1 1	hrs.(Avg)	

RESULT

1 2 - 1-22 - 20 - 20 - 20 - 20 - 20 - 20	300 Aug 200 Aug	80 (100 per 100 per 10	·	1. S. C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	 345 \$3412/3884
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	11.0	≤ 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	56.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	24.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M³	3.2	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.302	≤ 2.0	IS 5182
80	Ammonia (NH ₃)	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		IS 5182
11	Arsenic (As)	ng/M³	BDL	<u>31</u> ≤6	
12	Nickel (Ni)	ng/ M³	BDL	<u>≤</u> 20	APHA - AAS APHA - AAS

REMARKS/OBSERVATIONS:

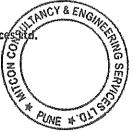
> All above results are within National Ambient Air Quality standards.

▶ BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services

Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory
Dr. Sandeep Jadhav
Senjor vice president

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Test Report

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

Issue Date:28/11/2022

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

READINGS

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

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory Dr. Sandeep Jadhav (Senior Vice President)

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Test Report

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

Issue Date:28/11/2022

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.21	Sidescare	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	6.6	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	245.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	122.25	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	32.12	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	10.13	mg/l	≤ 30	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	Mangnese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as	118.25	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
	Caco3	1 No. 141	Transfer of the contract of th	Ar Law Service	A STATE OF THE STA
10	Fluoride as F	< 0.1	Mg/I	√n<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	25.12	mg/l	≤ 250	APHA 4500 Ci, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	13.25	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	6.45	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

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For MITCON Consultancy & Engineering Serv

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/11279

Issue Date:28/11/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/November/11279/2		
	Name of Sample	Ground Water		
Kandri Manganese Mines L1=83.060 Ha Site,	Sample Details	Officer Colony water supply		
Dist:-Nagpur (M.S)	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	18/11/2022		
	Date of Sample Receipt	21/11/2022		
	Analysis Start Date	21/11/2022		
	End Date of Analysis	28/11/2022		

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7,19	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	7.9.a	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	246.2	mg/l	≤500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	130.25	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	58.25	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 25rd Ed. 2017
07	Magnesium as Mg	24.15	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	125.25	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	24.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.12	mg/l	≤ 200	APHA 4500 –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	6,29	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

(Mrs. Kadambari Deshmukh)

PUNE #

horized Signatory (Dr.Sandeep Jadhav)

Senior Vice President

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Quarter October- November- December 2022

Test Report

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

Issue Date:28/11/2022

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

ANALYSIS RESULTS

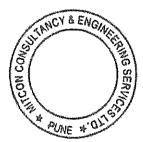
Sr. No.	Characteristic			Permissible Limit as per Consent Condition	Test Methods	
01	pH at 25°C	7.12		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017	
02	Dissolved Oxygen	2,4	mg/l	7	IS: 3025 Part 38	
03	Chemical Oxygen Demand	64.0	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017	
04	Biochemical Oxygen	20.0	mg/l	30	IS:3025 (Part 44)	
05	Total suspended solids	32.1	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017	
06	Oll and grease	< 5.0	mg/l	10	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 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/11279

Issue Date:28/11/2022

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

ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	Permissible Limit as per Consent Condition	Test Methods
01	pH at 25℃	7.17		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017
02	Dissolved Oxygen	2.9	mg/l		IS: 3025 Part 38
03	Chemical Oxygen Demand	46.3	mg/l	250	APHA 5220 C,5-20 to 5-21 23 rd Ed 2017
04	Biochemical Oxygen	18.7	mg/l	30	IS :3025 (Part 44)
05	Total suspended solids	34.8	mg/l	100	APHA 2540 D,2-70 to 2-71 23 rd Ed 2017
06	Oil and grease	<5	mg/l	10	APHA 5520 B,5-42 to \$-43 23rd Ed 2017
07	Manganese	0.31	mg/l	2	APHA 3111 B,3-18 to 3-21 23 rd Ed 2017

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Test Report

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

Issue Date:28/11/2022

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

ANALYSIS RESULTS

Sr. No.	Characteristic	Results Unit		Permissible Limit as per Consent Condition	Test Methods	
01	pH at 25°C	7.18		5.5 to 9.0	APHA 4500 H+ A, 4-95, 23rd Ed. 2017	
02	Dissolved Oxygen	2.9	mg/l		IS: 3025 Part 38	
03	Chemical Oxygen Demand	78.9	mg/l	250	APHA 5220 C,5-20 to 5-21 23rd Ed 2017	
04	Biochemical Oxygen	21.5	mg/I	30	IS :3025 (Part 44)	
05	Total suspended solids	43.2	mg/l	100	APHA 2540 D,2-70 to 2-71 23rd Ed 2017	
06	Oll and grease	6.2	mg/l	10	APHA 5520 B,5-42 to 5-43 23rd Ed 2017	
07	Manganese	0.42	mg/I	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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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/11280

Issue Date:28/11/2022

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

OBSERVATION

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/	ENE
2	Regional Section Co.	Company Section Section Association again	of magnification		2,327 %	hrs.(Avg)	

Sr. No.	Description	Únit	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	17.6	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	67.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	33.9	≤ 60 ⊜	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M³	4.2	≤ 100	IS 5182
06	Lead (Pb)	μg/М³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M³	0.410	≤ 2.0	IS 5182
08	Ammonia (NH3)	μg/M³	4.3	≤ 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

Kunesul Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep Jadhav Senior vice president

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Test Report

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

Issue Date:28/11/2022

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

OBSERVATION

Amblent Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
29	29	20	54	1440	0.0	7.0 km/ hrs.(Avg)	ENE

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M³	12.1	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M³	17.0	≤80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M³	59.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 mlcron	μg/M³	30.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O₃)	μg/M ³	4.0	≤ 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 (NH ₃)	μg/M³	4.2	≤ 400	APHA - 401
09	Benzeпe (С₅Н ₆)	μg/M³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	<u> </u>	
11	Arsenic (As)	ng/M³	BDL	<u>≤1</u> ≤6	IS 5182
12	Nickel (Ni)	ng/ M³	BDL	≤ 20	APHA - AAS APHA - AAS

REMARKS/OBSERVATIONS:

All above results are within National Ambient Air Quality standards.

➤ BDL: - Below Detection Limit.

Checked By

(Mrs.Kadambari Deshmukh)

For MITCON Consultancy & Engineering Services Ltd.

Authorized Signatory Dr. Sandeep Jadhay Senior vice president

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Test Report

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

Issue Date:28/11/2022

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

READINGS

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

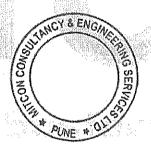
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

Dr. Sandeep Jadhav

(Senior Vice President)

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Test Report

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

Issue Date:28/11/2022

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.22	-	6.5 to 8.5	
02	Total suspended solids	7.4	mg/I	0.3 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017 APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	242 (25) (25) (25) (15) (15) (25)	7 1760 (6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
04	Total Dissolved Solids	304.1	mg/l	<u>≤1</u>	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO3	145.02	mg/I	≤ 500 ≤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	45.25	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	22.12	mg/l	30 ≥	APHA 3500 Mg B, 3-86 , 23rd Ed. 2017
08	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/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/I	â<1	
11	Chloride as Cl	57.12	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		APHA 4500 –SO4E, 4-199 TO 4-200, 23rd Ed 2017
14	Nitrate as NO3	6.25	mg/l	≤0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
15	E.coli	Absent	MPN/100ml	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5		Absent	IS: 1622 (R.A : 2014)
		``	HŽ	≤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 in fitting per IS 10500:2012.

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/11280

Issue Date:28/11/2022

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

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	11.2	mg/f	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	S1	
04	Total Dissolved Solids	312.4	mg/l	≤500	IS: 3025 Part-10 (R.A : 2002)
05	Total Hardness as CaCO3	155.25	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	54.25	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magneslum as Mg	12.25	mg/l	≤30	APHA 3500 Mg B, 3-86 , 23rd Ed 2017
09	Mangnese as mn	<0.1	mg/l	₹0.1	*APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
10	Total Alkalinity as Caco3	134.25	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
11	Fluoride as F	< 0.1	Mg/i	<1	ADUA 4500 F. D.4.50 L. A. COOK
12	Chloride as Cl	23,25	mg/l	≤ 250	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
13	Sulphate as SO4	11.25	mg/l	≤ 200	APHA 4500 CI, B, 4-75 to 4-76, 23rd Ed 2017
14	Iron as Fe	< 0.05	mg/i	≤0.3	APHA 4500 – SO4 – E, 4-199 TO 4-200, 23rd Ed 2017
15	Nitrate as NO3	4,48	mg/l	<u>30.5</u> ≤45	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
16	E.coli	Absent	MPN/100ml	Absent	APHA 4500 NO3-B,4-127 23rd Ed 2017
1.7	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
18	colour	<5	HZ	Ausent ≤5	IS: 1622 (R.A : 2014) IS: 3025 Part-4 (Rev.1, RA 2012)
09	odour	Aggreable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

Checked By

(Mrs. Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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